

APPALACHIAN STATE UNIVERSITY

Undergraduate Bulletin 2012–2013

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The University

Appalachian's Mission

Established in 1899 as Watauga Academy, Appalachian State University has evolved into a preeminent university located in a unique, rural mountain environment. As a member of the University of North Carolina, Appalachian's fundamental mission is to discover, create, transmit, and apply knowledge to address the needs of individuals and society. This mission is achieved by providing undergraduate students a rigorous liberal education that emphasizes transferable skills and preparation for professional careers; offering graduate students distinctive, relevant programs; maintaining a faculty whose members serve as excellent teachers and scholarly mentors for their students and who produce high levels of scholarship and creative activities. Appalachian recognizes that the success of the university depends upon the achievement and cooperation of a diverse community of students, faculty, and staff and strives to implement policies and allocate resources accordingly. We accept our responsibility to be actively involved in addressing the educational, economic, cultural, and societal needs of the changing region, state, nation, and world. As a publicly funded institution, Appalachian is committed to accomplishing its initiatives through efficient and effective resource utilization.

— *The University of North Carolina Board of Governors (2009)*

Appalachian State University: A History of Service to Students

The Desire to Educate

When Blanford B. Dougherty and his brother Dauphin D. Dougherty founded Watauga Academy in 1899 with just 53 students enrolled in three grades, they were motivated by a driving desire to educate teachers for the mountains of Northwest North Carolina. Rural mountain communities had not had access to or really much use for education beyond grade school. Many parents were indifferent about educating their children, and farming left little time for school. But the growth of a national public education movement influenced the success of Watauga Academy. At the turn of the century, modernizing America needed educated citizens and trained teachers. The demand for secondary school teachers had burgeoned since the civil war as the number of high schools and students increased.

Being astute, D.D. Dougherty was convinced that the state would fund institutions established to train teachers needed by the state. So in 1903, he drafted a bill for the N.C. Legislature funding a state teachers' training school in Boone. He traveled to Raleigh by horse and by train in January 1903, and with determination and skilled persuasion, won over the state legislature by one vote. Watauga Academy became Appalachian Training School for Teachers and opened its doors on October 5th with \$2,000 available from the state. At that time 325 students were registered.

B.B. Dougherty continued to recruit students, to solicit funds from local sources and the state, and to build facilities needed to accommodate the students. In 1929, the school became a four-year, degree granting institution named Appalachian State Teachers' College. Over 1,300 students were enrolled in the Bachelor of Science degree programs for primary grades education, physical education, math, English, science, and history.

Appalachian attained national standards by becoming accredited by the American Association for Teacher Education in 1939, and the Southern Association of Colleges and Schools in 1942. Qualified, dedicated faculty were attracted to teaching at Appalachian and helped build its reputation as an excellent institution for the preparation of teachers.

Enrollments dropped during World War II, as men enlisted and were drafted but dramatically increased when returning veterans were supported by funds to return to school (the G.I. Bill). Older, more experienced students changed the character of the student body and campus life.

Growing Into a University

Dr. Dougherty retired, and leadership between 1955 and 1969 came from Dr. William H. Plemmons who did much to shape Appalachian's growth. He provided respected academic leadership and a new vision of what Appalachian could be. He focused on building new facilities, as the major structures on campus were out of date, in disrepair, and inadequate for an enrollment of 1,500 students. During his administration, 24 buildings were added, and enrollment grew to nearly 5,000 resident students. A master plan was created for rebuilding and expanding the campus.

Appalachian was transformed from a single-purpose teacher's college into a multipurpose regional university. Appalachian State Teacher's College became Appalachian State University in 1967 along with other state institutions like Western Carolina University and East Carolina University. This phenomenon occurred all over the country as the demand for higher education among the "baby-boomers" exploded and states rushed to establish new colleges and universities or to expand existing institutions.

Appalachian experienced a doubling of enrollments during the 1970's to about 9,500 and a growth in faculty to 550, two-thirds of whom held the Ph.D. degree. This was possible because of increased federal funding for numerous programs, federal support for student loans, and generous financial support from the State of North Carolina. The idea of every qualified high school graduate attending college seemed within reach, and this changed the landscape of Appalachian and American higher education.

The University

National Recognition

Dr. Herbert Wey succeeded Dr. Plemmons in 1969, first as president, and then in 1971 as chancellor. Chancellor Wey's ten years as the head of Appalachian brought phenomenal growth, marked by innovation and change. Wey took advantage of the favorable conditions he encountered to significantly change the direction and character of Appalachian. He could do this because outside funding for experimental programs amounted to millions of dollars and also because the lines of authority in the new University of North Carolina system were not yet clear, giving him a freedom of movement.

Dr. Wey used this window of opportunity to introduce innovations that won Appalachian its first national recognition as an institution of change. He started the student teacher program that continues today. He founded the College of Business which grew so rapidly, its development had to be curtailed. He reduced the number of required courses so that students could experiment with more elective courses. During this time, Appalachian acquired the Loft in New York City and the Appalachian House in Washington, D.C. for faculty and students to use. Watauga College was born. Wey also approved the active recruitment of minority students recommended by a number of concerned faculty. And the Bachelor of Arts degree was added to those offered by the University. Campus during this time was characterized by outstanding young teachers and exceptionally well qualified students.

Quality and Diversity

Dr. John E. Thomas, the next chancellor, was an engineer, a lawyer, and a manager. He was interested in quality control at Appalachian, and he supported high quality changes and a broadening of influence and scope. Committed to the master plan of controlled growth to a maximum resident enrollment of 10,000 students, Chancellor Thomas focused on recruiting a first-rate faculty, most of whom had either the Ph.D. or the terminal degree in their field. Dr. Thomas strengthened attention to undergraduate education and supported review of required courses. Cultural life on campus broadened, marked by well-known, dynamic performers, concerts, theatre, recitals, and speakers. Dr. Thomas was interested in technology and focused on strengthening the University's communications infrastructure. He supported international studies and education, and during this time, exchange programs were set up with campuses in countries including China, Germany, and Costa Rica.

The results of these progressive changes have been regular recognition of Appalachian State University in national publications, e.g., *U.S. News and World Report*, as one of the outstanding comprehensive universities in the Southeast and nation.

Dr. Francis T. Borkowski succeeded Dr. Thomas in 1993. Chancellor Borkowski, whose tenure was marked by still greater emphasis on campus cultural life, met with remarkable success in attracting private support for his efforts on behalf of arts programs and facilities. In addition to emphasizing the goal of diversifying Appalachian's student body and faculty, he presided over the creation of ground-breaking partnerships with two-year colleges in the region, strengthened Appalachian's affiliations with other universities around the globe, and, like his predecessors, practiced a decidedly student-centered administrative philosophy. During this period, Appalachian not only maintained its customary place on the list of outstanding comprehensive universities annually identified by such publications as *U.S. News and World Report* but was named *Time Magazine's* College of the Year in 2001.

A New Century

Upon Chancellor Borkowski's return to the faculty, Provost Harvey R. Durham served as Interim Chancellor for 2003-2004. Given his 38 years of experience on the campus and the universal respect with which he was regarded, Dr. Durham was the ideal figure to keep Appalachian on its upward trajectory while a new Chancellor was sought.

The search concluded close to home, with the appointment of Dr. Kenneth E. Peacock, Acting Provost and former Dean of the Walker College of Business, as the sixth Chief Executive of Appalachian State University. Chancellor Peacock's contagiously ambitious vision for the university is already manifesting itself in an outpouring of new program initiatives, particularly in the field of allied health, and the energetic exploration of fresh sources of support for the multifaceted mission of the institution. By every indication, Chancellor Peacock's leadership will keep Appalachian true to its tradition of being a student-focused institution responsive to the needs of North Carolina.

History of the University of North Carolina System

In North Carolina, all the public educational institutions that grant baccalaureate degrees are part of the University of North Carolina. The multi-campus state university encompasses 16 such institutions, as well as the NC School of Science and Mathematics, the nation's first public residential high school for gifted students. Chartered by the North Carolina General Assembly in 1789, the University of North Carolina 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.

Additional institutions of higher education, diverse in origin and purpose, began to win sponsorship from the General Assembly beginning as early as 1877. Five were historically black institutions, and another was founded to educate American Indians. Some began as high schools. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

The University

The 1931 session of the 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, legislation was passed 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 (now the University of North Carolina School of the Arts), Pembroke State University (now the University of North Carolina at Pembroke), Western Carolina University, and Winston-Salem State University. In 1985, the NC School of Science and Mathematics was declared an affiliated school of the University; in July 2007, NCSSM by legislative action became a constituent institution of the University of North Carolina. All the schools and universities welcome students of both sexes and all races.

The UNC Board of Governors is the policy-making body legally charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." It elects the president, who administers the University. The 32 voting members of the Board of Governors are elected by the General Assembly for four-year terms. Former board chairmen and board members who are former governors of North Carolina may continue to serve for limited periods as non-voting members *emeriti*. The president of the UNC Association of Student Governments or that student's designee is also a non-voting member.

Each of the UNC campuses (listed below) 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 university 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 UNC School of the Arts has two additional *ex-officio* members; and the NC School of Science and Mathematics has a 27-member board as required by law.) Each board of trustees holds extensive powers over academic and other operations of its campus on delegation from the Board of Governors.

Appalachian State University	University of North Carolina at Chapel Hill
East Carolina University	University of North Carolina at Charlotte
Elizabeth City State University	University of North Carolina at Greensboro
Fayetteville State University	University of North Carolina at Pembroke
North Carolina Agricultural and Technical State University	University of North Carolina at Wilmington
North Carolina Central University	University of North Carolina School of the Arts
North Carolina School of Science and Mathematics	Western Carolina University
North Carolina State University	Winston-Salem State University
University of North Carolina at Asheville	

In addition to its teaching role, the University of North Carolina has a long-standing commitment to public service. The UNC Center for Public Television, the UNC Health Care System, the cooperative extension and research services, nine area health education centers, and myriad other University programs and facilities reap social and economic benefits for the state and its people. For additional information, go to www.northcarolina.edu.

Accreditation

Institutional Accreditation

Appalachian State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, master's, intermediate, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of the university. Contact information for the Commission on Colleges is provided to allow interested constituents to: (1) learn about the accreditation status of the institution, (2) file a third-party comment at the time of the institution's decennial review, or (3) file a complaint against the institution for alleged non-compliance with a standard or requirement. Normal inquiries about the institution, such as admission requirements, financial aid, educational programs, and educational support services, should be addressed directly to Appalachian State University and not to the Commission's office.

Disciplinary Accreditation

In addition to this comprehensive accreditation, other special accreditation by appropriate agencies includes:

- AACSB International -The Association to Advance Collegiate Schools of Business
- Accreditation Council for Education in Nutrition and Dietetics
- American Association of Family and Consumer Science (undergraduate)

The University

American Chemical Society (undergraduate)
Commission on Accreditation of Athletic Training Education
Commission on Accreditation for Marriage and Family Therapy Education
Commission on Collegiate Nursing Education
Computing Accreditation Commission of the Accreditation Board for Engineering and Technology
Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American
Speech-Language-Hearing Association (ASHA)
Council for the Accreditation of Counseling and Related Education Programs
Council on Accreditation for Recreation, Park Resources and Leisure Services
Council for Interior Design Accreditation
Council on Social Work Education
National Association of School Psychologists
National Association of Schools of Art and Design Commission on Accreditation
National Association of Schools of Music
National Association of Schools of Public Affairs and Administration
National Association of Schools of Theatre
National Council for Accreditation of Teacher Education
North Carolina Department of Public Instruction

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

Academy of Nutrition and Dietetics
American Association of Colleges of Nursing
American Association of Colleges for Teacher Education
American Association for Marriage and Family Therapy
American Association of University Women
American Council on Education
American Counseling Association
American Music Therapy Association
American Speech-Language-Hearing Association
Association of Collegiate Schools of Planning
Association for Gerontology in Higher Education
Association for Library and Information Sciences Education
Association of Supervision and Curriculum Development
Association of Teacher Educators
Association for Theatre in Higher Education
Association of University Programs in Health Administration
Broadcast Education Association
Conference of Southern Graduate Schools
Council of Academic Programs in Communication Sciences and Disorders
Council of Colleges of Arts and Sciences
Council of Graduate Departments of Psychology
Council of Graduate Schools
Highlands Biological Foundation
National Association of Business Teacher Education
National Association of Industrial Technology
National Business Education Association
National Collegiate Honors Council
National Communication Association
National Film and Video Association
National Middle School Association
National Organization on Legal Problems of Education
National Recreation and Park Association
National Student Nurse Association
North Carolina Academy of Science
North Carolina Association of Colleges for Teacher Education

The University

North Carolina Association of Colleges and Universities
North Carolina Association of Summer Sessions
North Carolina Association of Supervisors in Speech Language Pathology and Audiology
North Carolina Conference of Graduate Schools
North Carolina Dance Alliance
North Carolina Middle Schools Association
North Carolina Professors of Educational Leadership
North Carolina Theatre Conference
Professional and Organizational Development
Public Relations Society of America
South Atlantic States Association for Asian and African Studies
Southeastern Theatre Conference
Southeastern University Clinical Educators
Southern States Communication Association
Teacher Education Council of State Colleges and Universities
U.S. Institute of Theatre Technology

Assessment of Student Learning at Appalachian State University

Appalachian State University routinely defines and measures academic and administrative programs and services. To that end, students should be aware that throughout their careers at Appalachian they will be expected to respond to surveys, complete evaluations, and provide artifacts that the faculty will use to document the institution's success in fostering student learning.

In some cases, students' responses to assessment inquiries will be anonymous but in most cases, student responses and artifacts will bear unique student identifiers that will allow cross-sectional and longitudinal analysis of assessment results by program. In that the aim of assessment at Appalachian is program improvement, the analysis of results will always focus on programs and not individuals. Students should also understand that this type of information is protected by the Family Educational Rights and Privacy Act of 1974 and except in statutorily specified circumstances individual student responses will never be reported without explicit permission from the student.

Academic Affairs

Academic Affairs

Belk Library and Information Commons

Mary L. Reichel, Dean of Libraries

Georgie L. Donovan, Associate Dean of Libraries

www.library.appstate.edu

John P. Abbott

Amanda M. Bird

John D. Boyd

Gary R. Boye

Greta R. Browning

Elizabeth E. Cramer

Leslie Farison

Margaret N. Gregor

Cynthia D. Harbeson

Frederick J. Hay

Kenneth W. Johnson

Megan Johnson

Martha H. Kreszock

Andrea Leonard

Kelly Rhodes McBride

Pam Mitchem

Paul Orkiszewski

Scott E. Rice

Norma Myers Riddle

Allan G. Scherlen

Amauri R. Serrano

Xiaorong Shao

Jennifer Sizemore

Glenn Ellen Starr Stilling

E. Ann Viles

Catherine L. Wilkinson

Elizabeth M. Williams

M. Suzanne Wise

The Belk Library and Information Commons is centrally located on Appalachian's campus and provides access to a wide range of information resources. The Library's collections include over 681,000 print books, 539,000 e-books, 68,000 audiovisual materials, and 1.5 million microforms. The Library's web site provides access to 431 full text and citation databases and the online catalog. Library faculty and staff manage the collections and assist people in their research. The Library provides areas for individual and collaborative study, electronic classrooms, and a lecture hall. The Library has wireless access, 480 computers, and is open 104 hours a week: Sunday 12:30 pm to 2:00 am, Monday through Thursday 7:30 am to 2:00 am, Friday 7:30 am to 6:00 pm, and Saturday noon to 6:00 pm (excluding holidays and breaks).

The principal educational goal of the Library is to improve the information literacy of students. Information literacy is the ability to find, evaluate and use information effectively, and it is an educational goal for every ASU graduate. To help students develop information literacy skills, librarians provide classroom instruction and one-on-one research assistance, as well as online tutorials and reference chat service.

The Library has numerous special collections including the W.L. Eury Appalachian Collection, the Stock Car Racing Collection, the University Archives and Records, and several Rare Book Collections all located on the Library's fourth floor. Selected materials from these collections are digitized and available on the Library's web site. On the ground floor, the Instructional Materials Center contains resources for teacher education and instructional development. The Music Library is located on the second floor of the Broyhill Music Center and contains the books, scores, and sound recordings which support the curricula of the Hayes School of Music and other Appalachian programs. For items not held by the Library, interlibrary loan services and 48-hour delivery options from UNC-Asheville and Western Carolina University are available.

The Belk Library provides wireless access throughout the building and offers 480 computers including 100 wireless laptops for in-house checkout. All computers provide access to a full suite of software for academic projects across the disciplines. The Digital Media Studio within the Library provides assistance and access to digital media creation software and high-end equipment for creating digital products. The Assistive Technology Room provides access to software and equipment to accommodate the research needs of students and faculty with a variety of vision, hearing, learning, and/or mobility impairments.

For additional information, go to the Library's home page, www.library.appstate.edu or call (828) 262-2188.

Division of Educational Outreach and Summer Programs

Mary F. Englebert, Interim Executive Director

In cooperation with each of the colleges of the University, the Division of Educational Outreach and Summer Programs provides access to a continuum of educational and enrichment experiences for those outside the confines of the residential academic year, through field-based courses, conferences, camp programs, summer sessions offerings, and professional development programs.

Although the Division of Educational Outreach and Summer Programs does not grant degrees, the offices within the division work closely with all academic departments/programs and divisions of the University in order to better serve the various groups, individuals and geographic regions calling upon the University for its services. The offices within the Division of Educational Outreach and Summer Programs are:

Appalachian State University Greater Hickory Partnership

Office of Conferences and Camp Services

Office of Distance Education (including the Appalachian Learning Alliance)

Office of Summer Sessions and Professional Development

Academic Affairs

Appalachian State University Greater Hickory Partnership

www.ghp.appstate.edu

Mary F. Englebert, Director

Appalachian State University Center at Burke
Appalachian State University Center at Caldwell
Appalachian State University Center at Hickory
North Carolina Center for Engineering Technologies

The Appalachian State University Greater Hickory Partnership is a collaborative among Appalachian State University, Caldwell Community College and Technical Institute, Catawba Valley Community College and Western Piedmont Community College, and has established Appalachian State University Centers on or near each of these institutions. The purpose of this organization is to better serve the educational needs of the citizens of these communities. These centers, along with the North Carolina Center for Engineering Technologies, comprise a four-facility organization focused on identifying and meeting post-community college educational needs in the greater Hickory North Carolina region. Working collaboratively with leadership on the main campus in Boone, and with government, civic, and business interests in the region, the director and staff of the partnership investigate and deliver undergraduate degree completion, graduate degrees, and not-for-credit offerings at each of the four facilities. For more information, please call the Greater Hickory Partnership administrative offices, located at the Appalachian State University Center at Hickory at (828) 324-6966.

Office of Conferences and Camp Services

www.conferences-camps.appstate.edu

Amy Sanders, Interim Director

The University encourages the use of its resources and facilities by groups that are interested in providing educational and/or recreational workshops, clinics, camps, retreats, conferences, seminars, and meetings. The Office of Conferences and Camp Services is responsible for the development, coordination, promotion and management of non-credit continuing education programs. Programs are offered to individuals, utilizing the resources of a diversified faculty and staff and the modern facilities, equipment, and accommodations at the Broyhill Events Center, Camp Broadstone, the main campus, and the surrounding region.

Increasingly business, industry and professional associations are requiring their members to return periodically to school in order to maintain a high level of currency in their fields. Appalachian responds to these needs within its service region in arranging for specially designed non-credit courses and programs and uses the Continuing Education Unit (CEU) as a measure of academic achievement.

For information, contact the director of the Office of Conferences and Camp Services, University Hall, Appalachian State University, Boone, NC 28608. Phone (828) 262-3045.

Office of Distance Education

www.distance.appstate.edu

Mary F. Englebert, Director

The Office of Distance Education is the administrative unit of the University responsible for the implementation of off-campus degree credit programs and courses. Through coordination with the academic colleges and departments/programs, institutional resources are extended into the University's service region at ASU Centers which are part of the ASU Greater Hickory Partnership, at Appalachian Learning Alliance and other community colleges and at other UNC System institutions including the UNC School of the Arts in Winston Salem and the UNC-Asheville Graduate Center. Selected programs are also offered online.

Appalachian offers undergraduate degree completion programs in part-time settings in its service region, as well as in an emerging full-time daytime format at selected locations in the Greater Hickory region. Off-campus graduate degree offerings have been made available to citizens of western North Carolina at select locations for over fifty years. For additional information about credit and programs offered off-campus, please contact the Office of Distance Education, P.O. Box 32054, University Hall Drive, Boone, NC 28608, or call (828) 262-3113 or (800) 355-4084.

Office of Summer Sessions and Professional Development

www.summerschool.appstate.edu

Lynette Orbovich, Director

The Office of Summer Sessions and Professional Development coordinates all on-campus academic summer courses provided by Appalachian faculty and noted visiting faculty. These summer programs include workshops, seminars and traditional courses of varying lengths to allow Appalachian students as well as visiting students from other institutions to fit summer studies into busy summer schedules. Summer at Appalachian State University offers students many opportunities to add a minor, tackle a challenging course, graduate early, or study abroad.

On-campus special courses and other programs are offered to teachers and other professionals for both enrichment and the pursuit of advanced degrees.

For summer school information, view the Summer School web site at www.summerschool.appstate.edu, call (828) 262-3154, or email summerschool@appstate.edu.

Academic Affairs

The Office of Equity, Diversity and Compliance (EDC)

www.edc.appstate.edu

The Office of Equity, Diversity and Compliance (EDC) reports directly to the provost and executive vice chancellor for the Office of Academic Affairs. EDC programs and services, summarized below, support students, staff, faculty, administrators, and campus visitors.

Equity

Concerns about impermissible harassment or discrimination from any member of the university community are investigated by EDC staff and, if indicated, brought to resolution. State and federal laws protect all citizens from discrimination and harassment based on religion, creed, race, color, national origin, sex, age, disability, political affiliation and veteran status. Appalachian extends this protection to include sexual orientation and gender identity and expression.

Diversity

EDC staff members facilitate workshops in recognizing and preventing impermissible harassment and discrimination, appreciating differences in others, GLBT issues in the classroom, and creating respectful working and learning environments to any on- or off-campus class, organization, or unit. EDC sponsors the Open Door program and is a founding sponsor of the annual Diversity Celebration.

Compliance

EDC is responsible for directing and monitoring EPA search and hiring procedures, affirmative action and equal opportunity compliance, the EPA exit interview process, and Title IX compliance. The director of EDC is the Title IX coordinator for the university.

For more information about the EDC services and staff members, visit www.edc.appstate.edu or call (828) 262-2144.

The Office of Disability Services

www.ods.appstate.edu

The Office of Disability Services (ODS) assists eligible students and employees with documented disabilities by determining and coordinating reasonable academic or workplace accommodations. Reasonable accommodations are determined individually and are intended to minimize the effects of the impact of specific limitations caused by a disability in order for a qualified individual to have equal access to programs, services and activities.

Consistent with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, it is the policy of Appalachian State University that no qualified individual with a disability in the United States shall be excluded from, denied the benefits of, or be subjected to discrimination under any program or activity that receives federal financial assistance. ODS works diligently to ensure that individuals with disabilities are provided equal access at Appalachian State University.

Individuals seeking reasonable accommodations due to a disability must submit current, comprehensive documentation meeting documentation guidelines and a Disability Disclosure Form. After ODS has received the Disability Disclosure Form and appropriate documentation, ODS will review for eligibility in a timely manner on a case-by-case basis. To complete registration, eligible individuals will be asked to schedule a meeting to prepare an their Accommodation Plan.

The Office of Disability Services is located in Suite 003, Anne Belk Hall. For more information, please visit www.ods.appstate.edu or call (828) 262-3056.

Academic Affairs

The Cratis D. Williams Graduate School

Edelma D. Huntley, Dean and Chief Research Officer
Holly P. Hirst, Associate Dean

www.graduate.appstate.edu

With responsibility for Graduate Studies, Grants Resources and Services, Sponsored Programs, and Research Compliance, the Graduate School consists of a Graduate Faculty represented by the Dean, who is the chief research officer for the University as well as the administrative officer for the Graduate School, the Graduate Council, and the University Research Council. The Dean reports to the Provost and Executive Vice Chancellor for Academic Affairs and is responsible for research and sponsored programs and for graduate education.

Graduate Education

Graduate study at Appalachian includes encouraging academic inquiry, providing opportunities and facilities for advanced study and research, and developing or extending academic or professional specializations. Accordingly, the Cratis D. Williams Graduate School offers programs leading to master's, specialist, and doctoral degrees, as well as selected graduate certificates.

As part of its responsibility for graduate education, the Graduate School oversees all graduate work carried out in the departments, schools, and colleges of the University by evaluating and approving applicants for graduate study; reviewing and approving qualifications of candidates for graduate degrees; reviewing graduate curricula and programs; reviewing graduate faculty credentials; and administering assistantship, scholarship, and fellowship programs.

Grants Resources and Services and Sponsored Programs

The Graduate School serves as a major advocate for research by assisting faculty, staff, and students in the acquisition of external funding; by providing internal support for research and creative endeavors; and by insuring a visible profile for University research and grant activities. The Grants Resources and Services staff provides assistance to the University community in identifying both public and private sources of external funding and in the development of grant proposals. The Sponsored Programs staff oversees submission of all grants and contracts on behalf of the University community, including monitoring proposals for compliance with University, State, and funding agency requirements, and acquiring proper administrative approvals.

The Office of Special Funds Accounting in the Division of Business Affairs assists faculty, staff, and students with the financial administration of grants and contracts after the funds have been awarded to the University.

Research Protections

Integrity in research is the basis for the academic search for knowledge. Persons involved in academic research must guard the truth and protect the public trust that research in an academic environment has long held. The Chief Research Officer (the Dean of Research and Graduate Studies), the Director of Research Protections, and the staff of Research and Sponsored Programs are responsible for monitoring compliance with policies on the responsible conduct of research at Appalachian, including integrity in scholarship and scientific research; the rights and welfare of human research subjects; care for laboratory animals; biosafety; radiation safety; dissemination of technology, goods, and information to foreign nationals, countries, and other international entities; and ownership of research and other intellectual property.

William C. Hubbard Programs for Faculty Excellence

Kathleen T. Brinko, Interim Director

www.hubbardprograms.appstate.edu

The William C. Hubbard Programs for Faculty Excellence provide support and leadership to faculty members and departments in the development of innovative pedagogies; interdisciplinary teaching; "across the curriculum" competencies; appropriate uses of instructional technology; outcomes-based assessment; scholarly agendas; valid, reliable and efficient faculty evaluation processes; preparation for administrative roles; preparation for global competencies; and effective planning for different career stages. The William C. Hubbard Programs for Faculty Excellence office is located in Anne Belk Hall. For more information, call (828) 262-3040.

Information Technology Services

Cathy Bates, Associate Vice Chancellor and Chief Information Officer (CIO)

www.its.appstate.edu

Information Technology Services (ITS) provides faculty, staff and students with the necessary technology resources to meet the instructional and administrative needs of the campus. To accomplish this, our focus is on meeting logistical needs including networking, email and technical support; web-enabled self-service resources for accessing information; activities to support teaching and learning with technology, including on-line classes; and enterprise administrative/decision support systems. All of these resources should support the campus strategic plan and be scalable and adjusted as needs change.

Academic Affairs

Institutional Research, Assessment and Planning

Bobby H. Sharp, Director

www.irap.appstate.edu

The fundamental purpose of the Office of Institutional Research, Assessment & Planning (IRAP) is twofold, directed toward fulfilling the stated missions of the University of North Carolina and of Appalachian State University:

- to provide data support for university planning and management activities; and,
- to provide leadership for comprehensive academic and administrative planning and assessment.

IRAP assumes primary responsibility for (a) collecting data about the performance of the university, (b) collecting data about the environment of the university, (c) analyzing, interpreting, and presenting the collected data, and (d) transforming the data into meaningful information that supports university planning, policy making, decision making, and assessment. Services of IRAP are available to university administrators, faculty, and students involved in planning and management activities as well as to persons and agencies outside the university. In fulfilling its mission, IRAP seeks to anticipate information needs, present information in accessible and useful ways, and provide prompt, accurate, and courteous service.

Office of International Education and Development (OIED)

Room 238, I.G. Greer Hall (828) 262-2046

www.international.appstate.edu

*Jesse Lutabingwa, Associate Vice Chancellor for International Education and Development
and Director of International Research and Development*

Marjorie (Marty) McCormick, Business Officer

Kelley Wolcott, Office Manager

Meg Marck-Kennedy, Director, Appalachian Overseas Education Programs

Nathalie Turner, Assistant Director, Appalachian Overseas Education Programs

Dawn Arnold, Program Assistant, Appalachian Overseas Education Programs

Ken Lewandoski, Executive Director and Director, International Student Exchange and Study Abroad

Jeanne d'Arc Gomis, Assistant Director, International Student Exchange and Study Abroad

Luca Lippardini, Program Coordinator and Study Abroad Advisor

Sarah Bergstedt, Director, International Outreach

Diana Salazar, Director, International Student and Scholar Services

Natalie Best, Assistant Director, International Student and Scholar Services

Appalachian combines a strong liberal arts foundation with a comprehensive, pervasive, and integrated commitment to internationalization. The mission of internationalization efforts at Appalachian is to develop awareness, knowledge, and appreciation of and respect for cultural differences in both domestic and international contexts in students, faculty, staff, and the surrounding communities. The University is also dedicated to creating a campus environment that builds the theoretical and practical skills needed to interact effectively in a global society. Through the curriculum, co-curricular activities, relationships with scholars and students from around the world, education abroad programs, grants and scholarships for collaborative research abroad, and numerous cross-cultural programs, Appalachian creates opportunities for students to understand the world and be active participants in it. Appalachian's ability to fulfill the commitment to internationalization is the result of bright and curious students working with an inspired and diverse faculty, a demanding and interdisciplinary curriculum, and a thriving international program.

Education Abroad

Appalachian Overseas Education Programs: Appalachian Overseas Education Programs offer students a wide selection of faculty-led, short-term study abroad programs. Students have the opportunity to earn up to six credit hours, which are applied toward their degree programs, while spending one to five weeks abroad. With the exception of some language programs, Appalachian faculty members teach short-term study abroad courses in English. Financial aid is available to eligible students. Program participants can also apply for a limited number of education abroad scholarships offered through OIED.

International Student Exchange and Study Abroad: Through bilateral exchange, consortia, and affiliation agreements, Appalachian students have access to more than 200 international programs to consider for semester or year study overseas. OIED partners with more than 60 institutions abroad for exchange programs and Appalachian is a member of the University of North Carolina Exchange Program and the International Student Exchange Program. While many locations offer the opportunity to study in a foreign language, many programs are in English-speaking countries or offer courses in English. The cost of all bilateral exchanges is the same as tuition and fees at Appalachian and room and board at most partner institutions is the same as on campus; the cost of other programs vary widely. Students who receive scholarships and financial aid can apply these benefits to the cost of studying abroad. Students can also apply for a limited number of education abroad scholarships offered through OIED.

Academic Affairs

International Outreach

International Outreach at Appalachian provides resources and develops intercultural programming and training initiatives to serve the campus as well as the communities of Northwestern North Carolina. Programming efforts in International Outreach promote the internationalization of the Appalachian campus, the local community, and K-12 schools in this region. The mission of International Outreach is to deepen global understanding by promoting cross-cultural sharing and learning opportunities among Appalachian students and staff, regional schools, and community members.

International Research And Development

OIED strengthens the internationalization of Appalachian through world-class contributions to education, research, and development across the globe. OIED designs and implements international technical assistance and training projects and contributes to both the theory and the practice of international development. Through its development and participant training projects, research, and outreach activities, OIED works to enhance the capacity of developing nations to meet critical challenges. OIED works to bridge the gap between the theory and practice of international development by offering research, service, and learning opportunities abroad to Appalachian faculty, staff, and students.

International Student and Scholar Services

Appalachian offers comprehensive support services for our international students and scholars. These services include personal advising, academic support, assistance with immigration and health insurance, and social and informative programs including a week-long welcome orientation, host family matching, "This, too, is America" - a series of classes and excursions to local and national places of interest, International Coffee Hours on campus, and other cultural events. International Appalachian (INTAPP), a university-funded student service organization, works with OIED to help orient and acclimate international students to the Appalachian campus. The International Faculty, Staff, and Spouse Association (IFSSA) is a vital support resource for all international faculties, staff and their families.

International Studies At Appalachian

Appalachian offers more than 100 international courses along with specific programs with an international focus. These programs and courses include:

- Bachelor of Arts degree in Global Studies
- Bachelor of Arts degrees in French Francophone Studies and in Spanish, and Bachelor of Science degrees with K-12 teacher licensure in French and Francophone Studies, Education and in Spanish, Education
- Bachelor of Science in Criminal Justice degree with a concentration in International Studies
- Bachelor of Science degree in Political Science with a concentration in International and Comparative Politics
- Bachelor of Science in Business Administration degree in International Business; and a Bachelor of Arts degree in Economics with a concentration in International Economics (See the Department of Economics listed under the Walker College of Business.)
- Minors in Global Studies, International Business, French and Francophone Studies, Japanese, TESL/Applied Linguistics, Spanish, German, and Chinese. (For a description of the International Business minor, see listing under the Walker College of Business)
- Courses in French, German, Spanish, Arabic, Chinese, Japanese, Latin, Portuguese, and Russian

Student Life

Student Life

The Lee H. McCaskey Center for Student Involvement and Leadership

Jamar Banks, Director

www.csil.appstate.edu

The Lee H. McCaskey Center for Student Involvement and Leadership, a part of the Division of Student Development, recognizes that the development of the whole student is achieved through in-class and out-of-class learning opportunities and experiences. These experiences are provided through programs designed to enhance leadership, intellectual, personal, cultural, and professional development. It is believed that when afforded opportunities for learning and growing, students will graduate from the institution with a better understanding of themselves and their peers, organizations, chosen professions, and responsibilities as part of a larger community.

Programs and services are grounded in the philosophy that all students be given opportunities and responsibilities for engaging in activities, programs and services relevant to their individual, educational and professional goals. The Center, through the implementation of student development theories in traditional and non-traditional settings, assists students in developing environments that enhance diversity, promote ethical and moral development, and provide leadership and experiential learning opportunities. To this end, the Center promotes personal growth opportunities, leadership development, social development and student accountability through personal counseling and instruction, practicum and experiential learning opportunities.

More than 275 clubs and organizations are recognized by the University with over 8,000 students involved in these groups. Academic, honor, special interest, service, religious and activity organizations are open to all students. There are 25 fraternities and sororities with 1,200 students that comprise the Greek system and maintain an active presence on the campus. Students have an opportunity to learn about clubs through club expos held each year, club advertising and recruitment activities, new student orientation and by visiting the Center. Research shows that involvement can be a positive factor for academic success and personal satisfaction with your college experience. Students who become involved on-campus more often than not get better grades and indicate that they have had a more positive experience in college. Students who become involved in organizations related to their major find such involvement reinforces classroom learning as well as providing valuable hands-on experience.

The Center offers a wide variety of leadership and involvement opportunities for all students. Whether you are interested in taking leadership classes for credit, attending conferences and seminars, or receiving individual advisement, the Center staff can provide that support. Programs range from an Emerging Leaders Program for new students to a Keystone Series for seniors and everything in between. Students have access to the Leadership Resource Center where books, videos and instruction materials about leadership are available.

Through participation in the **Student Government Association**, students may take an active role in University governance. The SGA consists of two branches and is made up of elected representatives from residence halls and off-campus constituencies. The Executive branch is made up of the President and the Executive Cabinet; the Legislative branch is composed of the Vice President, the Legislative Cabinet and the Senate. The Senate deliberates on student welfare matters, from academic requirements to residence life, and makes recommendations to the University. Students help to formulate and write University policy by serving on faculty-student-staff committees on academic policy, admissions, business affairs, public programs, public service, registration, research, student life, and traffic. Students can also represent student opinions by volunteering to serve on University committees ranging from academic policies and procedures, to student health care, to parking.

Student Publications provides students the opportunity to become involved with campus media while developing writing, editing, photography, graphic design and advertising skills that enhance classroom learning and provide hands-on experience that translates to job opportunities on leaving the University. *The Appalachian*, the University's award-winning twice weekly paper, is distributed free on-campus to keep students informed of important campus events. *The Appalachian Online* is Student Publications' worldwide web site containing the latest news from the pages of *The Appalachian*, as well as links to other sources of information. Both the print version of *The Appalachian* and the online version offer an instructional experience for students interested in careers as student journalists. Students learn the responsibilities of a free press by making all content decisions.

Student Programs

David L. Robertson, Director

www.studentprograms.appstate.edu

Student Programs, a division of Student Development, provides the Appalachian community with a variety of social, cultural, and community service educational programs and experiences. Producing events and programs provides involved students with valuable work related skills in managing, leading, organizing, communicating, motivating others, budgeting, advertising, etc.

Student Programs manages the Plemmons Student Union, Legends Social Center, and Broyhill Events Center to provide facilities and services for programming, meetings, bands, parties, and the general enhancement of life at Appalachian.

Student Life

The Appalachian Popular Programming Society (A.P.P.S.), is the all-campus programming organization sponsored and advised by the Department of Student Programs. Membership is open to all interested students and provides excellent leadership opportunities. A.P.P.S. has two major goals. One is to enhance the quality of campus entertainment. The second is to provide significant “hands on” learning experiences and leadership opportunities for involved students. The organization is made up of an executive cabinet and the following student-run programming councils: Stage Shows, Special Events, Club Shows, Films, Concerts, the Council for Cultural Awareness, and the Appalachian Heritage Council.

The Plemmons Student Union's purpose is to build community among ASU students. There are a number of services and facilities located in the Union. They include the A.C.T. Community Outreach Center, two Coffeehouses, Peer Career, the Multi-Cultural Center, a game room, two ballrooms, Art Gallery, lounges and various meeting rooms. McAlister's Deli and the Cascades Café are located in the Union. Other services provided in the Union include the Information Center, and the Mt. Mitchell Fitness Center, computer labs and study rooms. The Greenbriar Theater is a popular location for classic films. The Summit Trail Solarium is a prime gathering place for students at Appalachian. A roof top patio and amphitheatre are also available for outdoor performances, receptions, etc. Room reservations can be made by calling (828) 262-3032. The new 58,000 square foot addition to the PSU is scheduled to open in January of 2013.

Legends is Appalachian's social and entertainment center. With a capacity of 1,000 patrons, it is staffed by student employees. A wide variety of entertaining programs occur in Legends and are coordinated by the A.P.P.S. councils. Such programs include regional and local bands, national entertainers, theme parties, DJs and comedians. Past performances have included the Dave Matthews Band, Outkast, Coolio, Hootie & the Blowfish, Widespread Panic, John Mayer, Dark Star Orchestra, Disco Biscuits, Eric Church, Corey Smith, Grace Potter and the Nocturnals, and the North Mississippi Allstars, to name a few.

Appalachian and The Community Together/Community Outreach Center

ACT, supported by both Student Development and Academic Affairs, offers opportunities for students to get involved in community service, academic service-learning, and community-based research within the NC High Country, as well as across the state, nation and world. In addition to hosting a comprehensive database of information on over 150 local community agencies, ACT offers engagement opportunities for every ASU student -- from one-time events in Boone to full-year international opportunities abroad. Students who participate in the ACT program will increase their awareness, become involved, and affect change concerning critical social, economic and environmental issues! For more information, stop by the ACT Community Outreach Center or visit the ACT website at www.act.appstate.edu.

The Office of Multicultural Student Development

Augusto E. Peña, Director

www.multicultural.appstate.edu

It is an essential public service to recruit, retain and graduate a diverse student body that is able to apply innovative solutions to the complex cultural, economic, social, environmental and political challenges of a global society. The Office of Multicultural Student Development, part of the Division of Student Development, contributes to the academic mission of Appalachian State University by providing marginalized and underrepresented students with mentoring, advocacy, community and identity affirmation; as well as by offering multiple and varied learning opportunities for all Appalachian students to develop an appreciation for diversity and different perspectives, enhance self-awareness, increase multicultural knowledge and strengthen intercultural competency.

Multicultural Student Development aspires to offer leadership, advocacy and serve as a resource to all Appalachian State University constituents and residents of Northwest North Carolina in matters concerning diversity. Multicultural Student Development also aspires to contribute to a campus-wide conversation that advances the University's commitment to an inclusive learning environment for everyone.

Multicultural Student Development operates three student-led outreach centers; the LGBT Center, the Multicultural Center and the Women's Center. The following principles guide our work:

Social Justice: To challenge the roots of oppression, inequity and injustice; empower all people to exercise self-determination and realize their full potential.

Collaboration: To share resources and expertise with students, faculty, staff and community partners; provide leadership in promoting diversity and social justice in our community.

Community: To foster a sense of belonging to, engagement with, and shared responsibility for the well-being of the community.

Learning: To foster safe spaces for the exploration of new ideas and concepts and to encourage critical thinking.

Intercultural Competence: To enhance self-awareness, knowledge of difference, and ability to interact across differences.

Leadership: To mentor, challenge and empower students through out-of-class experiences that help develop self-efficacy and allow for the exploration of ideas, passions and interests.

Student Life

Support: To guide students, advocate, teach accountability, empower, cultivate culture of inclusion, and promote the interests or causes of students.

Sustainability: To value social capital, preserve culture, embrace social, economic and environmental interdependence.

Personal Well-being: To promote an active process of becoming aware of and making choices that help enhance one's health.

Religious Life

Appalachian is a state-owned campus, and as such it has no religious affiliation. Its students, however, promote and support a variety of denominational and non-denominational student organizations. Numerous churches are within walking distance of the campus, and many have student centers open to all students.

Student Fees

Student fees support such services and activities as the Student Health Services, Student Union, Quinn Recreational Center, campus technology, cultural programs, student government, concerts, social activities, forensics, theatre, intramurals, student publications, and attendance at all athletic events on-campus.

Athletics

www.goasu.com

Charles G. Cobb, Athletic Director

While Appalachian's three NCAA Division I football national championships from 2005-07 and its 34-32 victory in 2007 over Michigan - the nation's all-time winningest program - put ASU in the national spotlight both academically and athletically, Mountaineer athletics has more to brag about than just its gridiron success.

Appalachian fields 20 varsity sports and all are members of NCAA Division I - the nation's highest level of intercollegiate athletics. Nineteen of ASU's 20 sports compete as members of the Southern Conference, the nation's fifth-oldest Division I conference. Mountaineer field hockey is a member of the NorPac Field Hockey Conference.

For a sixth-straight year, Appalachian won the SoCon Commissioner's Cup in 2011-12, the 32nd time it has accomplished the feat. The Commissioner's Cup, which recognizes the top men's all-sports program in the conference, has been claimed by the Mountaineers a total of 31 times. ASU has also claimed the Germann Cup, which recognizes the top women's all-sports program, a total of nine times. Appalachian is the only Southern Conference member to win both awards in the same season, accomplishing the feat eight times – the most recent in 2010-11.

The Mountaineers' winning tradition continued during the 2011-12 season as six different ASU athletic teams claimed SoCon championships: baseball, women's basketball, wrestling, men's outdoor track and field, women's outdoor track and field and women's indoor track and field.

Appalachian's track and field teams swept the Southern Conference outdoor titles for the second-straight season and won the conference indoor title on the women's side. Women's basketball also won its second SoCon title in a row while Wrestling finished the regular season with a perfect 6-0 conference record en route to its first SoCon Championship since the 2002-03 season. Baseball wrapped up an exciting season by posting a 21-9 mark in league play to capture its first conference title in 25 years and was selected to play in the NCAA Division I Baseball Tournament. The Mountaineers went on to win two games in the Charlottesville Regional over nationally-ranked foes Oklahoma and Virginia, setting a school record with 41 wins on the season before falling just one win shy of advancing to the NCAA Super Regionals.

In addition to their success in the athletic arena, ASU student-athletes are also among the nation's top performers in the classroom. In 2011-12, all 20 of Appalachian's sports boasted multi-year NCAA Academic Progress Rate (APR) scores of 954 or better (on a scale of 1,000) and ASU's football team registered a score of 982, 38 points higher than the NCAA Division I FCS average of 944. The Mountaineer football squad, along with men's cross country and field hockey, were also recognized by the NCAA with the Public Recognition Award for scoring in the top-10 percent of their respective sports in the APR.

Appalachian boasts some of the finest athletics facilities that the SoCon and the nation have to offer. Thanks to a recently completed \$50 million facilities enhancement project, each of the Mountaineers' 20 sports train and compete in facilities that have been built or remodeled since 2000. Appalachian's athletics facilities are highlighted by the 120,000-square-foot Appalachian Athletics Center, which houses training and academic areas for all 20 sports and premium seating for Mountaineer football. Other facilities include Kidd Brewer Stadium (football, field hockey, track and field), the Holmes Center (basketball, volleyball, track and field), Beaver Field at the Jim and Bettie Smith Stadium (baseball), Sywassink/Lloyd Family Stadium (softball), ASU Soccer Stadium at the Ted Mackorell Soccer Complex (soccer) and Don Kennedy Trails (cross country). The Mountaineers also practice in top-notch surroundings at the Sofield Family Indoor Practice Facility and Varsity Gym, which is also the competition venue for ASU wrestling.

For the most up-to-date information on ASU athletics, visit www.goasu.com.

Student Life

Fall Varsity Sports: Men's Cross Country, Women's Cross Country, Field Hockey, Football, Men's Soccer, Women's Soccer, Volleyball

Winter Varsity Sports: Men's Basketball, Women's Basketball, Men's Indoor Track and Field, Women's Indoor Track and Field, Wrestling

Spring Varsity Sports: Baseball, Men's Golf, Women's Golf, Softball, Men's Tennis, Women's Tennis, Men's Outdoor Track and Field, Women's Outdoor Track and Field

The Career Development Center

www.careers.appstate.edu

Marjorie Ellis, Director

Appalachian provides a full range of career services to assist students with career-related issues and career management skills. At Peer Career, the Career Development Center's satellite office, students can receive assistance in identifying academic majors and career options compatible with their interests, abilities, and values. Computerized guidance programs and other assessment tools assist with this process.

The Career Development Center offers individualized advising on self-managed career development, experiential learning, and personal marketing strategies. Students can access www.careers.appstate.edu for a variety of resources on careers, graduate schools, employers and full-time job opportunities. Information on internships can be found at www.internships.appstate.edu.

A student employment program is also available for identifying part-time, on-and off-campus, and summer work opportunities at www.studentemployment.appstate.edu.

Special services for graduating seniors include on-campus interviews and online career accounts for posting resumes and viewing job openings. Workshops, practice interviews, and resume critiques help prepare students for the job search, while career and internship fairs provide the opportunity for students to make direct contact with a wide range of employers.

Counseling and Psychological Services Center

www.counseling.appstate.edu

Dan L. Jones, Director

The Counseling and Psychological Services Center is part of a comprehensive program of student services within the Division of Student Development at Appalachian State University. The Center has as its primary purpose the prevention of psychological difficulties and treatment of the mental health concerns of its students. To meet this goal, the Center provides confidential individual, couples and group counseling for a variety of developmental and psychological issues. Concerns addressed in therapy range from personal growth and educational decisions to more serious issues that can cause psychological distress and interfere with academic functioning. The Center also provides 24-hour emergency response services when classes are in session for students experiencing extreme psychological crises. The Center is staffed by licensed psychologists and counselors and serves as a training site for an APA-accredited predoctoral psychology training program, as well as externs and practicum students for the Clinical Health Psychology, Human Development and Psychological Counseling, and Social Work graduate programs at Appalachian State University.

The Center also seeks to assist in the creation and maintenance of a University environment that will foster the well-being and personal development of its members. The Center provides outreach programs and psychoeducational workshops in a variety of venues to address such issues as eating disorders, sexual assault, career choice, substance abuse, stress management and suicide prevention. Center staff also are available to consult with University students, faculty, staff and others concerned about the psychological well-being of any University student.

The Peer Career Center, co-sponsored by the Counseling and Psychological Services Center and the Career Development Center, offers assistance in career choice and planning. Trained and supervised student counselors assist students in learning about themselves and the world of work, making decisions, and developing career plans.

University Housing

www.housing.appstate.edu

Tom Kane, Director

The University has 21 residence halls housing nearly 6,000 students in a living and learning atmosphere. The quality of the on-campus experience is of as much a concern to the University as the quality of any academic program.

The halls are staffed and supervised by personnel who are trained to create a friendly atmosphere in which students can enjoy life and feel a part of the University community. The Office of University Housing employs 155 professional, graduate, and undergraduate staff members who live in the residence halls to respond to the needs of our resident students.

University Housing has qualified student leaders and professional staff who are responsible for creating an environment within our living and learning units that is conducive to, and complements, the educational process. Each residence hall has a hall council that works with the staff to provide social, educational, cultural, and recreational programs. There are limitless opportunities for meeting the needs of the resident student through program development and implementation.

Student Life

Each room is equipped with basic furniture. Students are allowed to supply rugs and other personal furnishings according to individual taste. Students may want to bring: one or more UL approved electrical outlet strips with a circuit breaker (maximum 6 outlets per strip); TV; stereo, radio, CD player; carpet (Halls with carpet: Gardner, Coltrane, Newland, Living Learning Center, Appalachian Heights, Doughton, White, Lovill, and Appalachian Panhellenic Hall); bookshelf (free standing); desk lamp; alarm clock; trash can; umbrella; and a personal computer. (The Living Learning Center and several academic buildings have computer labs available for student use. Print stations are available at the East and West service desks.)

Some appliances are allowed in the student rooms (lamps, small television sets, small refrigerators); but others are NOT (hot plates, toasters, heat lamps, irons, halogen lamps, microwave ovens, heaters, George Foreman type grills, and other electrical appliances). Irons may be used in laundry rooms. Additional items that students should NOT bring are as follows: ceiling fans or track lighting; power tools; nails; lofts (these are against fire code regulations); pets other than fish (10 gallon tank limit); candles, incense burners, or any apparatus that produces an open flame; handguns, rifles, shotguns (it is a felony to possess a weapon on campus); knives, BB guns, fireworks (it is a felony to possess these items on campus). The *Code of Student Conduct Handbook* contains specific regulations and policies which govern residence hall life. All students are responsible for knowing these regulations and conducting themselves accordingly. Any student who is evicted from on-campus housing is not eligible for a refund of room rent.

Housing requirements. All new, incoming freshmen (having never attended an institution of higher learning) are required to live in University-owned housing with the exception of those students living with parents or guardian within a 30 mile radius, those who are married, or veterans eligible for training under Public Law 358, G.I. Bill effective June, 1966. ALL RESIDENCE HALLS ARE CLOSED DURING WINTER BREAK. NO STUDENT CAN STAY DURING THIS TIME.

All students reserving rooms are subject to an academic year room and board contract. Students who reserve a room for the academic year are obligated to pay room rent for fall and spring semesters as long as they are enrolled. Exceptions are made during the term of the housing agreements for students participating in off-campus field service programs (i.e., internship or student teaching outside of Watauga County), students getting married during the term of the agreement, and students who do not enroll for any coursework for the second (spring) term. A prorated refund will be considered for those students who are married during the semester, provided proof of marriage is supplied.

Returning students have the opportunity to reapply for housing each January/February prior to the next term of housing. Housing assignments are given to a limited number of returning students who apply by the published deadline, pay a \$250 pre-payment, and select a room with sufficient roommates to ensure full occupancy. **The \$250 pre-payment is non-refundable.** Appalachian State University is incurring an administrative expense to hold a space for a student. The University will retain the \$250 pre-payment to cover administrative costs.

If a student's request to cancel is received after July 1, the student is liable for the entire amount of housing charges for the fall semester. Because the License Contract is for an academic year (fall and spring semesters), students who are residents in the fall semester are expected to continue to occupy rooms in the spring semester.

Freshmen: Starting February 1st of each year, a freshman student that has been accepted and paid their \$200 pre-payment to Appalachian State University must go to the University Housing Office web site (www.housing.appstate.edu) to fill out their housing application. Each student must read and agree to the entire housing contract. The deadline to fill out the housing application is May 1st and the student will receive their housing assignment around mid-July. The housing assignment will be emailed to their university email address and will include roommate contact information.

Transfers: Transfer students who are interested in residential student housing are encouraged to apply, but are **NOT** guaranteed a housing assignment. Transfer students are assigned after returning students and freshman students have been assigned. Transfer students will be assigned in the order that housing applications are received.

Students requesting to be roommates should complete the appropriate sections on their housing applications. Both students' completed applications need to include a mutual request. All roommate request changes must be made in writing and received by June 30th. Changes to housing applications received after July 1st will not be honored.

"Academically Ineligible Statement." Students with room assignments who are declared academically ineligible at the end of the fall semester will have their housing assignments cancelled. They should contact the housing office about checking out of their residence hall during the first week of January.

Mary S. Shook Student Health Service

Robert S. Ellison, M.D., Director

www.healthservices.appstate.edu

Medical Services are provided to eligible students by the Mary S. Shook Student Health Service at its location on the second floor of the Miles Annas Student Support Services Building on Howard Street. Full services clinic hours are 8AM-4PM Monday-Friday (9AM-4PM Wednesday). Limited services clinic hours are 4PM-6PM Monday-Friday, 10AM-2PM Saturday, and 2PM-6PM Sunday.

Student Life

Service is also open for limited services 8AM-11AM during breaks. Summer hours are 8AM-4PM, Monday, Tuesday, Thursday, Friday; and 9AM-4PM Wednesday. Registered Nurse telephone consultation is available when Health Service is closed. Persons calling Health Service at (828) 262-3100 will be given the option to access this service. Referrals to off-campus physicians or to the Watauga Medical Center may be required for services not available or outside of regular clinic hours. In such cases, the student is responsible for all charges incurred.

A current, valid ID must be presented before each visit to the Health Service. Students paying fees for nine or more credit hours during an academic semester or at least one credit hour during a summer term are eligible for care at the Health Service. Students who are enrolled and pay fees for less than those hours may elect to pay the Health Service fee at the Student Accounts office and be eligible for care. The Health Service is funded by student health fees. Many services provided require no payment other than the health fee, though there is a nominal charge for some services. Contacts with the Health Service are confidential. Records are maintained separately from the University records for the use of Health Service personnel and may be released only with written permission by the student.

The Health Service does not issue medical excuses for class absences due to illness or injury. Students who withdraw from the University for health reasons should do this through the Health Service and must receive a medical clearance before being re-admitted. This clearance must present evidence that the condition which necessitated withdrawal has improved and that there is reasonable expectation of the student's ability to participate in University life.

North Carolina law requires that all students have a complete immunization record on file at the Health Service. Students not in compliance will be administratively withdrawn from the academic term in question.

Mandatory Student Insurance Requirement

Beginning with the 2010-11 academic year, any student enrolled in a degree-seeking program at Appalachian State University for six or more semester hours and who is eligible to pay the student health fee, must provide proof of a creditable health insurance policy. Students who do not provide proof of insurance by the start of fall classes will be charged each semester for health insurance provided by Pearce & Pearce, the company that was selected by the UNC Board of Governors to provide medical insurance system wide.

Any student meeting these criteria who has an existing creditable coverage health insurance policy is able to waive out of the UNC system plan easily and quickly online. No paperwork is required. The Web portal to waive out of the UNC system plan may be found at www.studentinsurance.com. A response to a waiver request submission typically will be made within no more than three business days once the verification process begins. For further information, please visit ASU's Homepage at www.appstate.edu and search for Health Services under the A-Z Index.

Office of Student Conduct

Judith M. Haas, Director

Academic Integrity Code & Code of Student Conduct

www.studentconduct.appstate.edu

Appalachian State University is committed to maintaining an environment that supports and encourages the pursuit and dissemination of knowledge. All members of the academic community - students, faculty, administrators and staff, share in the responsibility of protecting and promoting that environment and all are expected to exemplify high standards of professional and personal conduct.

As an institution of higher education, it is our responsibility to create an atmosphere of trust, respect, fairness, honesty, and responsibility. Appalachian's *Academic Integrity Code* and the *Code of Student Conduct* were developed to assist students in their learning both in and outside the classroom and to foster such an environment.

Both Codes are based on the concept of educational discipline. Educational discipline focuses on promoting responsible conduct, teaching about the consequences of misconduct for the individual and the community, providing opportunities for growth and development, and holding students accountable for their behavior.

Students admitted to Appalachian State University accept the responsibility to adhere to all policies set forth in the *Academic Integrity Code* and the *Code of Student Conduct*. A violation of either can result in disciplinary sanctions.

Sanctions are designed to be educational in nature and, whenever possible, to provide an avenue for continued membership in the University community. However, student's who fail to follow community standards are treated similarly to students who have failed academically and can be removed from the University.

The illegal or abusive use of alcohol and other drugs by members of the academic community adversely affects this educational environment. North Carolina and federal laws restrict or prohibit the use of alcohol and other drugs in various contexts. The illegal or abusive use of alcohol and other drugs is not compatible with personal health and welfare and the pursuit of academic excellence, and will not be tolerated by Appalachian State University on or off campus or as part of any institutional activities.

Student Life

Appalachian Alcohol Policy (Possession and Use of Alcoholic Beverages)

www.policy.appstate.edu/Possession_and_Use_of_Alcoholic_Beverages

Policy and Procedure on the Illegal or Abusive Use of Alcohol and Other Drugs

www.policy.appstate.edu/Drugs_and_Alcohol

Appalachian State University Football Tailgating Policy

www.policy.appstate.edu/Tailgating

The Office of Student Conduct is host to the **Student Legal Clinic**. An attorney is available to assist students with legal concerns that arise during their academic experience. The most common issues are landlord and tenant disputes, minor criminal issues, and traffic violations. An appointment to meet with Ms. Karla Rusch can be scheduled by contacting the Office of Student Conduct at (828) 262-2704.

Students, faculty and staff are encouraged to contact the Office of Student Conduct at any time for consultation on policies and procedures. The Office of Student Conduct, located on the second floor of the Plemmons Student Union, may be reached by telephone at (828) 262-2704, by fax at (828) 262-4997, or by email at studentconduct@appstate.edu.

Post Office

Greg Y. Foster, Director

www.po.appstate.edu

A United States Post Office Contract Station is maintained by Appalachian in the Miles Annas Student Services Building. A mailbox is provided for most students. Students may check on-line under their AppalNet account to find their ASU Box number and the combination for their mailbox. The student's University mailbox address is used by the University for communicating with each student. For this reason, **students are responsible for checking their University mailboxes frequently**. Students enrolled in an off-campus extension course will probably not have a mailbox.

If a student meets the following criteria, she/he may opt-out of their campus mailbox and no longer receive mail at the University Post Office: 1) the student lives off-campus; 2) the student does not receive a paycheck from any department within the university (however, if the student works at the university and receives their pay by direct deposit, they may opt-out of a campus mailbox); and, 3) the student is currently enrolled at the university (summer students are not allowed to opt-out). If a student chooses to opt-out of their campus mailbox, they may do so by logging into AppalNet, clicking on "Self-Service," then select the "Personal Information" tab. Next, click the "ASU PO Box Opt-Out" link, check the box acknowledging the opt-out, and click "Submit." After opting-out, the student should go to the Post Office one last time to check their mailbox and submit a change of address form to have their mail forwarded to another address. The Post Office will forward all mail for which postage has been paid. It will not forward any university mail without postage.

Visit our website at www.po.appstate.edu for a complete description of services.

Parking And Traffic

Barry D. Sauls, Director

www.parking.appstate.edu

The University Parking and Traffic Department is responsible for providing parking services and traffic control for all faculty, staff, students and visitors to the campus. Individuals who wish to park a motor vehicle on University controlled property between the hours of 7:00 a.m. and 5:00 p.m., Monday through Friday, must obtain a parking permit from the Parking and Traffic Department before doing so. Several types of permits are available, dependent upon the category of the registrant. The appropriate permit will be provided at the time of registration, subject to availability. Fees are charged for parking permits, as designated by the University's Board of Trustees.

For further information, please contact the Parking and Traffic Department at (828) 262-2878, visit our web site (noted above) or visit our office in the Rivers Street Parking Deck.

University Police

Chief Gunther E. Doerr, Director of Public Safety and Risk Management

www.police.appstate.edu

The University Police Department is responsible for protecting life and property at Appalachian by providing emergency and non-emergency law enforcement services, crime prevention, safety and criminal investigative services.

For an on-campus **police emergency**, simply call 8000 from any on-campus phone or (828) 262-8000 from your cell phone. To report a crime or any other suspicious activity, call (828) 262-2150 or use one of ASU's 75 Blue Light emergency telephones located throughout campus.

Student Life

To report a crime anonymously, call "Crimestoppers" at (828) 268-6959 or log on to our web site at www.police.appstate.edu and click on "Report Crime Information or Suspicious Activity Anonymously On-line."

The University's Annual Security Report is available on-line at www.police.appstate.edu. The report includes statistics for reported crimes that occurred on-campus and institutional policies concerning campus security and fire safety, such as policies concerning sexual assault, building evacuation and other safety and security matters. If you would like to receive a paper copy of the report, you can request that a copy be mailed to you by calling ASU Police at 828-262-2150.

Environmental Health, Safety and Emergency Management

Seth Norris, Director

www.safety.appstate.edu
www.emergency.appstate.edu

The Office of Environmental Health, Safety and Emergency Management (EHS&EM) is responsible for reducing unintentional accidents and injuries on campus by providing environmental health, fire prevention, safety, and emergency management services. EHS&EM works with faculty, staff, and students to reduce risk in Appalachian's living, learning, researching, and working environments.

EHS&EM manages the emergency preparedness programs for Appalachian State University, including the AppState-ALERT voice and text emergency notification system. To register your cell phone to receive emergency voice and text messages, go to the following website: www.emergency.appstate.edu. You may also enroll during the class registration and drop/add periods. Visit the emergency website at www.emergency.appstate.edu for important emergency preparedness information.

For more information on any of the programs and services offered by EHS&EM, call (828) 262-4008.

Food Services

Art Kessler, Director

www.foodservices.appstate.edu

Appalachian owns and operates its own food services in various campus facilities. The Central Dining Hall includes Rivers Street Café and Sanford Commons; McAlister's Deli and the Cascades Café are located in the Plemmons Student Union; Park Place Café, McAlister's Select, and The Market are located in Trivette Hall; The Juice Bar is located in the Student Recreation Center; The Market-Bookstore is located in the University Bookstore; and The Market-Panhellenic is located in the Appalachian Panhellenic Residence Hall. Rivers Street Café is the home to a variety of dining options such as Noodle Works, wrAPPS, Homestyle Classics, Healthy Select, Fresh Market, Fire Side Pizza, Rivers Street Grille, Sushi, Treat Yosef and On-the-Go. At Sanford Commons, students will choose from Traditions, Salads Plus, The Pizzeria, A Sub Shop, Chick-fil-A, Habanero's Fresh Cantina, Sushi, On-the-Go, and Conrad's Coffee. All resident students are required to select a meal option each semester as a part of the room and board contract. Publicized options represent minimum requirement levels. Since food services pricing is a-la-carte, the level of participation by a student will determine the selection of the most appropriate option. Any balance in the meal option from Fall semester carries over to Spring semester. Any balance remaining at the end of Spring semester does **NOT** carry over into another semester. The meal account is non-refundable.

Refunds will be made only in the case of official withdrawal from Appalachian State University during a semester.

What is the refund policy for Dining Plans?

Refunds will be made only in the case of official withdrawal from Appalachian State University during a semester. The ONLY refund granted is when the student goes through the official withdrawal process from the University and the money refunded will be from the current semester only. Money from the prior semester WILL NOT be refunded. Account balances carry over from fall to spring semester. Any balance left at the end of the spring semester is NON-REFUNDABLE, and it will not carry over into summer sessions. The pre-paid meal option is managed by the student through the computerized APPCARD system.

Catering

Food Services offers a wide variety of choices in our catering department including banquets, picnics, cookouts, birthday cakes, and party supplies. Call the catering assistant at (828) 262-8011, or (828) 262-6143 to place your order.

Visit our web site at www.foodservices.appstate.edu (click on "Catering") for a complete listing.

APPCARD OFFICE

Electronically encoded APPCARDS are issued from the APPCARD OFFICE in the lower level of Trivette Hall to all students upon their arrival on campus. The cards provide access to campus events and fee-supported services including the use of the library, use of the infirmary, the physical education facilities, Quinn Recreation Center, Mt. Mitchell Fitness Center, Student Recreation Center, and door access to residence halls.

In addition to the official identification function of the card, it also manages two separate debit accounts -the **Meal Account** and the **Appalachian Express Account**.

The **Express Account** is optional and provides for the use of the card to pay for services in all Food Services locations, the University Bookstore, Crossroads Coffee Shop, Wired Scholar, the Infirmary, the Athletic Ticket Office, concessions at football and basketball

Student Life

games, Student Programs, Student Accounts, Belk Library and Information Commons, printers in Computer Labs, copiers (selected copiers in Belk Library), vending, laundry (selected washers and dryers), The Market-Trivette Hall, The Market-Bookstore, and The Market-Panhellenic Hall. Official withdrawal at any time from the University will entitle the student to a refund of unspent funds on her or his Express Account. Refunds will be made only in the case of official withdrawal from Appalachian State University during a semester or by request by the student once per year, to students who request it by the last working day before commencement in May. Account balances carry over from fall to spring. Any balance left at the end of the spring semester will not carry over into summer sessions.

What is the refund policy for the Appalachian Express Account?

A portion of the balance remaining in the Appalachian Express Account at the end of the spring semester in May is refundable. **There is a \$50.00 charge for processing this refund.** For example, an Appalachian Express Account with \$110.00 balance would get a \$60.00 refund. Refunds will be given once per year, to students who request it by the last working day before commencement in May. Requests for refunds must be made through the Food Services Office in Trivette Hall. Refunds will be issued from the Student Accounts Office in John E. Thomas Hall. The telephone number for the APPCARD OFFICE is (828) 262-6141.

University Bookstore

www.bookstore.appstate.edu

Michael G. Coston, Director

The University Bookstore, located in the center of campus, offers a complete line of student supplies including the administration of an undergraduate textbook rental program and sales of supplemental textbooks and lab manuals. As part of the Bookstore, the Scholars Bookshop provides a wide selection of general reading materials, and Mountaineer Media provides periodicals including newspapers and magazines. Computer Central offers educationally discounted prices on recommended Apple and Dell computers. Computer software is also available with educationally discounted pricing. Mountaineer Supply Co. and All About Art offer all school, art, and engineering supplies for class. The Complete Mountaineer has a large selection of Appalachian clothing and gift items. Profits generated by the University Bookstore help provide scholarships for qualified students. The University Bookstore accepts the Appalachian Express Account as well as Master Card, VISA, checks, and cash.

Textbook Rental Program

Undergraduate student fees include textbook rental, entitling students to receive the main textbook for most of the undergraduate courses offered on campus during the fall and spring semesters, and beginning with the summer of 2011, during summer school. Notebooks, workbooks, manuals, supplemental books and the like are not included. Additional required and recommended textbooks must be purchased.

At the end of each semester, rental textbooks must be returned by the day after the last day of exams. For unreturned or damaged books, students are charged the replacement costs. A student who desires may purchase a rental textbook at the end of the semester at a reduced price.

Graduate students and Distance Education students are required to purchase their course materials, including textbooks. These textbooks are available at the University Bookstore.

The average undergraduate student saves hundreds of dollars per semester through the textbook rental program. Students receive the benefit of the rental program for a set fee without regard to the number of courses taken or the books used in a particular term. The financial benefits realized by the students under the rental system are considered to be averaged over a four-year period.

Visit our website for more detailed information at www.bookstore.appstate.edu.

George M. Holmes Convocation Center and Seby B. Jones Arena

www.theholmescenter.com

Jason C. Parker, Director

The purpose of the George M. Holmes Convocation Center is to provide facilities for the Department of Health, Leisure and Exercise Science as well as Appalachian's basketball and volleyball offices and to support the academic processes of Appalachian State University.

Serving as a multi-purpose arena for the northwestern region of North Carolina, the Center will support University-sponsored events, such as commencement and College Fair. Cultural events, concerts, trade shows, athletic events and other public assembly activities will also be a part of the Center's programming.

Since several departments will share the facility, all efforts will be made to accommodate the activities of each department. Because the schedule for the Center will be constantly changing, every effort will be made to keep all concerned updated. University sponsored events such as commencement, convocation, and student recruiting events will have priority over all other events. Please contact the Center's Director for reservations.

Student Financial Aid

Student Financial Aid

Esther Manogin, Director

www.financialaid.appstate.edu

Appalachian State University recognizes that some students do not have the financial resources to meet their educational expenses. Through student financial aid programs, Appalachian makes every effort to assist students in financing their education. With the exception of certain Appalachian academic scholarships, all students interested in receiving financial assistance must complete the **Free Application for Federal Student Aid (FAFSA)**. The student, and at least one parent of a dependent student, must have a U.S. Department of Education PIN to complete the FAFSA. Obtain these PINs at www.pin.ed.gov. Complete the FAFSA at www.fafsa.ed.gov.

In order to receive priority consideration for certain state grants, all students should complete the FAFSA as soon after January 1 as possible and before Appalachian's priority deadline of March 1 for the upcoming year. The FAFSA may be completed after the priority deadline but the student will not receive priority consideration for need-based grants.

Students must reapply for financial aid each year. Financial aid funding does not transfer from one institution to another. It is the student's responsibility to inquire about Appalachian's financial aid application procedures for the academic year or for summer school.

Appalachian State University offers grants, loans and work opportunities for which a student will be considered once the FAFSA data has been received. Several of these programs are briefly described on the following pages. Further information may be obtained at www.financialaid.appstate.edu.

Financial aid recipients should refer to the index for "Refund Policy" for information concerning the return of funds due to withdrawal from the university.

For further information, please visit our web site, www.financialaid.appstate.edu. Our office is open Monday through Friday, 8:00 a.m. to 5:00 p.m., excluding University observed holidays.

Information for Veterans, Dependents of Disabled or Deceased Veterans, and/or Members of National Guard/Reserves

The University is approved for training veterans and dependents of deceased or disabled veterans under the following programs administered by the Department of Veterans Affairs:

- Post 9/11 GI Bill (Chapter 33)
- Marine Gunnery Sergeant John David Fry Scholarship
- Montgomery GI Bill-Active Duty Educational Assistance (Chapter 30)
- Montgomery GI Bill-Selective Reserve Educational Assistance Program (Chapter 1606)
- Reserve Educational Assistance Program (REAP/Chapter 1607)
- Post-Vietnam Era Veterans' Educational Assistance Program (Chapter 32)
- Survivors' and Dependents' Educational Assistance Program (Chapter 35)
- Restored Entitlement Program for Survivors (REPS)
- Vocational Rehabilitation (Chapter 31)

Persons eligible to receive these benefits must process an on-line application www.gibill.va.gov and enrollment data sheet with the Veterans Affairs Coordinator, Office of Student Financial Aid.

Children of disabled or deceased veterans, who are North Carolina residents, may be eligible for a scholarship from the North Carolina Division of Veterans Affairs that pays tuition, some fees, and an allowance for room and meals. Applications may be obtained from a veteran's service officer located in the prospective student's hometown or county.

Members of the National Guard and Selected Reserves may be eligible for tuition assistance. Service members applying for federal tuition assistance must apply online at www.GoArmyEd.com. Members of the North Carolina National Guard may also be eligible for state tuition assistance: applications must be completed online through www.CFNC.org. Information regarding tuition assistance eligibility should be obtained from the service member's unit.

Additional information regarding VA related benefits may be obtained by contacting the Office of Student Financial Aid, Appalachian State University, Boone, NC 28608, (828) 262-2190 or by visiting the Financial Aid website at www.financialaid.appstate.edu and click on the Veterans/Military Education link.

Student Employment Programs

Student employment programs are available to help students pay educational expenses while attending classes. Students participating in the programs are employed in administrative offices, in colleges and academic departments, and in service facilities such as the bookstore, the library, the food service areas, University Recreation, and the Student Union. The on-campus student employment programs consist of the Student Temporary Work Program and the Federal Work-Study Program.

Student Financial Aid

On and off-campus job information is provided by the Student Employment Office located in the Career Development Center in John E. Thomas Hall. One function of this office is to provide referral information for on and off-campus jobs for enrolled students. In addition, the Student Employment Office is responsible for job placement for Federal Work-Study students. The online job board can be accessed at www.studentemployment.appstate.edu. Choose Student Employment to find links to some of our larger campus employers, or choose the Job Board to search for on and off-campus jobs by category.

Generally, students may work up to 10-15 hours per week in University-operated work programs. Work schedules will be arranged by the student and work supervisor with the understanding that class schedules have first priority.

Student Loan Programs

Eligible students must be enrolled at least half-time to receive a federal student loan. Detailed information concerning student loan programs is available at www.financialaid.appstate.edu. General information is available in *The Student Guide* (published by the Department of Education), which may be obtained from any post-secondary institution or by accessing the Office of Student Financial Aid Web Site at www.financialaid.appstate.edu. Loans available to Appalachian students include:

- Federal Perkins Loan (based on financial need)
- Federal Direct Subsidized Loan (based on financial need)
- Federal Direct Unsubsidized Loan (not based on financial need)
- Federal Direct PLUS Loan (parent loan for undergraduate students, not based on financial need)

Grants-In-Aid and Special Talent Awards

In recognition of students with special talents, the University provides grants in fields of activity such as drama, art, forensics, industrial arts, music, and athletics. In addition, many departments have their own scholarship funds for which students should inquire by writing to the department chair. Athletes should write to the coach of a specific sport.

Federal Pell Grant

All undergraduate students who have not received their first baccalaureate degree are applying for a Federal Pell Grant when they complete the FAFSA. In order to qualify for a Pell Grant, students must have exceptional financial need as determined by Federal Methodology and be enrolled for at least three credit hours (not audit or hours classified as "permit"). Amounts awarded are determined by the federal government and the costs associated with attendance.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This grant is awarded to those students with exceptional need. Students must be undergraduate, working toward a first baccalaureate degree and enrolled on at least half-time (not audit hours or hours classified as "permit") each term. Funding for this grant is limited and awarding is subject to funds availability. Complete the FAFSA to apply for the FSEOG.

UNC Campus Scholarship

The UNC Campus Scholarship is available for full-time undergraduate students who are first generation college students, or students from disadvantaged socio-economic backgrounds, or traditionally underrepresented populations. Doctoral students who have completed a FAFSA, are maintaining satisfactory academic progress, are enrolled at least half-time (6 or more credit hours) per semester, have NC residency, are in a degree-granting program of study, and demonstrate financial need may be considered for this scholarship. The scholarship amount is dependent on the number of eligible applicants and the amount of allocated funds each year. Various ethnicities are considered for this scholarship.

UNC Campus Native American Scholarship

This UNC Campus Native American Scholarship is available to Native American undergraduate students who submit a Tribal Card or a Certificate of Blood, have completed a FAFSA, are maintaining satisfactory academic progress, are enrolled full-time (12 or more credit hours), have NC residency, are in a degree-granting program of study, and demonstrate financial need. The scholarship amount is dependent on the number of eligible applicants and the amount of allocated funds each year.

UNC Need-Based Grant (UNCIG)

College Foundation of North Carolina administers this grant and makes awards based on the following: the student must be a North Carolina resident; an undergraduate working toward a first baccalaureate degree; be enrolled for at least half-time (6 or more credit hours; not audit or hours classified as "permit") each term and have substantial financial need. The FAFSA must be submitted no later than the March 1 priority deadline in order for a student to have priority consideration for this grant.

Student Financial Aid

North Carolina Need-Based Grant (NCNB)

In order to be considered for this grant, a student must be a resident of North Carolina and demonstrate exceptional need. This grant may be awarded to undergraduate students who meet the above requirements and are enrolled in at least 6 credit (not audit) hours. The student must complete a FAFSA to apply for the NCNB grant.

North Carolina Education Lottery Scholarship

College Foundation of North Carolina administers this grant and makes awards based on the following: the student must be a North Carolina resident; an undergraduate working toward a first baccalaureate degree; be enrolled at least half-time (6 or more credit hours; not audit or hours classified as "permit") each term; must meet all federal student eligibility criteria; and have financial need according to the North Carolina State Education Assistance Authority (NCSEAA) regulations and State Statute. The FAFSA must be submitted no later than the March 1 priority deadline for priority consideration.

Expenses

Expenses

www.studentaccounts.appstate.edu

Wyatt W. Wells, Director of Student Accounts

Tuition and fees are charged by the semester and are due and payable in advance at the beginning of each semester in accordance with payment instructions issued prior to each semester.

The fees payable each semester, as anticipated at the time of publication of this *Undergraduate Bulletin*, are listed below. With the approval of its governing bodies, the University reserves the right to make changes in these fees when circumstances require.

Semester Tuition and Fees (Estimated Rates 2012-2013)

Charges include tuition and fees applied to student welfare and activities, registration, other included fees and, for undergraduate students only, textbook rental.

	<i>In-state</i>	<i>Out-of-state</i>
Undergraduate students	\$3,144.50	\$9,168.50
Graduate students	\$3,278.50	\$9,184.50

Semester Subsistence Charges

The basic subsistence charge for students residing on-campus, as shown, includes room and standard meal option. All students are offered an optional meal plan. Upperclass students may choose from one of the three meal options available and off-campus students may open a meal account or an express account.

Basic subsistence charge \$3,070.00 (2012-2013)

The application for admission must be accompanied by an application fee of \$55.00 which is not deductible nor refundable.

A non-refundable advance payment of \$100.00 to be applied against the student's tuition and fees must be remitted by each applicant for fall admission by May 1 following the mailing by the University of the notice of acceptance. Failure to remit within this prescribed period will constitute withdrawal of application. A non-refundable housing pre-payment of \$100.00 for students entering Appalachian as freshmen must accompany the advance payment of tuition and fees. The non-refundable housing pre-payment is applied to housing charges at the opening of the first semester of residence.

Part-Time Students

Appalachian State University 2012–2013 Schedule of Estimated Tuition and Fees Per Semester

Undergraduate

Hours	0-5	6-8	9-11	12 & over
In-state	\$ 856.03	\$1,711.97	\$2,701.75	\$3,144.50
Out-of-state	\$2,362.04	\$4,723.99	\$7,219.78	\$9,168.50

Graduate

Hours	0-2	3-5	6-8	9 & over
In-state	\$ 879.95	\$1,384.95	\$2,264.80	\$3,278.50
Out-of-state	\$2,356.45	\$4,337.95	\$6,694.30	\$9,184.50

Students enrolling in an off-campus course conducted by the Office of Extension and Distance Education pay tuition amounts which are set annually by the UNC Board of Governors and are comparable to residential tuition rates. For information regarding specific courses or locations, please call (828) 262-3113.

Miscellaneous Service Charges

Applied Music–Private Lessons (Summer Term)	\$200.00
Credit by examination fee	50.00
Credit for prior learning fee	100.00
Diploma mailing fee	15.00
Late orientation test (each)	5.00
Late payment of tuition and fees	40.00
Returned check charge (each check)	25.00
Transcript fee	5.00
Orientation fee	160.00 (Additional parent orientation fees may also apply.)

Expenses

Special Note Regarding Unpaid Accounts

Before taking final examinations at the close of each semester, a student is expected to settle all accounts. A student may not register for a new semester until all charges have been settled. A student cannot receive a degree, certificate, license, or transcript of credits if any account or loan is delinquent.

Tuition Surcharge

Undergraduate students who initially enrolled at Appalachian State University in the Fall, 1994 and thereafter, must comply with North Carolina Senate Bill 27 (1993 Session Law, as amended). This legislation requires a tuition surcharge of fifty percent (50%) on: 1) all credit hours in excess of one hundred and forty (140) when taken as part of the student's first baccalaureate degree; and 2) all credit hours in excess of one hundred and ten percent (110%) of the number required for a second or subsequent baccalaureate degree.

Included in the calculation of credit hours will be:

- all course work attempted at Appalachian (i.e., courses earned, courses failed, courses repeated, and courses dropped after the UNC system "census" date published in the academic calendar)
- all course work transferred to Appalachian from other collegiate institutions.

Excluded from the calculation will be:

- credit by examination
- advanced placement credit
- military credit
- credit earned through an extension program or during the summer at any member institution of the University of North Carolina.

(Note: Every baccalaureate degree at Appalachian requires a minimum of one hundred and twenty-two credit hours; Appalachian does not offer a baccalaureate degree that requires more than one hundred and twenty-eight credit hours.)

Refund Policy

The term "refund" should be understood to mean either a) the repayment of money received by the University for tuition and fees, or b) a reduction of charges if tuition and fees have not yet been paid.

Withdrawal from the University

If a student withdraws from the University (i.e., discontinues all classes and formally notifies the Registrar's Office), a refund will be made according to the refund table found in the "Refund Policy" link in the *Schedule of Classes* on the Registrar's web site. Go to www.registrar.appstate.edu.

The refund calculation will be based upon the date of official withdrawal from the University. (Students who wish to withdraw should immediately notify the Registrar's Office, located in John E. Thomas Hall.)

The only refund granted is when the student goes through the official withdrawal process from the University, and the meal account money refunded will be from the current semester only.

Returning students who have pre-paid tuition and fees will be due a full refund if they subsequently become academically ineligible to re-enroll. Newly admitted students who do not enroll will be due a full refund LESS any advance payments made as part of the admissions process. Currently enrolled students who are suspended or expelled for disciplinary reasons will be given a pro-rated refund based on the University's published refund schedule for the academic term in question.

Reduction in Class Schedule

If students reduce their class schedules (drop courses) during the first five days of classes (during the "Drop-Add" period), one hundred percent of the difference in tuition and fees between the original and revised schedules, will be automatically credited to their accounts and available for refund. Students who reduce their class schedules (drop courses) after the first five days of classes will not be eligible for a refund.

Tuition and Fees Refund Appeals

In the case of extenuating circumstances that are beyond the student's control, students may appeal for an exception to the Appalachian State University refund policy for tuition and fees. A student must officially withdraw from all courses in question prior to beginning the appeals process. Students wishing to submit an appeal to the Appalachian State University tuition and fees refund policy must submit a completed Tuition and Fees Refund Appeal Form to the attention of the University Registrar, Office of the Registrar, Appalachian State University, P.O. Box 32009, Boone, NC 28608-2009. The Office of the Registrar is located in rooms 105-133 of the John E. Thomas (JET) building. Refund Appeal Forms may be obtained by emailing www.registrar.appstate.edu.

In the event that the withdrawal is completed prior to the end of the term and is for a documented extenuating circumstance related

Expenses

to a medical illness of the student or their immediate family that prevented them from completing their coursework, the appeal may be decided by the University Registrar or designee. All other appeals will be considered by the University Financial Appeals Committee. The Registrar reserves the right to request any appeal be reviewed by the University Financial Appeals Committee. The University does not consider appeals of refunds that are more than a year old.

Financial Aid Recipients - Refund Policy (Return of Funds Due to Withdrawal from the University)

Students who wish to withdraw from the University must contact the Registrar's Office to begin the official withdrawal process and establish a withdrawal date. If a student stops attending all of her/his classes, they are required to officially withdraw from the University. If a student stops attending all of her/his classes but fails to complete the official withdrawal process, that student may be considered as an unofficial withdrawal. This policy applies to official and unofficial withdrawals.

If a student withdraws from the University, the Office of Student Financial Aid is required to calculate the amount of financial aid the student has earned and the amount that is unearned. The unearned portion must be returned to the appropriate financial aid programs according to federal regulations and institutional policy.

If a student withdraws on or before the 60% point of the term, a percentage of her/his financial aid will be calculated as earned and a percentage as unearned on a pro-rata basis.

For example: A student enrolls in a semester that has 113 days in the term, and withdraws on the 18th day of the term; her/his earned and unearned financial aid would be calculated as: 18 days divided by 113 days = 15.9% of financial aid has been earned and 84.1% is unearned.

The unearned amount must be returned to the federal financial aid programs in this order:

- Federal Direct Unsubsidized Loan
- Federal Direct Subsidized Loan
- Federal Perkins Loan
- Federal Direct PLUS Loan
- Federal Direct GRAD PLUS Loan
- Federal PELL Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)

The same policy applies to state, institutional, and other types of aid and will be returned in this order:

- Institutional funds
- State funds
- Outside agency/donor
- The student

The University will return to the appropriate financial aid program the lesser of a student's total amount of unearned aid or the institutional charges of tuition, fees, room, and board. Students are responsible for returning to the appropriate programs any remaining amount.

If the student is required to return funds from the loan programs, those funds will be repaid according to the normal repayment terms of the loan program. If the student is required to return funds to the federal grant programs, the student will be required to return 50% of the federal grant amount that they originally received. If the student is required to return funds from the state, institution, or other sources, the student must return the entire unearned percentage.

If the calculations result in a balance due from the student, a bill will be sent to the student's permanent home address and will be due upon receipt.

If the student is a Federal Direct Loan borrower, the student is required to complete Exit Counseling at the time of the withdrawal. The student may complete the Federal Exit Counseling at www.nsls.gov. The Federal Loan lender(s) will be notified that the student is no longer enrolled, and the loan repayment process will begin. It is important that students understand their rights and responsibilities, and their completion of the required exit counseling will prepare the student for repaying the loan(s).

If the student is a Federal Perkins Loan borrower, the student must contact Educational Corporate Systems, Inc. at 1-888-549-3274 or via email at cservice@ecsi.net to schedule a Perkins Loan Exit Counseling session.

Refunds will not be made to alternative loan lenders unless requested by the student.

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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 residency information.

Initiative. Being classified as a resident for tuition purposes is contingent upon the student’s formally applying for such status and providing all information that the institution may require in making the determination. The appropriate application forms and the dates by which a student must apply can be found at www.registrar.apstate.edu.

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

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

Military personnel. A North Carolinian who serves outside the State in the armed forces does not lose North Carolina domicile simply by reason of such service. And students from the military may prove retention or establishment of residence by reference, as in other cases, to residency acts accompanied by residency 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 ends during an academic term for which the person is enrolled at a State institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence marking the beginning of the grace period.

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

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

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Carolina" and (2) "begins enrollment at a North Carolina public institution of higher education not later than the fall academic term following completion of education prerequisite to admission at such institution."

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

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

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

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

University regulations concerning the classification of students by residence, for purposes of applicable tuition differentials, are set forth in detail in *A Manual to Assist The Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes*. Each enrolled student is responsible for knowing the contents of this manual, which is the controlling administrative statement of policy on the subject. The "Manual" is available for review in the office of the University Residency Officer, located in John Thomas Hall. It is also available on the web at www.appstate.edu (click on "Students," then "Office of the Registrar," then "Residency for Tuition Purposes"). This site contains the "Manual" and appropriate application forms. Questions should be directed to the University Residency Officer at (828) 262-7712.

North Carolina public school teachers. The statute allows an individual who is under contract as a fulltime classroom teacher within the North Carolina public school system (i.e., grades K-12), and who has established domicile in North Carolina, to receive the in-state tuition benefit without meeting the normal twelve month durational period. This exception, however, is conditioned by the following: 1) The individual must have established domicile in North Carolina PRIOR to the academic term for which the benefit is requested; 2) he or she must be under contract as either a fulltime classroom teacher or an educational employee who is paid on the North Carolina "certified teacher salary schedule"; and 3) the courses taken must be limited to either those needed to fulfill the teacher licensure requirements mandated by North Carolina's State Department of Public Instruction, or those relevant to professional development as a K-12 classroom teacher. Note, however, that once the individual has been domiciled in North Carolina for twelve months, the limitations indicated above no longer apply.

Employees of the University of North Carolina system. The statute allows individuals who are full-time employees (faculty or staff) of the University of North Carolina System to receive the in-state tuition benefit without meeting the twelve-month durational requirement. To be eligible, however, the employee must have established domicile within North Carolina, and must have done so prior to the academic term for which the benefit is claimed. This benefit is also granted to the employee's spouse and dependent children. Note, however, that if the benefit is claimed for the spouse or for dependent children, they must also have established domicile in North Carolina PRIOR to the academic term for which the benefit is claimed.

Enrollment Management

Enrollment Management

Susan B. Davies, Associate Vice Chancellor for Enrollment Management

The Division of Enrollment Management is responsible for coordinating the recruitment, scholarship and retention activities of undergraduate students. It is committed to meeting the varied needs of students through an intensely personalized process which identifies and supports their academic interests and needs. It interacts with nearly every agency on campus and within the broader University community and is particularly responsive to supporting the instructional mission of the University.

The Division of Enrollment Management includes the Office of Admissions, the Office of Transfer Articulation, University Scholarships, NCACHE - the North Carolina Appalachian Collaborative for Higher Education (Upward Bound and Pre-Enrollment Programs), and the Registrar's Office.

The Office of Admissions

Lloyd M. Scott, Director

www.admissions.appstate.edu

The Office of Admissions coordinates the recruitment and selection of undergraduate students. It is committed to maintaining and improving the current quality of new students and to sustaining the desired number of entering students each year. The office provides information that will help make prospective students and their support groups aware of Appalachian and its offerings.

Admissions

Appalachian seeks to admit students who are capable of mature, college-level work. As a state-supported institution, the University recognizes its obligation to provide educational opportunities to those who will benefit from them. Consideration of classroom space places a restriction on the number of students who can be admitted to the University. For this reason, students are requested to apply as soon as possible after September 1 of the year preceding enrollment.

Appalachian admits students at the beginning of the fall, spring and summer terms. Any person who wishes to enter the University during any term - fall, spring, or summer, as either an undergraduate or non-degree student should contact the Office of Admissions, Appalachian State University, ASU Box 32004, Boone, NC 28608-2004, or visit the web site, www.admissions.appstate.edu, for full information and application procedures.

Freshman Admission Requirements

Applicants will be considered for first time admission to the freshman class upon meeting the requirements specified below. Those students who have demonstrated the greatest probability of success will be given priority in the selection of the freshman class. Admission is competitive. Requirements are as follows:

1. A properly completed application for undergraduate admission
2. An application fee must be submitted with every application. This fee is neither deductible from the first semester fees nor is it refundable. The application and the application fee may be submitted electronically via www.admissions.appstate.edu.
3. Graduation from an accredited/approved secondary school (If the applicant has not graduated, an equivalency certificate is required.)
4. Presentation of a competitive combination of secondary school grades, class rank and SAT or ACT score as evidenced on an official high school transcript and/or test score document(s). (Scores from non-standard SAT administration for appropriately identified disabled students are also accepted. There are no absolute minimums for high school grade-point average, class rank, or test score—it is the combination of factors that is pertinent. Appalachian requires students taking the SAT or ACT to complete the writing portion of the exam.)
5. Presentation of appropriate high school coursework as specified in the minimum course requirements (MCR) of the University of North Carolina (see below)
6. All applicants are required to submit the following information as required by the UNC System:
 - non-continuous enrollment information for any four month gap in enrollment since high school graduation; and
 - a "Criminal Background Check" if conduct questions on the application are answered affirmatively.
7. A satisfactory health and immunization record once admission has been offered to the student
8. Official college transcript(s) if any college work has been attempted (even if coursework was not completed)

Minimum Course Requirements (MCR) for Undergraduate Admission

(Established by the University of North Carolina Board of Governors)

For applicants less than 24 years of age,

The following high school courses will be required for admission, in addition to an institution's own specific requirements:

Language, six course units including:

- four units in **English** emphasizing grammar, composition, and literature; **and**
- two units of a **language other than English** (for high school graduates of 2004 and beyond)

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Mathematics, four course units including **Algebra I**, **Algebra II**, and **Geometry**, and a **higher level mathematics course for which Algebra II is a prerequisite**. (Effective for high school graduates of 2006 and beyond, a fourth unit of mathematics is required for admission.) Mathematics courses that are approved for the fourth unit minimum requirement include the following: AP Calculus*, AP Statistics*, Pre-Calculus (formerly Advanced Math), Discrete Mathematics, IB Mathematics Level II, Integrated Mathematics IV, and Advanced Functions and Modeling. (*College Board, Advanced Placement Program, and AP are registered trademarks of the College Board Entrance Examination Board.) It is recommended that prospective students take a mathematics course unit in the twelfth grade.

Science, three course units including:

- at least one unit in a life or **biological science** (for example, biology);
- at least one unit in a **physical science** (for example, physical science, chemistry, physics); and
- at least one **laboratory course**

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.

For applicants who are at least 24 years of age

Applicants who are (or will be) at least 24 years of age at the point of intended enrollment may be exempted from the UNC Minimum Course Requirements.

Transfer Admission Requirements

Applicants seeking to transfer from other accredited institutions must submit:

1. A properly completed application for undergraduate admission
2. An application fee must be submitted with every application. This fee is neither deductible from the first semester fees nor is it refundable. The application and the application fee may be submitted electronically via www.admissions.appstate.edu.
3. An official transcript from high school
4. Final/official transcripts from all colleges attended (even if coursework was not completed)
5. All applicants are required to submit the following information as required by the UNC System:
 - non-continuous enrollment information for any four month gap in enrollment since high school graduation; and
 - a "Criminal Background Check" if conduct questions on the application are answered affirmatively.
6. A satisfactory health and immunization record once admission has been offered to the student

Coursework with a "C" or better from a regionally accredited institution that is comparable to the course offerings at Appalachian State University is acceptable as transfer credit. ASU accepts all credit under the guidelines of the North Carolina Comprehensive Articulation Agreement. There are no maximum allowable hours. See "Transfer Credit Policy" at www.ota.appstate.edu.

Transfer applicants must have completed high school Minimum Course Requirements (MCR) of the University of North Carolina.

Prospective transfer students who did not meet the MCR in high school (and will be less than 24 years old at the time of intended enrollment) may be considered for admission to Appalachian if they accomplish one of the following:

1. Earn an Associate of Arts, an Associate of Fine Arts, or an Associate of Science degree; OR
2. Earn a 44 semester hour core (Transfer Core) from a North Carolina Community College; OR
3. Complete six (6) semester hours in each of the areas listed below (all courses must be transferable to Appalachian with a grade of "C" or higher in each):
 - English
 - Mathematics (business-related math courses do not meet requirement)
 - Natural Science (biology, chemistry, physics, or geology, with at least one a laboratory course)
 - Social Science (history, economics, psychology, sociology, political science) and
 - A second language (for those who graduate from high school 2004 or later)

Transfer applicants must be currently eligible to return to the last institution attended.

Because requirements for admission to particular programs of study at Appalachian are sometimes different, transfer applicants should refer to the requirements listed for that program of study within the specific college/school or academic department/program.

NOTE: Prospective students who have attended an accredited college but who have earned less than 30 semester hours of transferable credits may be considered for admission as a transfer student, but they must meet both freshman and transfer admission requirements. This means that in addition to meeting admission requirements for freshmen, they must present a transcript showing an overall 2.00 cumulative grade-point average (as calculated by Appalachian) on all transferable college coursework.

Non-Degree Students

Non-degree applicants must complete the on-line application and pay a nonrefundable application processing fee. Applicants who have a satisfactory record of experience and education may be admitted to courses though they do not plan to pursue a degree. Non-

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degree students are admitted for one term only (space permitting), and must be re-admitted at the beginning of each subsequent term. An individual who has been denied admission as a degree-seeking student may not enroll as a non-degree student during the academic year.

Non-Degree Teacher Certification Students

Non-degree teacher certification applicants must complete the on-line application and pay a nonrefundable application processing fee. Applicants must receive approval form from the Reich College of Education; applicants must hold a four-year degree from an accredited institution and must provide that transcript to the Office of Admissions. Non-degree teacher certification students are accepted on a space available basis.

Second Degree Applicants

Second degree applicants are applicants seeking a second undergraduate degree. Second degree applicants must submit a completed on-line application, and a nonrefundable application fee. Applicants must hold a four-year degree from an accredited institution and must provide that transcript to the Office of Admissions. Second degree students are admitted as transfer students based on space availability.

Graduate Student Admission

For admission and graduation requirements, see the catalog for the Cratis D. Williams Graduate School.

International Student Admission Requirements

An international student wishing to apply for undergraduate admission should first make arrangements in her/his own country to take the Test of English as a Foreign Language (TOEFL), International English Language Testing Service (IELTS), or the Scholastic Assessment Test (SAT). A student whose native language is not English may not be approved for entry as an undergraduate student (even if she/he meets other requirements) until sufficient evidence of English abilities is received. Funds for financial assistance to international students are limited. Therefore, when applying, she/he must complete an affidavit of support (Form I-134) in order to show sufficient financial resources before a Form I-20 may be issued.

All international students must register with the Assistant Director for International Student and Scholar Services upon their arrival on the campus. International students are considered out-of-state students and pay tuition and fees based upon out-of-state rates.

For more information on the admission requirements for international students, please go to www.admissions.appstate.edu and click on the link to international student admission.

Returning Students/Readmission

Returning applicants are former undergraduate Appalachian students that have completed more than 15 semester hours at another institution or have left Appalachian with academic deficiencies. Students who have withdrawn in good standing from the University or who have completed less than 15 semester hours of transfer work since leaving Appalachian should re-enter through the Registrar's Office. Those returning students with **more** than 15 semester hours of transfer coursework completed since leaving Appalachian must reapply through the Office of Admissions.

A completed application includes the following items:

- A completed online application
- A non-refundable application fee of \$55
- Forgiveness Policy Request form
- Official college transcript(s) from any accredited institution attended after leaving Appalachian

Please note that the student's Appalachian transcript will be requested from the Registrar's Office by the Office of Admissions.

Forgiveness Policies

(For former undergraduate Appalachian students)

Former undergraduate Appalachian students may re-enter by means of either one of two forgiveness policies. These policies will permit the student's former cumulative grade-point average to be discounted, thereby allowing the student, upon returning, to begin a new cumulative grade-point average that will be used as the basis for graduation. The policies are:

1. If the student has not attended Appalachian for a minimum of one (1) year (including summer school), she or he will be eligible to apply for readmission to the University if she or he has earned a minimum of thirty (30) **new** semester hours of transferable credit from other collegiate institutions since she or he last attended Appalachian. ("Transferable credit" is defined as coursework that can be used for graduation purposes at Appalachian, and does not repeat an Appalachian course for which credit has been earned.) To determine eligibility for readmission, all the grades earned in transferable coursework at appropriately accredited institutions will be averaged with the grades earned previously at Appalachian and the combined average must be at least 2.0 (on a 4.0 scale) as calculated by Appalachian.

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2. If the student has not attended Appalachian for a minimum of two (2) years (including summer school), she or he will be eligible to apply for readmission if: a) coursework earned at other collegiate institutions during the period of absence from Appalachian has a minimum cumulative grade-point average of 2.0 (on a 4.0 scale) as calculated by Appalachian; OR, b) the student has not taken coursework at any other collegiate institution during the period of absence.

A former undergraduate student may be re-admitted under a forgiveness policy ONLY ONCE during her or his academic career. At no time during the "stopout" period shall the student be dually enrolled at Appalachian and at another institution.

These policies are designed for readmission to the University and do not override specific grade requirements of individual colleges/school and/or departments/programs. Students returning to the University under a forgiveness policy must apply through the Office of Admissions and must complete a minimum of one year in residency (30 semester hours) beyond the date of their readmission.

The Office of Transfer Articulation

Jane M. Rex, Director

The Office of Transfer Articulation (OTA) is responsible for the timely and accurate evaluation of transfer credit. OTA serves as an advocate for transfer students by providing pertinent information to prospective and current students and offers services that aid in the transfer credit process.

Transfer of Credit

Coursework with a "C" or better from a regionally accredited institution that is comparable to the course offerings at Appalachian State University is acceptable as transfer credit. ASU accepts all credit under the guidelines of the North Carolina Comprehensive Articulation Agreement. There are no maximum allowable hours. See "Transfer Credit Policy" at www.ota.appstate.edu.

Types of Credit

AP, CLEP, IB credits may be accepted. See the Admissions website to find the courses and acceptable scores for transfer purposes. www.admissions.appstate.edu/credit-examination-ap-ib-clep

Foreign Coursework

To receive transfer credit from a foreign university, transcripts must be evaluated in English by an agency such as: World Education Services (www.wes.org), Educational Credential Evaluators (www.ece.org/), Josef Silny & Associates (www.jsilny.com) or Global Credential Evaluators (www.gceus.com) and provide course descriptions or syllabi (in English).

Military Credit

The Office of Transfer Articulation will accept and review transfer credit from Army/American Council on Education and SMART transcripts. OTA will evaluate and post any acceptable coursework to the student's record, following the current recommendation of ACE for upper division level credit. Elective credit will be awarded and, where applicable, students may petition for the coursework to meet certain ASU requirements. For more information regarding military credit, visit the American Council on Education.

With the submission of a DD214 long form and appropriate discharge, Appalachian will award up to 8 hours of the following Military Science credit:

- MSL 1001 (1 semester hour)
- MSL 1002 (1 semester hour)
- MSL 1101 (2 semester hours)--General Education Wellness Literacy credit
- MSL 2001 (2 semester hours)
- MSL 2002 (2 semester hours)

The same applies to active duty applicants who submit their current DD220 indicating completion of basic training. All applicants should submit documentation directly to the Admissions Office preferably during the application process.

North Carolina Community College Articulation Agreement (CAA)

Effective Fall 1997, the the North Carolina Community College System and the University of North Carolina System established the Comprehensive Articulation Agreement (CAA) which enables students to meet the lower level general education requirements at UNC system institutions by completing the Associate in Arts, Associate in Science or the 44 hour core with a GPA of at least a 2.0 on a 4.0 scale and a grade of "C" or better in all CAA courses. Degrees awarded prior to 1997 will be evaluated on an individual basis. Completion of the general education requirements does not guarantee admissibility to the institution or to specific programs. Note: Students who earn the Associate in Arts, the Associate in Science, the Associate in Fine Arts, or the 44 core requirements defined by the North Carolina Comprehensive Articulation Agreement are exempt from the UNC Minimum Course Requirements (MCR's).

For more detailed information regarding the CAA go to:

www.nccommunitycolleges.edu/programs/docs/CollegeTransfer/102.51CAA_Modified_June_2010_v4.pdf

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Evaluation of Out-of-State Associate's Degree - see the "Academic Regulations" section of this catalog.

Course Equivalency Information

The following link will allow you to search for courses from other institutions and determine how they transfer to Appalachian. This is not a comprehensive listing. Contact the Office of Transfer Articulation if a course is not available.

www.bannerweb.appstate.edu/pls/PROD/bzsktran.P_Select_term

Petition for Equivalent Credit

A student may petition transfer credit for ASU courses that are designated as "elective credit" after the initial credit evaluation is completed by the Office of Transfer Articulation. The student may petition to have the course equated to a specific ASU course, by initiating the Transfer Coursework Petition process.

For detailed instructions and access to the form, go to www.ota.appstate.edu/current-students/petition-credit-0.

Petition for General Education Credit

A student may petition transfer credit for the purpose of meeting general education requirements after the initial credit evaluation is completed by the Office of Transfer Articulation. A student may petition to have the course reviewed for theme or designation credit. Requests for general education credit must be submitted directly to the Office of General Education with the required syllabus/course documentation. For additional information, contact the General Education Office at 828-262-2028.

Visiting Coursework

Once an undergraduate student has enrolled as a degree-seeking student at Appalachian, she or he should NOT enroll as a visiting student at another collegiate institution unless prior approval has been received from Appalachian. A student who wishes to attend another collegiate institution should contact the Office of Transfer Articulation at Appalachian to: 1) secure the proper application form, and 2) determine whether the intended transfer course(s) are transferrable and applicable to the student's major, and 3) receive approval from the Dean's office to take the course away from Appalachian. The student should consult with an advisor to confirm that the course is applicable to the major. **Failure to obtain prior approval may result in the coursework being deemed unacceptable for transfer to Appalachian.**

Study Abroad - see www.international.appstate.edu.

University Scholarships

Meredith Bazemore, Director

The Office of Admissions acts as a clearinghouse for merit-based scholarships for incoming students and works with the Director of University Scholarships to identify scholarship recipients. Currently enrolled students should contact their department, college/school, or program of study for information about scholarships available to them. Graduate students should contact the Cratis D. Williams Graduate School to inquire about scholarship opportunities.

Incoming students will be invited to apply for merit scholarships based on their Admissions application. The deadline for merit scholarships coincides with the Admissions First Notification Period deadline and information concerning Admissions deadlines can be found at www.admissions.appstate.edu. Applicants are expected to provide evidence of superior academic performance; other requirements vary.

Applicants should consult the scholarships web site at www.scholarships.appstate.edu for more detailed information on scholarship specific requirements and information regarding major-specific scholarships.

Chancellor's Scholarships

(Awarded only to incoming freshmen accepted into the Honors College) Appalachian State University annually offers a small number of Chancellor's scholarships to excellent students in all majors. Scholarships are renewable for up to three years provided a 3.45 grade-point average is maintained. Scholarships are awarded on the basis of high school achievement, leadership, service, creativity, athletic, and research experience. Students will be invited to apply for the Chancellor's Scholarship based on their Admissions application. The Admissions application must be completed by November 15 to be considered for the Chancellor's Scholarship. Application is through the University Scholarships application portal. Several essays, a resume, and two letters of recommendation are required; finalists are interviewed. During their first two years, Chancellor's Scholars are required to take at least one honors course each semester. Thereafter, they are encouraged to continue to pursue graduation with University Honors. They also take the Chancellor's Scholars course, HON 3531. Selected Topics: "Voyages".

For further information regarding the Chancellor's Scholarships, contact Dr. Leslie Sargent Jones, Director of the Honors College at (828) 262-2083 or visit the Honors College website at www.honors.appstate.edu/admissions/chancellors-scholarship.

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North Carolina Appalachian Collaborative for Higher Education

www.gocollege.appstate.edu

Jennifer Wilson-Kearse, Interim Director

NCACHE (North Carolina Appalachian Collaborative for Higher Education), a member of the Appalachian Higher Education Network (AHEN), is a collaborative for college access programming, public schools, and higher education in western North Carolina. NCACHE serves as a clearinghouse of information and activities related to improving access to higher education by providing the following: a Directory of College Preparation Opportunities; a list of funding opportunities for K-12 schools in North Carolina; and Pre-Enrollment Programs. Housed at Appalachian State University, NCACHE serves the Appalachian region of North Carolina and provides opportunities for high schools in the twenty-nine Appalachian Regional Commission counties in North Carolina to apply for mini-grants to establish College Access programs on their high school campus.

UPWARD BOUND and UPWARD BOUND MATH SCIENCE are funded by the U.S. Department of Education and are designed to assist financially eligible high school students in preparing academically and personally for post-secondary education. The students selected for the project meet specific financial and educational guidelines and receive academic support services, personal and cultural development opportunities and participate in a six-week summer residential component. The project recruits and selects participants from area high schools: Ashe County High School, Avery County High School, Watauga County High School, Wilkes County High Schools, Freedom High School, and Alleghany County High School. Participants in the project submit application materials as 9th or 10th graders, and once selected take part in year-round programming opportunities until graduation from high school. Upon graduation, participants who meet regular admissions requirements attend summer school at Appalachian and earn six credit hours towards a college degree. Upward Bound provides an opportunity for Appalachian students to serve as mentors and as tutors to youth in this region.

For further information, visit the NCACHE web site at www.gocollege.appstate.edu.

The Registrar's Office

www.registrar.appstate.edu

Andrea C. Wawrzusin, University Registrar

The Registrar's Office serves as the official depository for all academic records, undergraduate and graduate. In maintaining the academic record, the Office seeks to insure accuracy, completeness, and confidentiality. Specific responsibilities assigned to the Registrar's Office include the following: plan and implement registration for classes; compile and maintain the academic record; provide both official and unofficial transcripts of the academic record to students, appropriate persons, and agencies; certify enrollment status at the University; process official withdrawals from the University; evaluate coursework to be taken at other collegiate institutions by Appalachian students; determine residency status for the purpose of tuition; plan and manage the University's Fall Convocation Ceremony; plan and manage the University's commencement ceremonies held at the end of the fall and spring semesters; receive, process, and track applications for graduation at both the undergraduate and graduate levels; and process former students who wish to re-enroll. In addition to those responsibilities, the Registrar's Office is also formally involved in the consultation, development, and implementation of effective and secure electronic solutions to all problems which require access to and the use of student data.

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The Instructional Program

The instructional program at Appalachian State University is diversified, attempting to meet the needs of many types of students. In addition to the course offerings listed under each instructional department/program, students may elect to do independent study under the direction of selected faculty members, to participate in an internship, or to participate in the University honors program. Detailed information on each of these options is given in appropriate sections of this *Undergraduate Bulletin*.

The *Undergraduate Bulletin* is issued annually for the academic year, fall through subsequent summer; and, while course offerings are fairly continuous from year to year, the University reserves the right to make changes in curricula, degree requirements, and academic policies. The information in any given catalog/bulletin is, therefore, usually valid for the one-year period of its issue, and is superseded by subsequent issues. While changes in degree requirements do not affect a student already enrolled in a degree program, changes in academic policies become effective for all students on the date approved for implementation. Any interested person should consult the most recent issue of the *Undergraduate Bulletin* for current information about the instructional program.

In selecting a catalog, students must meet the following guidelines:

1. All students may elect to graduate in accordance with the degree requirements as recorded in the catalog/bulletin that is current at the time of their first registration or any subsequent edition under the following conditions:
 - a. The student is enrolled during a period in which the catalog/bulletin is in force.
 - b. Any catalog chosen must not be more than ten years old (for example, the 2011-2012 catalog is valid through summer of 2021).
2. Students must meet all requirements of the catalog/bulletin under which they wish to graduate except under the following conditions:
 - a. Students who entered under a catalog prior to Fall 2009 should be allowed to move to a catalog dated Fall 2009 or later without being required to complete the 44 semester hour General Education program if it is determined by the appropriate Dean's office to be in the best interest of the student. In these situations, the student will be required to complete the Core Curriculum in its entirety as well as the Writing in the Discipline (WID) and the Capstone course in the General Education program. This policy is in effect for those students who entered the University prior to Fall 2009 and expires after Summer 2018.
 - b. In those rare cases where specific required courses are no longer available, the appropriate Dean's office will identify suitable substitutes in the student's major/minor/concentration and Core Curriculum which do not increase the overall credit requirements.
 - c. In those rare cases where specific required courses are no longer available, the Director of General Education will identify suitable substitutes for General Education requirements which do not increase the overall credit requirements.

In order to change the catalog/bulletin under which they intend to graduate, students must notify the office of the dean of the college/school in which they are enrolled, or the University College Academic Advising Office if they have not declared a major.

This policy applies to all Appalachian State University students, including but not limited to continuing students, returning students, and second degree seeking students; it is also applicable to students returning under one of the University forgiveness policies.

Registration at Appalachian indicates the student's willingness to accept both published academic regulations and rules found in official announcements of the University.

In the interest of all its students, Appalachian reserves the right to decline admission, to suspend, or to require the withdrawal of a student when such action is, by due process, deemed in the interest of the University.

Policies and Procedures Concerning the Release of Student Information

- I. Purpose and scope of the statement:
 - A. Purpose—This statement establishes updated guidelines for the University on the matter of confidentiality of student records. It has been developed in the light of legislation concerning access to and release of information maintained in student records in institutions of higher learning (the Family Educational Rights and Privacy Act of 1974). Any questions on these policies should be referred to the University Registrar.
 - B. Scope—These policies encompass all student records maintained by the University. They apply to all students, current or former, at Appalachian State University.
- II. University policy regarding confidentiality of student information:
 - A. In response to inquiries from the general public, such as prospective employers, credit investigators, etc., only the following directory information is released without the student's permission:
"the student's name; local and permanent telephone listing; permanent address; University post office box number; E-mail address; academic classification; enrollment status during a particular academic term (i.e., full-time or part-time); field(s) of

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study; dates of attendance; degrees, honors and awards received; participation in officially recognized activities and sports; weight, height, athletic statistics and photographic representations of members of athletic teams.”

- B. Transcripts are released only upon the written request of the student. Transcripts will not be released if the student is financially indebted to the University.
- C. A student has the right to inspect the contents of her/his educational records with the exception of documents submitted to the University in confidence prior to January 1, 1975. Transcripts on file from other institutions are property of Appalachian and will not be returned to the student or sent elsewhere at her/his request.
- D. If parents or guardians request academic or personal information other than that specified in statement II.A., the request will not be honored without the student’s written permission unless the parent can present evidence of the student’s being dependent upon the parent for support as defined by the Federal Internal Revenue code.
- E. As of January 3, 2012, the U.S. Department of Education’s FERPA regulations expand the circumstances under which a student’s education records and personally identifiable information (PII) contained in such records — including a student’s Social Security Number, grades, or other private information — may be accessed without the student’s consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities (“Federal and State Authorities”) may allow access to a student’s records and PII without the student’s consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is “principally engaged in the provision of education,” such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to a student’s education records and PII without the student’s consent to researchers performing certain types of studies, in certain cases even when the University objects to or does not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive a student’s PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without a student’s consent PII from the student’s education records, and they may track a student’s participation in education and other programs by linking such PII to other personal information about the student that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

Students’ Education Records at The University of North Carolina General Administration

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 The University of North Carolina General Administration are subject to the federal Family Educational Rights and Privacy Act of 1974 (FERPA).

FERPA provides that a student may inspect her or his education records. If the student finds the records to be inaccurate, misleading, or otherwise in violation of the student’s 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 The University of North Carolina 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 The UNC General Administration may also be accessed in the Office of the Secretary of The University of North Carolina General Administration.

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

Evaluation of Out-of-State Associate’s Degrees

A student who has earned an associate’s degree from another state may request that the Office of Transfer Articulation initiate a review of her or his coursework to determine if the student should be granted credit for completion of Appalachian’s General Education Program. A committee of three people (Director of the Office of Transfer Articulation, Director of General Education, and Assistant Director of General Education) will evaluate the coursework using the guidelines below. If the committee determines that the coursework satisfies the guidelines, it will notify the student and her or his advisor and instruct the transfer evaluators in the Office of Transfer Articulation to add credit for GEP MET (Appalachian’s designation for an associate’s degree which fulfills all requirements of the General Education Program) to the student’s record.

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Completion of the following coursework, with a grade of “C” or better in each course, will fulfill the requirements of the General Education Program. These guidelines mirror those most frequently completed by students to complete the North Carolina General Education Core, which forms the basis of AA and AS degrees in the North Carolina Community College System.

44 semester hours in general education courses, including the following specific areas:

- 8 hours (2 courses, with labs) in Natural Science
- 3 hours in Math
- 3 hours in Math, Computer Information Systems, or Statistics
- 6 hours in English Composition
- 12 hours of Humanities/Fine Arts in at least 3 disciplines; 3 hours must be Literature
- 12 hours of Social/Behavioral Sciences in at least 3 disciplines; 3 hours must be History

Degree Requirements

Students should refer to the requirements of their respective college/school for information about their programs of study and confer with their advisors whenever problems arise.

Students should pursue required courses in the suggested sequence. Failure to do so may lead to scheduling difficulties and students may find that the subjects for which they wish to enroll are either not available or closed to students with advanced standing.

A minimum cumulative grade-point average of 2.00 must be earned in major courses taken at Appalachian.

Statement Concerning the Normal Number of Hours and Length of Time Required to Attain the Baccalaureate Degree

A baccalaureate degree at Appalachian typically requires 122-128 semester hours of course work. Students who satisfactorily complete an average of 15-16 hours per semester can complete the degree in four years (eight semesters). Factors that may increase the length of time for an individual student to complete a degree include: (1) taking less than the hours advised or averaging fewer than 15-16 credit hours per semester; (2) changing majors frequently; (3) dropping, failing, and repeating courses; (4) failing to meet course prerequisites; (5) taking unnecessary or inappropriate courses; (6) transferring from one institution to another; (7) adding a second academic concentration or a second minor; (8) delaying entry into academic programs; (9) withdrawing from school; and (10) entering the institution with an incomplete or inadequate secondary school background requiring some additional compensatory, developmental, or prerequisite courses. As mandated by the North Carolina General Assembly, students enrolling in more than 140 semester hours for the first baccalaureate degree will be assessed a 50% tuition surcharge on the excess hours.

Students are encouraged to take full advantage of the University's advising and support services to ensure continuous progress toward graduation. Effective career decision-making, long-range semester-by-semester planning of courses, and careful selection of extracurricular commitments can provide direction and motivation necessary for effective use of time to graduation. Additional factors that may assure a student's continuous progress toward graduation include good academic performance in freshman and basic prerequisite courses, advanced placement credit for introductory courses, and enrollment in summer sessions.

Courses of Instruction

Course Numbering. Courses are listed in numerical order within each academic discipline. Courses numbered 0001-0999 are developmental; 1000-1999 are normally for freshmen; 2000-2999 are normally for sophomores; 3000-3999 are normally for juniors; 4000-4999 are normally for seniors; and those numbered 5000 and above are only for graduate students. NOTE: With the exception of graduate classes, the numbering system does not preclude the possibility of students taking courses above or below the level of their classification, provided that they meet course prerequisites and/or any special requirements of the degree-granting college/school.

The figure in parentheses after the course title tells the credit in semester hours; for example, the figure (3) means three semester hours.

Semesters of the year in which the course is offered are represented by symbols: “F” for Fall semester, “S” for Spring semester and “SS” for a Summer Session.

A hyphen in the course number, credit, and semesters of the year in which the course is offered indicates that the course extends through more than one semester and that the preceding semester must be completed before the following semester can be taken.

The comma in the course number, credit, and semesters indicates that the course is continuous but that one semester may be taken independently of another.

The semicolon in the semesters offered indicates that the course is a one-semester course and is repeated in a subsequent semester. If the course is a two-semester sequence, the semicolon in the semester offered indicates that all courses listed are normally taught in the semesters indicated. Special requirements for admission to a course are stated after the word prerequisite.

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Cross-Listed Courses. Certain courses are cross-listed with multiple departments using the same course number and covering the same content (e.g. ANT 4220/PS 4220). Students enroll for the course through their major department in order to fulfill specific discipline requirements for their program. Cross-listed courses are noted in the course descriptions as follows: (Same as ANT 4220.) or (Same as PS 4220.)

Dual-Listed Courses. Selected courses are noted as being dual-listed. Each undergraduate dual-listed course has a concurrent graduate equivalent and students in the two courses meet in one classroom. Graduate students who are enrolled in a dual-listed course are expected to complete extra assignments above and beyond those that are assigned to the undergraduates in the class. The syllabus for a dual-listed course will clearly state the learning outcomes for both constituencies, as well as identifying any differences in the assessments. Undergraduate participation in these courses is restricted to seniors. Juniors may petition the department for permission to enroll in these courses. Dual-listed courses are noted in the course descriptions as follows: “[Dual-listed with XXX 5xxx.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.”

Course Prefixes

ACC	Accounting	GER	German	MUS	Music
AMU	Applied Music	GHY	Geography	NUR	Nursing
ANT	Anthropology	GLS	Global Studies	NUT	Nutrition
ARB	Arabic	GLY	Geology	PA	Public Administration
ART	Art	GRA	Graphic Arts and Imaging Technology	PE	Physical Education
AS	Appalachian Studies	GS	General Science	PHL	Philosophy
AST	Astronomy	HCM	Health Care Management	PHY	Physics
AT	Athletic Training	HE	Higher Education	PLN	Community and Regional Planning
BE	Business Education	HED	Health Education	POM	Production/Operations Management
BIO	Biology	HIS	History	POR	Portuguese
BUS	Business	HON	Honors	PS	Political Science
CHE	Chemistry	HOS	Hospitality Management	PSY	Psychology
CHN	Chinese	HP	Health Promotion	RE	Reading
CI	Curriculum and Instruction	HPC	Human Development and Psychological	REL	Religious Studies
CIS	Computer Information Systems		Counseling	RES	Research
CJ	Criminal Justice	IDS	Interdisciplinary Studies	RM	Recreation Management
COM	Communication	IND	Industrial Design	RSN	Russian
CS	Computer Science	INT	Interior Design	SCM	Supply Chain Management
CSD	Communication Sciences and Disorders	ITC	Instructional Technology/Computers	SD	Sustainable Development
DAN	Dance	JPN	Japanese	SNH	Spanish
ECO	Economics	LAT	Latin	SOC	Sociology
EDL	Educational Leadership	LAW	Law	SPE	Special Education
ENG	English	LIB	Library Science	STT	Statistics
ENV	Environmental Science	LLC	Languages, Literatures, and Cultures	SW	Social Work
ES	Exercise Science	LSA	Leadership in School Administration	TEC	Technology
FCS	Family and Consumer Sciences	MAT	Mathematics	THR	Theatre
FDN	Foundations of Education	MBA	Master of Business Administration	UCO	University College
FER	Fermentation Sciences	MGT	Management	US	University Studies
FIN	Finance, Banking and Insurance	MKT	Marketing	WGC	Watauga Global Community
FRE	French	MSL	Military Science and Leadership	WS	Women's Studies

The University reserves the right to cancel any course for which there is insufficient enrollment.

Standards of Scholarship

In its mission statement, Appalachian State University aims at “providing undergraduate students a rigorous liberal education that emphasizes transferable skills and preparation for professional careers” as well as “maintaining a faculty whose members serve as excellent teachers and scholarly mentors for their students.” Such rigor means that the foremost activity of Appalachian students is an intense engagement with their courses. In practical terms, students should expect to spend two to three hours of studying for every hour of class time. Hence, a fifteen hour academic load might reasonably require between 30 and 45 hours per week of out-of-class work.

In all work for a degree, scholarly performance is expected. The student is expected to demonstrate academic competence, intellectual honesty and responsibility, a willingness to do more than the minimum required, and the ability to think critically and constructively. State statutes concerning standards of scholarship are as follows:

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14-118.2. Assisting, etc., in obtaining academic credit by fraudulent means.

- (a) It shall be unlawful for any person, firm, corporation or association to assist any student, or advertise, offer or attempt to assist any student, in obtaining or in attempting to obtain, by fraudulent means, any academic credit, or any diploma, certificate or other instrument purporting to confer any literary, scientific, professional, technical or other degree in any course of study in any university, college, academy or other educational institution. The activity prohibited by this subsection includes, but is not limited to, preparing or advertising, offering, or attempting to prepare a term paper, thesis, or dissertation for another and impersonating or advertising, offering or attempting to impersonate another in taking or attempting to take an examination.
- (b) Any person, firm, corporation or association violating any of the provisions of this section shall be guilty of a misdemeanor punishable by a fine of not to exceed five hundred dollars (\$500.00), imprisonment for not more than six months, or both. Provided, however, the provisions of this section shall not apply to the acts of one student in assisting another student as herein defined if the former is duly registered in an educational institution and is subject to the disciplinary authority thereof. (1963, c.781; 1969, c. 1224, s.7.)

Registration

The majority of students entering the University do so at established semester periods. To provide for the orderly processing of these registrations, specific times have been set by the Registrar's Office as the "beginning" and "ending" of the registration period. Students are expected to register at the time specified by the Registrar's Office. Registration schedules are announced and registration materials are made available by the Registrar's Office.

Academic Load

An undergraduate student usually takes from 15 to 18 hours a semester. In special situations, an undergraduate student may take more than 18 hours a semester. To do this, the student must have prior approval of the dean of the college in which she/he is enrolled or the Director of Academic Advising if she/he has not declared a major. Registration for less than 12 semester hours places the student on part-time status.

An undergraduate student must take 12 semester hours during a regular semester (and if in summer school, six semester hours each session) in order to be classified as full-time.

The maximum course load for graduate students during the regular academic year is 15 hours per semester for students without assistantships, and 9-12 hours for those holding assistantships. For the summer session, the course load is six semester hours. Graduate degree candidates may not earn more than 12 hours for the entire summer.

Auditing a Course

Students enrolled at the University or students admitted with satisfactory records of experience and education may enroll for specific courses as auditors. Students who audit courses must register in the Registrar's Office, pay regular fees, be regular in attendance, but will not receive grades or credit. A "Request to Audit" form is available in the Registrar's Office. It must be completed by the student, approved by the faculty member teaching the class, and submitted to the Registrar's Office by no later than the end of the "Drop-Add Period" indicated in the published *Schedule of Classes*.

Credits

Appalachian operates on the semester system with the year divided into two semesters and a summer session, which is divided into terms of varying lengths. The unit of credit is the semester hour, and the number of semester hours credit for each course offered by the University is given in the sections of this *Undergraduate Bulletin* where courses of instruction are listed.

Grades and Grade-Point Average

The grade-point average (GPA) is a general measure of the student's academic achievement. The GPA is determined by dividing the total number of quality points earned by the total number of quality hours attempted ("quality points" and "quality hours" are derived from courses graded A-F or WF). The GPA is computed only on the basis of coursework taken at Appalachian. Undergraduate grades and grade points are given as follows:

A	Excellent	4.0 grade points per semester hour
A-	Excellent	3.7 grade points per semester hour
B+	Above Average	3.3 grade points per semester hour
B	Above Average	3.0 grade points per semester hour
B-	Above Average	2.7 grade points per semester hour
C+	Average	2.3 grade points per semester hour
C	Average	2.0 grade points per semester hour
C-	Average	1.7 grade points per semester hour

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- D+ Below Average, but passing 1.3 grade points per semester hour
- D Below Average, but passing 1.0 grade point per semester hour
- D- Below Average, but passing 0.7 grade point per semester hour
- F Failing grade 0.0 grade points
- AU Audit, no credit
- CR Credit awarded for non-residential activity - not calculated in GPA
- I Incomplete, assigned only because of sickness or some other unavoidable cause.
An "I" becomes an "F" or "U" if not removed within the time designated by the instructor, not to exceed one semester, except that all incompletes must be removed at the time of graduation. An Incomplete is not given merely because assignments were not completed during the semester.
- IP In Progress - assigned to a course that encompasses more than one academic term
- NC No Credit Awarded
- NG Non-graded laboratory course
- NR Grade Not Reported (*hours not counted in computing GPA*)
- P Pass - course taken on a Pass-Fail basis not calculated in the GPA (*used only for courses taken on Pass-Fail basis*)
- S Satisfactory - passing grade assigned to designated courses (e.g. thesis, internship, practicum), not calculated in the GPA (*The grade of "S" is used to indicate satisfactory performance in student teaching, screening proficiencies, and specially designated courses in the curriculum.*)
- SA Credit awarded for Study Abroad activities
- SP Satisfactory Progress - graduate specific grade given for thesis hours until final approval by the Dean of Research and Graduate Studies
- U Unsatisfactory - failing grade assigned to designated courses (e.g. thesis, internship, practicum), not calculated in the GPA (*The grade of "U" is used to indicate unsatisfactory performance in student teaching, screening proficiencies, and specially designated courses in the curriculum*)
- UP Unsatisfactory Progress - graduate specific grade given for thesis hours; students assigned a grade of UP must seek permission to continue to enroll in thesis hours
- W Withdrawal from the University, no academic penalty
- WC Withdrawn Course - withdrawal from individual course, no academic penalty
- WF Withdrawal Failing - student withdrew from the University during the period of academic penalty, was failing the course at the time of withdrawal, grade calculated in GPA (*course dropped with failing grades more than nine weeks after registration closes*)
- WP Withdrawal Passing - student withdrew from the University during a period of academic penalty, was passing the course at the time of withdrawal, grade not calculated in GPA
- WU Withdrawal Unsatisfactory - student withdrew from the University during a period of academic penalty, was failing the course at the time of withdrawal, grade not calculated in GPA

Grade-Point Average and Repeat Policy

The grade-point average (GPA) is a general measure of the student's academic achievement while at Appalachian. The GPA is determined by dividing the total number of quality points earned by the total number of quality hours attempted ("quality points" and "quality hours" are derived from courses graded A-B-C-D-F or WF). The GPA is computed only on the basis of coursework taken at Appalachian.

Students may, for a variety of reasons, elect to repeat a course. If a student so elects, the following policies will govern the awarding of credit and the computation of her or his GPA:

1. Credit hours earned in a particular course will not be awarded more than one time; i.e., if a course in which credit hours have been earned is repeated with a passing grade, additional credit hours will not be awarded. If, however, a course in which credit hours have been earned is repeated with a grade of "F", "U", or "WF", the hours earned initially will be subtracted from the student's total.
2. When a course is repeated, the grade earned in the **initial attempt** can be excluded from computation in the student's GPA for a maximum of four (4) courses. (Note: If a grade is excluded from GPA computation when repeated, it remains on the academic transcript.)
3. The student must indicate to the Registrar's Office, in writing, which courses are to be excluded from GPA computation under this policy. A repeat form must be submitted to the Registrar's Office no later than the last day of the final exam period during the term in which the course is repeated.
4. A course may not be repeated if the content has changed substantially, or if the number of credit hours has been reduced.
5. If neither the number nor the title of a course has changed but the content has changed substantially, it will be the responsibility of the chair of the department in which the course is offered to notify the Registrar that a student who took the course prior to the change in content may not repeat the course for credit.

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Pass-Fail Grading Option

Any undergraduate student who is: 1) full-time (registered for 12 or more semester hours); 2) has attained at least sophomore standing (earned at least 30 semester hours); and 3) is in "good academic standing" (see "Academic Standing-Probation and Suspension Policy" in this publication), may elect to take one course each semester under the pass-fail grading system, **not to exceed a maximum of six (6) pass-fail courses while enrolled at the University.** Any undergraduate course may be chosen under this option, except those courses used to comprise the total hour requirements of the student's major, minor, general education, and foreign language requirements. In essence, the pass-fail grading system is intended only for "free elective" credit. It is the responsibility of the student to make sure that she/he does not violate this limitation. Graduate students may not elect the pass-fail option. If a course taken under the A-B-C-D-F grading system is repeated, it must be repeated under the A-B-C-D-F system.

A student who elects the pass-fail option will be allowed to drop the option through the first nine weeks of a fall or spring term, and thus receive the letter grade (A-F) earned at the end of the term. However, once the pass-fail option is elected for a given course, a change to another course may not be made. Because of the length of the summer terms, there are no provisions for removing the pass-fail option after it has been selected for a course.

A grade of "P" means that the student's grade was equal to a "D" or above on a conventional grading scale. The hours earned will count toward graduation but the grade will not be computed in his/her grade-point average. A grade of "F" means that the student failed the course. No credit is earned, but the grade of "F" is computed in the student's grade-point average as an "F".

Students should also be aware of the disadvantages which could result from using the pass-fail option (e.g., many graduate schools will not accept transcripts containing a "P" notation.)

In order to choose the pass-fail option in a course, the student must obtain a special pass-fail form from the Registrar's Office. It must be completed and turned in to the Registrar's Office prior to the close of the period during which a course may be added.

Residency Requirements

With some exceptions, coursework is defined as "in residence" when registration is through the University. The physical location at which the course is delivered, whether in Boone or through a field-based program, does not affect this definition. The following types of courses, however, are not considered "in residence": transfer credit, credit by examination, credit for life experience, credit for military experience, credit while enrolled in a non-degree status, and "institutional" credit.

To graduate from Appalachian, an undergraduate student must complete the following in residence:

1. as a minimum, the final thirty (30) semester hours (Students who study abroad on an Appalachian-approved exchange or study abroad program are excluded from this provision.); and
2. a minimum of eighteen (18) semester hours in the major and (if applicable) nine (9) semester hours in the minor; and,
3. at least 25% of the credit hours required for the degree.

Individual academic programs may specify particular courses that must be taken in residence. A student who intends to transfer coursework from other collegiate institutions should consult the program of study for her or his intended degree program.

Walker College of Business majors must complete in residence at least fifty percent of the business coursework required for the BSBA degree.

Questions about residence requirements should be directed to the dean of the college/school under which the degree program is offered.

Credit Limitations

1. A maximum of 20 semester hours of correspondence work from recognized institutions may be credited toward meeting the requirements for graduation. Some correspondence courses are offered by the University. Before registering at another accredited institution for a correspondence course to be transferred to Appalachian, students must have the written permission of the dean of their college/school or their academic advisor if they have not declared a major. In order to obtain this permission, the student must first secure the proper form from the Office of Transfer Articulation. The combined load of residence courses and correspondence courses may not exceed the maximum load allowed.
2. Except for physical education majors, no more than six hours in physical education activity courses (limited to courses numbered PE 1700-1877) may be included within the number of hours required for graduation.
3. A candidate for the Bachelor of Arts degree may count no more than a total of 46 semester hours above general education requirements in any one discipline.
4. Validation of credits earned more than 10 years prior to the date of graduation may be required if and when they are submitted to fulfill baccalaureate degree requirements.
5. All baccalaureate degrees granted by Appalachian require the completion of **a minimum of 50 semester hours at a senior college or university.** (Note that credit awarded for credit by exam, military service, or "Life Experience" does not count as part of the required 50 hours.)

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- 6. Transfer of Coursework:** Once an undergraduate student has enrolled as a degree-seeking student at Appalachian, she or he should NOT enroll as a visiting student at another collegiate institution unless prior approval has been received from Appalachian. A student who wishes to attend another collegiate institution should contact the Office of Transfer Articulation at Appalachian to: 1) secure the proper application form, and 2) determine whether the intended transfer courses are acceptable. [Students who wish to study abroad should contact the Office of International Education and Development (OIED) to secure the proper application and determine whether the intended courses from abroad are acceptable.] The intended coursework, once evaluated, will be forwarded to the appropriate Appalachian college/school or to the University College Academic Advising Office for approval. **Failure to obtain prior approval may result in the coursework being deemed unacceptable for transfer to Appalachian.**
- 7. Undergraduate Enrollment in Graduate Level Courses:** Students enrolled as undergraduates at Appalachian State University may request permission to take graduate courses if they will be seniors in the semester of enrollment and have at least a 3.0 GPA. The request form can be found on the Graduate School website (www.graduate.appstate.edu/forms_graduate/), and it requires both department and Graduate School approval.

Students may count up to 12 semester hours taken under this classification toward a later graduate degree program, provided that the 7 year time limit for graduate courses is not exceeded; that the course credits are not used to meet the requirements of the undergraduate degree; and that the graduate program approves their inclusion on the graduate program of study.
- 8.** If a student has received a bachelor's degree from Appalachian, a second (or subsequent) bachelor's degree can be earned by completing all program of study requirements stipulated for the second (or subsequent) degree. If a student wishes to earn two (or more) undergraduate degrees at Appalachian concurrently, she or he must complete all program of study requirements stipulated for the respective degrees.

A second (or subsequent) bachelor's degree must differ in type from any degree previously awarded by the University. The University will not, for example, award a second Bachelor of Arts (B.A.) degree; it will, however, award both a Bachelor of Arts *and* a Bachelor of Science (B.S.) degree, either simultaneously or in sequence.
- 9.** An undergraduate student may include a maximum of three (3) semester hours credit under the Instructional Assistance Program toward meeting graduation requirements.

Absences from Class and Class Attendance

General attendance policy

- It is the policy of Appalachian State University that class attendance is an important part of a student's educational experience. Students are expected to attend every meeting of their classes and are responsible for class attendance. Regardless of what reasons there may be for absence, students are accountable for all academic activities, and faculty may require special work or tests to make up for the missed class or classes. In addition, faculty members are encouraged to make reasonable accommodations for students requesting to miss class due to the observance of religious holidays.

Faculty, at their discretion, may include class attendance as a criterion in determining a student's final grade in the course. On the first day of class, faculty must inform students of their class attendance policy and the effect of that policy on their final grade; both policies must be clearly stated in the class syllabus.

A student who does not attend a class during one of its first two meetings may, at the discretion of the academic department, lose her or his seat in that class. Further, if a class meets only one time per week—e.g., a laboratory or an evening class—the student must attend the **first meeting of that class or risk losing her or his seat.**
- A syllabus is to be prepared for each course and distributed at the first of the semester. The syllabus should include the following: an explanation of course goals and objectives, the name of the text and any other materials required of each student, the instructor's office hours, an explanation of how the grade is to be determined, and an explanation of any additional reading, papers, projects and examinations which the instructor expects to give or assign.
- Syllabi for courses taught in the present and previous semester should be on file in the departmental offices and should be made available to students who request them. These syllabi would indicate the structure of courses as they are being or have been taught.
- If a student does not regularly attend an audited course, the instructor may request an administrative withdrawal grade to be assigned. The instructor should provide documentation to the Registrar's Office with the recommendation.
- The Student Health Services **does not** write medical excuses for students who miss a class for illness or injury. However, faculty may call Health Services at (262-3100) to verify the day and time the student was seen. The nature of the student's illness or problem will not be divulged unless the student has signed the appropriate release of medical information.
- Classes prior to a university break or state holiday end with the student's last meeting time for the day preceding the break or holiday.

Academic Regulations

Attendance policy relating to participation in University-sponsored activities

As an integral part of the academic program at Appalachian State University, the University sponsors and otherwise supports co-curricular programs, athletic programs, and other out-of-class activities such as field trips. Participation in such activities occasionally requires a student to miss one or more class meetings.

A student who expects to miss one or more class meetings because of participation in a University-sponsored activity has several responsibilities: the student (in person) will notify the instructor in advance of any absence; the student is expected to complete all work missed by making up the work in advance or by completing any compensatory assignment that may be required by the instructor; the student is expected to maintain satisfactory progress in the course; and the student (otherwise) is expected to maintain satisfactory attendance in the class if so required. In the event that a student anticipates that participation in a University-sponsored activity will require missing more than 10% of the class meetings, the student is required to discuss this matter with her or his instructor at the beginning of the semester and may be advised to drop the course.

If the above responsibilities are met, it is expected that the instructor will excuse the absence and permit the student to make up missed work in whatever manner the instructor deems appropriate.

Emergency absences

When a student is **out of town** and unable to return to campus due to hospitalization, death in the family, or other extenuating circumstances, the student or the student's parents may contact the Office of Student Development to request that professors be notified as to the reason for the absence. This notification is conveyed to the appropriate departmental office as a matter of information only and does not serve as an official excuse for class absence. Only individual faculty members make this determination, and documentation may be requested by the faculty members. The Office of Student Development does not provide this service when notification is received **after** the absence has occurred. Also, if a student is **in town**, that student is responsible for notifying the individual faculty members that she/he will be missing class.

Inclement Weather Policy

Appalachian State University reserves the right to cancel or delay classes during severe weather conditions. In determining whether to do so, the Chancellor consults with the Provost, Vice Chancellors, and other appropriate personnel. Only the Governor of North Carolina has the authority to close the institution due to adverse weather conditions.

The Office of Public Affairs, or its designee, has the responsibility for publicizing the Chancellor's decision to cancel or delay classes. Every effort will be made to reach such a decision by 6:30 a.m. of the affected day. The information will be disseminated via the ASU home page, AppalNET, campus e-mails, and local radio and regional TV stations able to report the university's status in sufficient detail (e.g., the expectations for staff members or the time until which classes are being delayed). Also, a recorded telephone message announcing any change in normal operations is available at (828) 262-SNOW. Faculty members are reminded that media do not announce individual class cancellations.

Staff employees (SPA) should follow the State's adverse weather policy as stated in the Appalachian State University Policy Manual at: www.policy.appstate.edu/603.28_Adverse_Weather_and_Emergency_Closing. Information concerning any cancellations or delays of ASU classes offered at off-campus sites will be accessible at www.ext-dl.appstate.edu.

"Classes are cancelled" means that no classes will be held on the day or night indicated, and such notices will state the expectations for staff employees. Announcements of class delays will specify the point during the day at which classes will resume meeting at their regularly scheduled times. "The University is closed" means that all classes and other activities are cancelled and that only essential personnel who can reach campus safely are expected to report.

Though it is impossible to describe precisely the conditions that may warrant interrupting normal operations, the people involved in making such determinations will consider both the University's educational responsibilities and the physical welfare of all members of its community. The assessment of the situation will also take into account, as one factor, the status of the AppalCart bus system.

Because weather and road conditions often vary significantly within this area, the decision whether to travel must rest with the individual. When there has been no general cancellation of classes, individual faculty members who are unable to meet their classes but have access to e-mail should send students timely notice that they will not meet. Faculty members must also notify their department chair by e-mail or telephone. The University encourages faculty members to make reasonable accommodation, including the opportunity to make up any missed assignments or examinations, for students who live at a distance from campus and have been absent from class because of dangerous weather or road conditions.

Change of Course

Students may add courses, drop courses, or change the section of a course through the published "Drop-Add" period without academic or financial penalty.

Academic Regulations

After the “Drop-Add” period, a limited number of courses can be dropped by the end of the ninth week of a fall or spring semester; or, if dropped during a summer term, by the date specified within the published schedule of classes. **NOTE, HOWEVER, THAT AN UNDERGRADUATE STUDENT WILL BE ALLOWED TO DROP A CUMULATIVE TOTAL OF NO MORE THAN FOUR (4) COURSES AFTER THE PUBLISHED “DROP-ADD” PERIODS DURING HER OR HIS UNDERGRADUATE CAREER AT APPALACHIAN.** There is no refund or adjustment of charges if a course is dropped after the published “Drop-Add” period. Drops made after the “Drop-Add” period are not graded (i.e., not computed in the student’s grade-point average), but are posted on the student’s academic transcript.

A course can also be dropped after the “Drop-Add” period for exceptional circumstances. The “exceptional circumstances” must be compelling, documented, and approved by the appropriate campus office. There is no refund or adjustment of charges if a course is dropped for exceptional circumstances; however, drops of this type are not posted on the student’s academic transcript.

During the “Drop-Add” period, a course may be changed from credit to audit with no academic penalty. To accomplish this, the student must obtain the necessary form from the Registrar’s Office. Permission of the instructor is required for a student to change a course from credit to audit.

Failure to complete a course that has not been officially dropped will automatically result in a grade of “F”, which will be computed in the student’s grade-point average.

Withdrawal from the University

A student is allowed to officially withdraw (i.e., cease enrollment in all courses) **without academic penalty** during the first nine weeks of a fall or spring semester. In order to officially withdraw, the student must formally contact the Registrar’s Office.

A grade of “W” (Withdrawal) will be assigned to each course if the student withdraws during the first nine weeks of a fall or spring semester (the last day to withdraw **without academic penalty** is indicated in the *Schedule of Classes* published on line for each academic term at www.registrar.appstate.edu/calendar/index.html).

A student who officially withdraws **after** the first nine weeks of a fall or spring semester will receive a grade of “WF” (Withdrawal/Failing) or “WU” (Withdrawal/Unsatisfactory) for each course in which she or he is enrolled in at the time of withdrawal. The following are two exceptions to this policy:

1. A student can petition for withdrawal without academic penalty for compelling medical or psychological reasons. Students seeking a medical withdrawal must contact Student Health Services; those seeking a withdrawal for psychological reasons must contact the Counseling and Psychological Services Center. A petition for withdrawal for either medical or psychological reasons must be submitted to the appropriate office by no later than the end of the academic term for which the withdrawal is requested. Supporting documentation will be required. If a medical or psychological withdrawal is approved, the student will receive a grade of “W” (Withdrawal) in each course for which she or he is enrolled.
2. A student can petition for withdrawal without academic penalty for extenuating reasons (i.e., other than medical or psychological). The student must formally notify the Registrar’s Office. The reasons for the withdrawal should be clearly stated, and supporting documentation may be required. Consideration will be given to the reasons for the withdrawal and grades may be assigned on a course-by-course basis, as deemed appropriate.

If a student does not regularly attend an audited course, the instructor may request an administrative withdrawal grade to be assigned. The instructor should provide documentation to the Registrar’s Office with the recommendation.

A student who ceases to attend all classes prior to the end of an academic term, and does not officially withdraw by notifying the Registrar’s Office, will automatically receive a “Failing” grade on each enrolled course.

Distance Learning students enrolled in an extension program should initiate withdrawals in the Office of Extension and Distance Education.

A student who officially withdraws from the University will receive a refund based on the date of notification. The refund percentage is published in the *Schedule of Classes* online for each academic term at www.registrar.appstate.edu/schedules/index.html (Click on the “refund policy” link). The term refund should be understood to mean either: a) the repayment of money received by the University for tuition and fees, or b) a reduction of charges if tuition and fees have not yet been paid.

Course Examinations

All scheduled examination periods will be met at the assigned time. A final examination period is provided at the end of each semester. After the schedule for examinations has been made (i.e., after the schedule has been officially announced in the *Schedule of Classes* for a given semester), an instructor may **not** change the date or time of an examination without permission of the departmental chair and dean. A class which meets at an hour not provided for in the Final Examination Schedule must arrange for an examination during **the examination period** at an hour convenient to members of the class and the instructor, and with the approval of the

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departmental chair. Instructors determine how they will use the assigned period, but all scheduled examination periods will be met at the assigned time. A student may take an examination outside of the scheduled time only by permission of the instructor of the course. Permission is granted only in case of emergency.

A student who is absent from a final examination because of an emergency takes the make-up examination at the convenience of the instructor.

Major Tests and Assignments Prior to Exams

It is strongly recommended that only tests and major assignments included on the syllabus be required during the five class days prior to the final exam period. This recommendation, however, does not include "make-up" tests.

Additional Assignments During Last Week of Classes

Instructors are requested to not make additional graded assignments, including tests, projects, or papers, not included on the syllabus within a seven calendar day period before Reading Day. Laboratory assignments do not fall into this category.

Students are expected to curtail their social activities and club sponsored activities during this seven calendar day period. Club sponsored activities are not allowed during this seven calendar day period.

Grade Submission

Final semester grades are reported to the Registrar's Office no later than 1:00 P.M. on the day following the Faculty Grading period. At the end of each semester, the student's grades are available via AppalNET. (Note, however, that North Carolina law prohibits the release of grades, transcripts or diplomas to students with unpaid accounts.)

Faculty members who cannot meet the final grade submission deadline should contact the Registrar's Office for an extension of time for reporting grades.

Classification

At the end of each semester students are classified on the basis of semester hours.

Students admitted as degree-seeking and who have earned less than 30 semester hours are classified as **freshmen**.

Students who have earned at least 30 semester hours are classified as **sophomores**.

Students who have earned at least 60 semester hours are classified as **juniors**.

Students who have earned 90 semester hours are classified as **seniors**.

Academic Standing (Probation and Suspension Policy)

To continue at Appalachian in good academic standing, undergraduate students must earn, as a minimum, the following cumulative grade-point averages (GPAs) during the periods indicated:

	Minimum Cumulative GPA
At the completion of 1 to 15 attempted hours:	1.75
At the completion of 16 to 30 attempted hours:	1.90
At the completion of 31 attempted hours, and thereafter:	2.00

The term "attempted hours" is defined as all coursework taken while enrolled at Appalachian State University at the undergraduate level--i.e., all courses passed, all courses failed, and all repeats of courses. "Attempted hours" also includes all coursework categorized as "transfer" - i.e., coursework transferred from other collegiate institutions, "AP" and "CLEP" credit from the College Entrance Examination Board, "International Baccalaureate" credit, institutional placement credit, credit awarded for military experience, and institutional "Credit for Life Experience."

Failure to earn the minimum grade-point averages indicated above will automatically place the student on **academic probation** during the fall or spring semester that follows. (Note: The cumulative grade-point average earned at Appalachian is computed **ONLY** on the basis of coursework taken at Appalachian; i.e., grades earned on coursework taken at other collegiate institutions or by correspondence are not computed in or allowed to affect the grade-point average at Appalachian, and therefore not used to determine academic standing.)

While on **academic probation**, however, a student will, within the limits prescribed below, be allowed to continue:

1. An undergraduate, whether admitted as a freshman, a transfer, or a special (non-degree seeking) student, will be allowed to enroll for a maximum of two (2) fall or spring semesters while on academic probation.
2. The Dean of the student's college or school, or the Director of University College Advising, may choose to attach specific requirements while the student is enrolled on academic probation. These requirements may include, but are not limited to, special advising sessions, a limitation on the number of credit hours taken, a requirement that certain courses be repeated, enrollment in developmental courses, etc.

Academic Regulations

The exception to the minimum GPA policy applies to some **students earning a 0.0 GPA**. Any undergraduate degree-seeking full-time student enrolled in her/his first semester (fall or spring) at Appalachian State University will be **academically suspended** if she/he receives a GPA of 0.0 (including "I" incomplete grades) for that semester and must return under the forgiveness policy outlined below. Full-time students are defined for these purposes as students who are registered for 12 or more hours at the end of drop/add.

A student may appeal this type of academic suspension in writing to the University Registrar prior to the subsequent term. A date for the appeal deadline will be set prior to each term. The University Registrar will convene an Appeals Board. The Board's decision will be based on (1) the student's letter of appeal which must include the reason for poor academic performance, (2) documentation of extenuating circumstances, and (3) a plan for improving academic performance. Student conduct records will be reviewed by the Board in making their decision. The Board's decision is final.

If the student uses the two semesters of academic probation mentioned above, but fails to earn a cumulative grade-point average sufficient to place her or him in good academic standing, the student will then be **academically suspended**. At that point, the student's only recourse is to enroll during the University's summer terms until such time that the cumulative grade-point average places her or him in good academic standing. (Since grades earned and hours attempted during the summer are calculated in the student's academic status, it should be remembered that the grades earned and hours attempted during the summer may not only return the student to good academic standing, they may also place or continue the student in academic difficulty. A summer term does not, however, count as one of the two semesters allowed while on academic probation. Undergraduate students in academic difficulty - whether on probation or suspension - may always attend Appalachian during the summer.)

The University has academic "Forgiveness Policies" (described under the Office of Admissions section of this catalog) which allow an undergraduate student to re-apply for admission even though she or he has been academically suspended. Understand, however, that these policies have both minimum waiting periods and academic stipulations which must be met before the student is allowed to re-enroll in an academic term other than the summer.)

Field-Based Option

In fulfilling its obligation as a regional university, Appalachian State University provides an opportunity for persons seeking a degree to pursue the degree in field-based programs established by special arrangement. Designed primarily for other than full-time students, the field-based degree program provides the opportunity for such persons to extend or update their academic credentials. For details regarding these degree programs, contact the Office of Extension and Distance Education at (828) 262-3113.

Independent Study

Independent study is the term applied to the study of a subject not listed in the regular curricular offerings. Under the independent study program, a student designs a project and then individually pursues the study under the auspices of an instructional staff member who serves as a consultant for the student during the course of the study. The student must be either degree seeking, working toward teacher licensure or have special permission from the dean. In all cases, permission from the departmental chair (in which the course is offered) will need to be secured. The vehicles for this are course numbers 2500, 3500, 4500, 5500, 6500 and 7500 depending on the level of the student. For information on independent study, students should consult the chair of the department in which the independent study is to be done.

Individual Study

Individual study is the pursuit of a regularly listed course by a student without attending classes on a regular basis. The student must be either degree seeking, working toward teacher licensure or have special permission from the dean. In all cases, permission from the departmental chair (in which the course is offered) will need to be secured. If the departmental chair approves, then she or he will suggest one or more faculty members in the department who might supervise the student in the course. If the faculty member agrees to supervise the student, the student and faculty member will work out the method of study. The grade for the course will be submitted to the Registrar in the regular way at the end of the semester in which the project is completed.

Institutional Credit

Courses numbered less than 1000 (excluding applied music courses, major-principal, MUS 0001-0025) are taken for "institutional credit" only. These courses DO NOT count for graduation, but are computed in the student's GPA (the hours count toward full-time student eligibility, but do not count as hours earned for graduation). Institutional credit courses will not be used in determining eligibility for honors.

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Instructional Assistance Program

The instructional assistance program is designed for students interested in participating, for academic credit, in supervised experiences in the instructional process on the University level through direct participation in classroom situations. Students with junior or senior standing are eligible to participate in this program. An undergraduate student may include a maximum of 3 semester hours credit under the Instructional Assistance Program toward meeting graduation requirements. For further information, the student should contact the chair of the department in which she/he wishes to engage in instructional assistance.

Internship

By offering realistic on-the-job experiences and personal contacts with employers, internships provide students with opportunities to learn outside of the regular classroom and to formulate career plans based on their experiences.

The following administrative standards govern internships for credit at Appalachian State University:

Internship courses are graded on an S/U basis. In the event where an internship is embedded within a course, the experience will be graded as indicated in the course syllabus.

Students must contact the appropriate program, department, college advisor, or designated representative for instructions on approval and registration procedures. The program, academic department, or college dean's office will make the final determination whether

- a. the student's proposed internship experience is appropriate for the program requirements;
- b. the person serving as the student's supervisor at the internship site is fully qualified to supervise the intern.

Appalachian State University requires professional liability insurance coverage for all students enrolled in internship or practicum courses, including student teaching. When a student registers for an internship, a fee is applied to the student's account to purchase professional liability insurance coverage.

A student seeking an international internship experience must ensure that the Office of International Education and Development has certified that the student has completed all required pre-departure paperwork and procedures.

An internship contract* will be signed outlining the responsibilities of the University, of the student, and of the participating agency or internship host.

*The ASU Internship Contract form is available under "Electronic Forms" on the Office of the Registrar's website at www.registrar.appstate.edu/eforms/index.html

Credit by Examination

Not all courses are amenable to credit by examination, but many are. Students who wish to challenge a regularly listed course should consult with the appropriate departmental chair. If arrangements can be made with the department chair, a fee of \$50.00 is charged for each examination and a receipt from the Student Accounts Office must be shown to the departmental chair before final approval can be given. If the examination is passed, credit without grade will be noted on the student's transcript. The departmental chair will notify the Registrar's Office, in writing, to enter the credit on the permanent record and notify the cashier, in writing, to reimburse the faculty member who administered the examination. If the examination is not passed, no notation is made on the transcript. In the case of freshmen who take placement examinations during the freshman orientation period, the fee is waived.

Anyone seeking credit by examination must be either degree seeking or taking courses for teacher licensure. Credit by examination cannot be used to repeat a course, nor can it be used to meet the University's residency requirements for graduation.

Advanced Placement Program (AP), College Level Examination Program (CLEP), International Baccalaureate (IB)

Appalachian State University grants "credit by examination" in conjunction with the AP Program, the CLEP Program and the IB Program. Students who have demonstrated their achievement on specific tests in either AP or CLEP should have their scores sent directly from The College Board to Appalachian State University (College Code for both programs is 5010) for consideration with regard to placement into advanced courses and for college credit. For International Baccalaureate, go to www.ibo.org and use College Code 00832. All students are encouraged to take these tests and to submit their scores for evaluation.

Students may also qualify for advanced placement and course credit by taking departmental tests in their areas of extensive specialization. Based upon these test results, the amount and nature of the credit granted is determined by the committee on academic policies and procedures and the pertinent department of instruction.

Test scores submitted from these testing programs will remain valid for only ten years.

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Credit for Life Experience

Persons interested should see the Coordinator of Credit for Life Experience in the University College Academic Advising Office.

In exceptional cases, credit can be awarded for prior non-college-based learning if the credit sought is related to the student's degree program (i.e. general education, major or licensure requirements). Assessment of prior learning can commence only after a student has been admitted to the University and has declared a major.

The student will first meet with the designated Academic Advising representative who will help in defining the areas or disciplines in which appropriate creditable learning may have occurred. Actual assessment is conducted by a faculty member in the appropriate academic area. A \$100.00 fee for each area of assessment will be charged. Payment is made to the Student Accounts Office.

Note: Anyone seeking credit for life experience must be either a candidate for an undergraduate degree at Appalachian or taking courses for teacher licensure. Credit for life experience cannot be used to repeat a course, nor can it be used to meet the University's residency requirements for graduation.

Veterans' Academic Credit

Appalachian grants eight semester hours of academic credit to most veterans including six semester hours in military science (ROTC) and two hours in physical education. The University may grant specific course credit for completion of certain types of military schools and for some USAFI and CLEP work. Information on veterans' academic credit is available at the Registrar's Office.

Honors

To encourage scholarship, the University officially recognizes students who distinguish themselves in academic pursuits. Honors day is observed for all students qualifying for scholastic honors, and each honor student is awarded a certificate.

The Gamma Beta Phi Society is a national honor and service organization for students who have earned at least 14 semester hours with a cumulative 3.25 grade-point average.

Alpha Chi, a national scholastic fraternity, is open to not more than the top ten percent of the junior and senior classes who have a grade-point average of not less than 3.50. Phi Kappa Phi, a national scholastic fraternity, honors outstanding scholarship among graduating seniors in each of the colleges who have attained at least a 3.70 grade point average. Occasionally, Phi Kappa Phi taps several outstanding junior scholars for membership.

Only those courses earning credit toward graduation will be used in determining eligibility for honors.

Chancellor's List

The Chancellor's list was created to provide higher recognition to those full-time students who receive a grade-point average of 3.85 or higher in any semester.

An undergraduate student who carries 12 semester hours or more of coursework on which grade points are computed and who attains a grade-point average of 3.85 or better is placed on the chancellor's list of honor students for that semester.

Only those courses earning credit toward graduation will be used in determining eligibility for honors.

Dean's List

An undergraduate student who carries 12–14 semester hours of coursework on which grade points are computed and who attains a grade-point average of 3.45 or better is placed on the dean's list of honor students for that semester.

An undergraduate student who carries 15 semester hours or more of coursework on which grade points are computed and who attains a grade-point average of 3.25 or better is placed on the dean's list of honor students for that semester.

Only those courses earning credit toward graduation will be used in determining eligibility for honors.

Honor Teaching

A student who shows exceptional initiative, scholarship, and excellence in student teaching may be designated and recognized as an honor teacher. The honor will be entered on the student's official record.

Graduation

Degrees are conferred and diplomas are mailed at the close of each academic term (fall, spring, summer). Formal graduation ceremonies, however, are held only at the close of fall and spring terms.

Candidates for the baccalaureate degree and/or North Carolina teacher licensure must file an application with the Registrar's Office at the beginning of the term in which graduation requirements will be completed. At the beginning of each term, the Registrar's

Academic Regulations

Office will notify all seniors ostensibly eligible to graduate (i.e., those currently enrolled for a sufficient number of hours to meet the University requirement) of the required procedure and deadline date. Exceptions to the deadline date will be made ONLY by the Registrar's Office.

Graduation with Degree Honors

To be eligible for graduation with honors, an undergraduate student must complete, in residence at Appalachian, a minimum of either four semesters in full-time attendance (defined as twelve or more credit hours per semester), or a total of 58 semester hours. (Note: Credit for which a grade is not awarded will not be used in the determination of honors—e.g., APP, CLEP, credit by examination, credit for military service, credit for prior learning, etc.) A minimum grade-point average of 3.45 is required for graduating **cum laude**; a minimum grade-point average of 3.65 is required for graduating **magna cum laude**; and a minimum grade-point average of 3.85 is required for graduating **summa cum laude**.

Graduation with Honors for Undergraduate Students Seeking Second Degree

In determining qualification for graduation with honors for Appalachian State University students seeking two degrees or a second degree, all work taken at Appalachian must be considered in the calculation of their grade-point average (GPA).

Students who have completed one degree at another institution and are seeking a second degree at Appalachian must complete, in residence at Appalachian, a minimum of either four semesters in full-time attendance or a total of 58 semester hours to be eligible to graduate with honors from Appalachian State University.

Transcripts

Transcripts must be requested in writing from the Registrar's Office. Transcripts will not be issued to students having unpaid accounts with the University.

The Undergraduate Program

The Undergraduate Program

Appalachian State University's undergraduate program seeks to educate men and women for the twenty-first century. It introduces students to Appalachian's broad vision of University study, its unique academic community and its commitment to knowledge, truth and excellence. At the same time, it seeks to stimulate student growth and development by equipping graduates with the intellectual skills and essential knowledge needed to meet the challenges of the future. The undergraduate program also offers students the opportunity to prepare for productive careers or advanced studies.

GENERAL EDUCATION PROGRAM

www.generaleducation.appstate.edu

Paulette J. Marty, Director

Kristin M. Hyle, Assistant Director

Michael L. Krenn, Faculty Coordinator of First Year Seminar

General Education Goals and Learning Outcomes

General education at Appalachian State University is anchored in the ideals and practices of liberal education and is designed to prepare students to fulfill the responsibilities and meet the challenges presented by a changing world. By engaging in the discovery, interpretation, and creation of knowledge throughout the undergraduate curriculum and becoming involved in educationally focused co-curricular activities, students learn to adapt to new environments, integrate knowledge from diverse sources, and continue learning throughout their lives. Recognizing the growing significance of an interconnected world, Appalachian's general education program also encourages meaningful connections between local regions, especially in the Southern Appalachian Mountains, and global contexts.

EDUCATIONAL GOALS

Appalachian's general education program prepares students for

- I. Thinking critically and creatively
- II. Communicating effectively
- III. Making local to global connections
- IV. Understanding responsibilities of community membership

I. Thinking critically and creatively

RATIONALE: Appalachian's general education program seeks to cultivate lifelong learners who can understand, question, revise, and generate knowledge through thinking that is both critical in its analysis and evaluation of knowledge and creative in its integration and generation of knowledge. Critical and creative thinkers are conscious of how their own positions as well as the history of ideas influence their thought, and they also adjust their thinking as they interpret, evaluate, and reflect based on increasingly sophisticated intellectual values. Critical and creative thought requires the ability to integrate knowledge from a variety of domains and to transfer knowledge from one domain to another, while at the same time recognizing the distinctiveness and limitations of different methodologies and theoretical paradigms. This ability is best fostered by a combination of disciplinary and interdisciplinary approaches to learning and by the employment of a variety of critical and creative strategies, including reading, writing, observing, quantifying, using the scientific method, translating, creating, and performing.

LEARNING OUTCOMES: Students will

- A. Recognize, differentiate, and effectively employ appropriate and increasingly sophisticated strategies to collect and interpret information;
- B. Successfully integrate disparate concepts and information when interpreting, solving problems, evaluating, creating, and making decisions;
- C. Examine and evaluate how their own personal, historical, and cultural perspectives affect the discovery and generation of knowledge;
- D. Construct persuasive arguments in increasingly complex contexts;
- E. Apply theories from a variety of disciplines and advance convincing reasons to connect as well as differentiate theories from different domains of knowledge.

II. Communicating effectively

RATIONALE: The general education program prepares students to employ modes of communication that can help communities reach both authentic consensus and respectful disagreement. In a two-way interaction, communicating effectively leads to discovery and productive changes in the sender, who may be a writer, speaker, dancer, musician, visual artist, or actor, as well as in the receiver, who may be listening, reading, or watching. As both senders and receivers, successful communicators interact effectively with people of

The Undergraduate Program

both similar and different experiences and values. They adapt their communication skills with increasing fluency and sophistication to new and increasingly complex situations. Communicating effectively requires sophisticated reading skills in conjunction with a high level of quantitative, technological, and information literacy.

LEARNING OUTCOMES: Students will

- A. Articulate and comprehend effectively, using verbal or non-verbal communication suitable to topic, purpose, and audience;
- B. Use writing effectively to discover and develop ideas and to articulate positions in contexts of increasing complexity;
- C. Make rhetorical decisions appropriate to topic, purpose, and audience while correctly using the conventions of standard written English;
- D. Determine the scope of information needed in specific research contexts and successfully identify, locate, evaluate, use, and communicate information from various media;
- E. Read actively and analytically at the college level and synthesize and apply information and ideas from their reading across disciplines;
- F. Know, apply, and communicate college-level quantitative concepts and methods;
- G. Select and use hardware, software applications, databases, and other technologies effectively for both inquiry and communication.

III. Making local to global connections

RATIONALE: Appalachian State University is both in and of the southern Appalachian region, and it is also part of a world that is globally connected. Life in the twenty-first century requires an understanding of the connections and multi-layered interactions among diverse local and global human cultures, as well as between humans and the natural and physical environments. In this context, the general education program helps to cultivate an active understanding of global change and the effect of human agency on both natural and cultural environments. Students should understand the importance of biodiversity, ecological integrity, and the need to achieve sustainable benefits for communities. Knowledge of other cultures, diverse cultural frames of reference, and alternative perspectives are essential to thinking critically and creatively and to understanding the responsibilities of membership in local, regional, and global communities. The cultivation and maintenance of intercultural relationships require active cultural understanding, which is achieved by exploring multiple strategies for interacting with other peoples and cultures.

LEARNING OUTCOMES: Students will

- A. Analyze past and present relationships between humans and the natural and physical environment;
- B. Evaluate community, natural, and global change through the lens of sustainability;
- C. Demonstrate the ability to think critically and creatively about the relationship between local regions and global issues, processes, trends, and systems;
- D. Demonstrate knowledge of contemporary issues related to cultural diversity in the United States and other areas of the world;
- E. Employ appropriate and increasingly sophisticated means for communicating with people of other cultures.

IV. Understanding responsibilities of community membership

RATIONALE: General education prepares academically skilled and engaged citizens capable of contributing to the betterment of society and taking responsibility for the common good. Responsible contribution to a vibrant democracy governed by the rule of law requires a basic understanding of the ways in which governments, economies, and societies function. Moral reasoning skills, necessary in a world characterized by often conflicting beliefs and attitudes, enable students to reflect critically on ethical issues and to make reasoned, intelligent judgments about complex moral problems. Effective moral reasoning includes questioning one's own assumptions and beliefs, understanding the reasoning of others, and accepting disagreement about important matters. An understanding of the broad range of past and present moral positions should be accompanied by shared beliefs regarding honesty, integrity, and obligation to others.

LEARNING OUTCOMES: Students will

- A. Identify potential consequences that personal choices as well as political, economic, and other social forces may have on individual, societal, and environmental health;
- B. Apply moral reasoning skills to an array of ethical issues confronted by individuals, groups, and communities;
- C. Collaborate effectively with others in shared processes of inquiry and problem-solving;
- D. Apply principles of responsible community membership within and beyond the campus community.

The Undergraduate Program

General Education Requirements

www.generaleducation.appstate.edu

The program requires students to complete an integrated curriculum grounded in a liberal education in the arts and sciences. It employs a vertical model consisting of opportunities during each year of enrollment for students to improve their skills in critical thinking, inquiry, analysis, synthesis, written and oral communication, and information and technological literacy. Furthermore, the curriculum provides avenues for synergy between general education and the academic major and active learning within and outside the traditional classroom through linkages with undergraduate research, service learning, international experiences, and leadership development. The general education curriculum requires a total of 44 semester hours (41-44 semester hours for transfer students with 30 or more semester hours of transferable work).

This includes the following required coursework:

- 3 s.h. First Year Seminar (waived for transfer students with 30 or more s.h. of transferable work)
- 3 s.h. First Year Writing
- 3 s.h. Second Year Writing
- 4 s.h. Quantitative Literacy
- 2 s.h. Wellness Literacy
- 29 s.h. Perspectives (including 3 s.h. each in fine arts, historical studies, literary studies)

44 s.h. TOTAL (41-44 s.h. total for transfer students with 30 or more s.h. of transferable work)

Coursework in the major:

- Junior Writing in the Discipline (WID)
- Senior Capstone Experience

To encourage a broad-based general education, most general education courses for students are outside their majors. Students will be allowed to count a maximum of 9 s.h. taught in their major discipline toward general education requirements.

THE MAJOR

Appalachian State University offers the following degree programs, concentrations, minors and certificate programs at the undergraduate level. Appalachian's internal major codes, CIP codes, and concentration codes are shown in parentheses after each degree and concentration. For specific degree requirements, go to www.programsofstudy.appstate.edu.

For graduate degree programs, concentrations, minors and certificate programs, refer to the *Graduate Bulletin and Course Catalog* at www.registrar.appstate.edu/catalogs/.

College of Arts and Sciences

Undergraduate minor in Classical Civilizations (128/30.2201)

Undergraduate minor in Judaic, Holocaust and Peace Studies (126/30.2101)

Undergraduate minor in Medieval Studies (131/30.1301)

DEPARTMENT OF ANTHROPOLOGY

Bachelor of Arts in Anthropology (202*/45.0201) with concentrations in Applied Anthropology (202B), Archeology (202D), and General Anthropology (202C)

Bachelor of Science in Anthropology (201A/45.0201)

Bachelor of Science in Anthropology (201*/45.0201) with concentrations in Biological Anthropology (201C) and Sustainable Development (201B)

Undergraduate minor in Anthropology (201/45.0201)

DEPARTMENT OF BIOLOGY

Bachelor of Arts in Biology (208A/26.0101)

Bachelor of Science in Biology/Ecology, Evolution and Environmental Biology (205A/26.1301)

Bachelor of Science in Biology, Cell/Molecular Biology (124A/26.0101)

Bachelor of Science in Biology, Secondary Education (209A/13.1322)[T]

Undergraduate minor in Biology (208/26.0101)

The Undergraduate Program

DEPARTMENT OF CHEMISTRY

Bachelor of Arts in Chemistry (216A/40.0501)

Bachelor of Science in Chemistry (214*/40.0501) with concentrations in Certified Chemist (214B), Environmental (214G), Fermentation Sciences (214I), Forensic Science (214H), Individually Designed (214F), Marketing and Business (214D), and Preprofessional and Paramedical (214E)

Bachelor of Science in Chemistry, Secondary Education (215A/13.1323)[T]

Undergraduate minor in Chemistry (214/40.0501)

Undergraduate certificate program: Forensic Science (141A/43.0106)

DEPARTMENT OF COMPUTER SCIENCE

Bachelor of Science in Computer Science (219A/11.0701)

Undergraduate minor in Computer Science (219/11.0701)

B.A. IN ECONOMICS

Bachelor of Arts in Economics (107*/45.0601) with concentrations in Environmental Economics and Policy (107B), General Economics (107C), International Economics (107D), and Regional Economic Development (107E)

DEPARTMENT OF ENGLISH

Bachelor of Arts in English (233A/23.0101)

Bachelor of Arts in English (233*/23.0101) with concentrations in Creative Writing (233B), Film Studies (233D), and Professional Writing (233C)

Bachelor of Science in English, Secondary Education (234A/13.1305)[T]

Undergraduate minor in English (233/23.0101)

ENVIRONMENTAL SCIENCE PROGRAM

Bachelor of Science in Environmental Science (121A/03.0104)

FERMENTATION SCIENCES PROGRAM

Bachelor of Science in Fermentation Sciences (118A/01.1099)

DEPARTMENT OF GEOGRAPHY AND PLANNING

Bachelor of Science in Community and Regional Planning (218A/04.0301)

Bachelor of Arts in Geography (242A/45.0701)

Bachelor of Science in Geography (241*/45.0701) with concentrations in General Geography (241C) and Geographic Information Systems (241D)

Undergraduate minor in Community and Regional Planning (218/04.0301)

Undergraduate minor in Geography (242/45.0701)

Undergraduate certificate program: Geographic Information Systems (GIS) (140A/45.0701)

DEPARTMENT OF GEOLOGY

Bachelor of Arts in Geology (244A/40.0601)

Bachelor of Science in Geology (244A/40.0601)

Bachelor of Science in Geology (259*/40.0601) with concentrations in Environmental Geology (259C), Paleontology (259D), and Quantitative Geoscience (259E)

Bachelor of Science in Geology, Secondary Education (243A/13.1399)[T]

Undergraduate minor in Geology (244/40.0601)

The Undergraduate Program

DEPARTMENT OF GOVERNMENT AND JUSTICE STUDIES

Bachelor of Science in Criminal Justice (220A/43.0104)

Bachelor of Science in Criminal Justice (220*/43.0104) with a concentration in International Studies (220B)

Bachelor of Arts in Political Science (271A/45.1001)

Bachelor of Science in Political Science (272*/45.1001) with concentrations in American Politics (272C), International and Comparative Politics (272D), Pre-Professional Legal Studies (272J), and Public Administration (272K)

Undergraduate minor in Criminal Justice (220/43.0104)

Undergraduate minor in Political Science (271/45.1001)

DEPARTMENT OF HISTORY

Bachelor of Arts in History (254A/54.0101)

Bachelor of Science in History (246*/54.0101) with concentrations in Applied and Public History (246B), and Multidisciplinary (246C)

Bachelor of Science in History, Social Studies Education (116A/13.1328)[T]

Undergraduate minor in History (246/54.0101)

DEPARTMENT OF LANGUAGES, LITERATURES, AND CULTURES

Bachelor of Arts in French and Francophone Studies (122A/16.0901)

Bachelor of Science in French and Francophone Studies, Education (123A/13.1325)[T]

Bachelor of Arts in Spanish (286A/16.0905)

Bachelor of Science in Spanish, Education (298A/13.1330)[T]

Undergraduate minor in Chinese (227/16.9999)

Undergraduate minor in French and Francophone Studies (122/16.0901)

Undergraduate minor in German (245/16.0501)

Undergraduate minor in Japanese (117/16.0302)

Undergraduate minor in Russian (129/16.0402)

Undergraduate minor in Spanish (286/16.0905)

Undergraduate minor in TESL/Applied Linguistics (TESL: Teaching English as a Second Language) (288/16.0102)

DEPARTMENT OF MATHEMATICAL SCIENCES

Bachelor of Science in Actuarial Sciences (106A/52.1304)

Bachelor of Arts in Mathematics (261A/27.0101)

Bachelor of Science in Mathematics (260*/27.0101) with concentrations in Business (260D), Computation (260E), General Mathematics (260B), Life Sciences (260F), Physical Sciences (260G), and Statistics (260H)

Bachelor of Science in Mathematics, Secondary Education (262A/13.1311)[T]

Bachelor of Science in Statistics (289A/27.0501)

Undergraduate minor in Mathematics (260/27.0101)

Undergraduate minor in Statistics (289/27.0501)

The Undergraduate Program

DEPARTMENT OF PHILOSOPHY AND RELIGION

Bachelor of Arts in Philosophy (101A/38.0101)

Bachelor of Arts in Religious Studies (102A/38.0201)

Undergraduate minor in Philosophy (266/38.0101)

Undergraduate minor in Religious Studies (103/38.0201)

DEPARTMENT OF PHYSICS AND ASTRONOMY

Bachelor of Arts in Physics (269A/40.0801)

Bachelor of Science in Physics (270*/40.0801) with a concentration in Applied Physics (270B)

Bachelor of Science in Physics, Secondary Education (266A/13.1329)[T]

Undergraduate minor in Astronomy (207/40.0801)

Undergraduate minor in Physics (270/40.0801)

DEPARTMENT OF PSYCHOLOGY

Bachelor of Arts in Psychology (251A/42.0101)

Bachelor of Science in Psychology (252*/42.0101) with concentrations in Business (252D), Health Studies (252E), Human Services (252F), Natural Science (252C), and Social Science (252G)

Undergraduate minor in Psychology (275/42.0101)

DEPARTMENT OF SOCIOLOGY

Bachelor of Arts in Sociology (290A/45.1101)

Bachelor of Science in Sociology (284*/45.1101) with concentrations in Applied Research Methods (284D), Criminology, Deviance and Law (284L), Families and Intimate Relationships (284M), Gerontology (284G), Individually Designed (284I), and Social Inequalities (284K)

Undergraduate minor in Gerontology (253/30.1101)

Undergraduate minor in Sociology (290/45.1101)

Walker College of Business

Bachelor of Science in Business Administration in International Business (337A/52.1101)

Undergraduate minor in General Business (324/52.0101)

Undergraduate minor in International Business (337/52.1101)

DEPARTMENT OF ACCOUNTING

Bachelor of Science in Business Administration in Accounting (301A/52.0301)

Undergraduate minor in Accounting (301/52.0301)

DEPARTMENT OF COMPUTER INFORMATION SYSTEMS

Bachelor of Science in Business Administration in Computer Information Systems (310A/52.1201)

Undergraduate minor in Computer Information Systems (310/52.1201)

Undergraduate minor in Supply Chain Management (360/52.0205)

DEPARTMENT OF ECONOMICS

Bachelor of Arts in Economics (107*/45.0601) with concentrations in Environmental Economics and Policy (107B), General Economics (107C), International Economics (107D), and Regional Economic Development (107E)

Bachelor of Science in Business Administration in Economics (316A/45.0601)

Undergraduate minor in Economics (316/45.0601)

The Undergraduate Program

DEPARTMENT OF FINANCE, BANKING AND INSURANCE

Bachelor of Science in Business Administration in Finance and Banking (326A/52.0801)

Bachelor of Science in Business Administration in Risk Management and Insurance (380A/52.1701)

Undergraduate certificate program: Financial Planning (320A/52.0801)

DEPARTMENT OF MANAGEMENT

Bachelor of Science in Business Administration in Hospitality and Tourism Management (371A/52.0901)

Bachelor of Science in Business Administration in Management (355*/52.0201) with concentrations in Entrepreneurship (355B), General Management (355C), and Human Resource Management (355D)

Undergraduate minor in Entrepreneurship (355/52.0201)

DEPARTMENT OF MARKETING

Bachelor of Science in Business Administration in Marketing (352A/52.1401)

Undergraduate minor in Marketing (352/52.1401)

Reich College of Education

DEPARTMENT OF CURRICULUM AND INSTRUCTION

Bachelor of Science in Business Education (407*/13.1303)[T] with concentrations in Business Education (407B)[T], and Business and Marketing Education (407C)[T]

Bachelor of Science in Elementary Education (441A/13.1202)[T]

Bachelor of Science in Health Education, Secondary Education (403A/13.1307)[T]

Bachelor of Science in Middle Grades Education (470*/13.1203)[T] with concentrations in Language Arts (470B)[T], Mathematics (470C)[T], Science (470D)[T], and Social Studies (470E)[T]

Undergraduate minor in Business Education (407/13.1303)

Undergraduate minor in Health Education, General (403/13.1307)

Undergraduate minor in Media Studies (467/13.0501)

DEPARTMENT OF FAMILY AND CONSUMER SCIENCES

Bachelor of Science in Apparel Design and Merchandising (710A/19.0901)

Bachelor of Science in Child Development (510*/19.0706) with a concentration in Family and Consumer Sciences (510F)

Bachelor of Science in Child Development: Birth Through Kindergarten (524A/13.1209)[T]

Bachelor of Science in Family and Consumer Sciences, Secondary Education (526*/13.1308)[T] with a concentration in Consumer Education (526D)[T]

Undergraduate minor in Apparel Design and Merchandising (710/19.0901)

Undergraduate minor in Child Development (510/19.0706)

Undergraduate minor in Family and Consumer Sciences (526/19.0101)

DEPARTMENT OF HUMAN DEVELOPMENT AND PSYCHOLOGICAL COUNSELING

Undergraduate minor in Leadership Studies (429/13.1102)

DEPARTMENT OF LEADERSHIP AND EDUCATIONAL STUDIES

(Refer to the *Graduate Bulletin and Course Catalog*)

DEPARTMENT OF READING EDUCATION AND SPECIAL EDUCATION

Bachelor of Science in Special Education (478*/13.1011)[T] with concentrations in Adapted Curriculum K-12 (478C)[T] and General Curriculum K-12 (478B)[T]

Undergraduate minor in Special Education, General (487/13.1001)

The Undergraduate Program

College of Fine and Applied Arts

DEPARTMENT OF ART

Bachelor of Arts in Art (504*/50.0701) with concentrations in Art History (504B), Interdisciplinary Art (504D), and Studio Art (504C)

Bachelor of Science in Art Education (K-12) (502A/13.1302)[T]

Bachelor of Science in Art Management (523A/50.1002)

Bachelor of Fine Arts in Graphic Design (511A/50.0409)

Bachelor of Fine Arts in Studio Art (513A/50.0702)

Undergraduate minor in Art (504/50.0701)

Undergraduate minor in Art History (505/50.0703)

DEPARTMENT OF COMMUNICATION

Bachelor of Science in Communication, Advertising (507A/09.0903)

Bachelor of Science in Communication, Electronic Media/Broadcasting (525A/09.0701)

Bachelor of Science in Communication, Journalism (517A/09.0401)

Bachelor of Science in Communication, Public Relations (521A/09.0902)

Bachelor of Science in Communication Studies (585A/09.0101)

Undergraduate minor in Communication (532/09.0101)

DEPARTMENT OF MILITARY SCIENCE AND LEADERSHIP

Undergraduate minor in Military Science and Leadership (555/28.0301)

DEPARTMENT OF TECHNOLOGY AND ENVIRONMENTAL DESIGN

Bachelor of Science in Appropriate Technology (578A/15.0505)

Bachelor of Science in Building Sciences (577*/52.2001) with concentrations in Architectural Technology and Design (577B) and Construction Management (577C)

Bachelor of Science in Graphic Arts and Imaging Technology (572A/50.0409)

Bachelor of Science in Industrial Design (576*/50.0404) with concentrations in Furniture Design (576B) and Product Design (576C)

Bachelor of Science in Interior Design (550A/50.0408)

Bachelor of Science in Technical Photography (579A/50.0406)

Bachelor of Science in Technology Education (545*/13.1309)[T] with concentrations in Technology Education, Secondary Education (545B)[T] and Trade and Industry (545C)[T]

Undergraduate minor in Appropriate Technology (544/15.0612)

Undergraduate minor in Building Science (580/52.2001)

Undergraduate minor in Graphic Arts and Imaging Technology (572/50.0409)

Undergraduate minor in Technical Photography (582/50.0406)

DEPARTMENT OF THEATRE AND DANCE

Bachelor of Arts in Dance Studies (581A/50.0301)

Bachelor of Arts in Theatre Arts (591*/50.0501) with concentrations in General Theatre (591B), Performance (591C), and Theatre Design/Technology (591D)

Bachelor of Science in Teaching Theatre Arts, K-12 (589A/13.1324)[T]

Undergraduate minor in Dance (515/50.0301)

Undergraduate minor in Theatre Arts (586/50.0501)

The Undergraduate Program

College of Health Sciences

DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS

Bachelor of Science in Communication Sciences and Disorders (820A/51.0201)

Undergraduate minor in Communication Sciences and Disorders (820/51.0201)

DEPARTMENT OF HEALTH, LEISURE AND EXERCISE SCIENCE

Bachelor of Science in Athletic Training (565A/51.0913)

Bachelor of Science in Exercise Science (567*/31.0505) with concentrations in Clinical Exercise Physiology (567E), Pre-Professional (567B), and Strength and Conditioning (567D)

Bachelor of Science in Health Promotion (509A/51.2207)

Bachelor of Science in Physical Education Teacher Education, K-12 (564A/13.1314)[T]

Bachelor of Science in Recreation Management (574*/31.0301) with concentrations in Commercial Recreation and Tourism Management (574G), Outdoor Experiential Education (574F), and Recreation and Park Management (574E)

Undergraduate minor in Exercise Science (519/31.0505)

Undergraduate minor in Health Promotion (509/51.2207)

Undergraduate minor in Recreation Management (575/31.0301)

DEPARTMENT OF NURSING

Bachelor of Science in Nursing (809A/51.3801)

Bachelor of Science in Nursing (RN to BSN) (563A/51.3801)

DEPARTMENT OF NUTRITION AND HEALTH CARE MANAGEMENT

Bachelor of Science in Health Care Management (845A/51.0701)

Bachelor of Science in Nutrition and Foods (840*/51.3101) with concentrations in Dietetics (840B), and Foodsystems Management (840C)

Undergraduate minor in Health Care Management (845/51.0701)

Undergraduate minor in Nutrition and Foods (840/51.3101)

DEPARTMENT OF SOCIAL WORK

Bachelor of Social Work (281A/44.0701)

Undergraduate minor in Social Work (281/44.0701)

Honors College

Undergraduate minor in Medical Humanities (605/30.9999)

Hayes School of Music

Bachelor of Music in Music Education (552*/13.1312)[T] with concentrations in Choral Music Education (K-12) (552D)[T], General Music Education (K-12) (552E)[T], and Instrumental Music Education (K-12) (552C)[T]

Bachelor of Music in Performance (554*/50.0903) with concentrations in Composition and Theory (554C), Sacred Music (554B), Instrument/Bassoon (554E), Instrument/Cello (554F), Instrument/Clarinet (554G), Instrument/Flute (554H), Instrument/French Horn (554I), Instrument/Guitar (554K), Instrument/Harp (554L), Instrument/Oboe (554M), Instrument/Organ (554N), Instrument/Percussion (554O), Instrument/Piano (554P), Instrument/Saxophone (554Q), Instrument/String Bass (554R), Instrument/Trombone (554T), Instrument/Trumpet (554U), Instrument/Tuba (554V), Instrument/Viola (554W), Instrument/Violin (554X), Instrument/Voice (554Y), and Instrument/Euphonium (554Z)

Bachelor of Music in Music Therapy (553A/51.2305)

Bachelor of Science in Music Industry Studies (557A/50.1003)

Undergraduate minor in Music (551/50.0901)

The Undergraduate Program

University College

APPALACHIAN STUDIES PROGRAM

Bachelor of Arts in Appalachian Studies (600A/05.0199)

Undergraduate minor in Appalachian Music: Roots and Influences (100/05.0199)

Undergraduate minor in Appalachian Studies (204/05.0199)

GLOBAL STUDIES PROGRAM

Bachelor of Arts in Global Studies (601A/30.2001)

Undergraduate minor in Global Studies (601/30.2001)

Undergraduate certificate program: Global Connections (612A/30.2001)

INTERDISCIPLINARY STUDIES PROGRAM

Bachelor of Arts in Interdisciplinary Studies (250*/24.0101) with concentrations in American Studies (250B), Environmental Policy and Planning (250D), Individually Designed (250E), Internet Studies (250Q), Labor Studies (250S), and Liberal Studies: Modern Period (250L)

Undergraduate minor in Africana Studies (611/05.0201)

Undergraduate minor in Interdisciplinary Studies (112/24.0101)

Undergraduate minor in Internet Studies (250/24.0101)

Undergraduate minor in Labor Studies (249/24.0101)

Undergraduate minor in Non-Profit Management (609/52.0206)

Undergraduate certificate program: Non-Profit Management (609A/52.0206)

GOODNIGHT FAMILY SUSTAINABLE DEVELOPMENT PROGRAM

Bachelor of Arts in Sustainable Development (603A/03.0103)

Bachelor of Science in Sustainable Development (604*/03.0103) with concentrations in Agroecology and Sustainable Agriculture (604B), Community, Regional and Global Development (604C), and Environmental Studies (604D)

Undergraduate minor in Sustainable Development (294/03.0103)

WOMEN'S STUDIES PROGRAM

Bachelor of Arts in Women's Studies (602A/05.0207)

Undergraduate minor in Girls' Studies (607/05.0207)

Undergraduate minor in LGBT Studies (Lesbian, Gay, Bisexual and Transgender Studies) (606/05.0208)

Undergraduate minor in Women's Studies (175/05.0207)

CO-CURRICULAR PROGRAM: SERVICE-LEARNING AND COMMUNITY-BASED RESEARCH

Undergraduate certificate program: Citizen Scholar (608A/33.0104)

Honors College

Honors College

Leslie Sargent Jones, Director

www.honors.appstate.edu

Admission to the Honors College requires the completion of a separate application. Admission is based on evidence of exceptional academic achievement and leadership, appreciation of creativity, commitment to service, and global awareness. The program accepts students prepared to embark on a scholarly program that includes a series of specially designed courses and educational experiences that will prepare them for the best in post-baccalaureate opportunities. The University Honors curriculum meets the needs of high-ability students through Honors general education courses (small, team-taught cross-disciplinary courses, as well as introductory courses in many majors), international and community service experiences, and a required senior thesis/project. The program offers an introductory Freshman Honors Seminar and two additional interdisciplinary courses that may fulfill general education requirements. Classes are generally capped at twenty participants or less, and they are conducted under the guidance of one or more faculty members who represent diverse academic areas. The courses are interdisciplinary in nature and are intended to exhibit ways in which two or more fields of study bear upon the subject matter. Honors faculty members are selected on the basis of demonstrated excellence in teaching and scholarship.

University Honors

The Honors College offers outstanding and highly-motivated students a special opportunity to broaden and enrich their academic experience by providing Honors courses that will lead to graduation with University Honors from the Honors College. Honors courses are offered through the Honors College (HON courses) and as departmental offerings in more than 30 majors. Most departmental honors courses at the lower division level are designed to fulfill general education or departmental curriculum requirements. Honors courses are frequently conducted as seminars in which students meet in small groups to discuss readings, exchange ideas, debate, and share results of individual study and research. The emphasis in Honors is on independent and creative thinking with a great deal of student participation expected. Support facilities, including classrooms, study rooms, and special programs are available to all Honors College students. In order to graduate with University Honors from the Honors College and have the designation on the final transcript, Honors students must complete the University Honors requirements by meeting the following criteria (for a total of at least 24 required semester hours in Honors):

1. completing at least 9 semester hours of University Honors courses in at least two of the three major discipline areas (humanities, social sciences, and natural sciences) and one each from the three levels of HON 1515, HON 2515, and HON 3515
2. completing 9 additional semester hours of Honors courses from any area
3. completing at least 3 semester hours of Honors courses in the major
4. fulfilling the Honors College International Education requirement
5. maintaining both a cumulative and Honors course GPA of 3.45 in the senior year
6. completing an Honors Thesis/Project (3 semester hours minimum), to be examined (defended) and approved by both an advisor in the student's thesis/project area and a second reader from a different department.

Further information and application materials are available online at www.honors.appstate.edu. Within guidelines approved by the Honors College Academic Program Approving Committee, students may enter into an Honors contract with an instructor and a department or program to complete a standard curriculum course and receive Honors credit. Contracts must be approved in advance by the Director of the Honors College. Copies of the guidelines and Honors contract application materials may be obtained online or from the Honors office.

Departmental Honors

Several disciplines offer students the opportunity to graduate with departmental honors. Check for requirements and procedures in the catalog section of the specific departments and programs. Most departmental Honors programs will require at least 9 semester hours in departmental Honors courses, including a 3 semester hour Honors Thesis/Project. Students may take part in more than one departmental Honors program at a time; however, the requirements for both need to be met independently. Students may also pursue both University and their departmental Honors simultaneously. Admission to departmental Honors is usually offered by invitation only. Students interested in enrolling in departmental Honors should contact the departmental Honors director for admissions criteria and program requirements. Each department or program establishes its own criteria for admitting students into departmental Honors, subject to approval of the Honors Council.

Honors College

Minor in Medical Humanities (605/30.9999)

A minor in Medical Humanities consists of 15 semester hours. Of these, 3 semester hours are required and 12 semester hours are elective hours. This minor is open to any student in the University regardless of their major, but students must apply for admission. A minimum cumulative GPA of 3.3 is required at the time of application and must be maintained to graduate with a minor in Medical Humanities. Applications must be submitted to the Minor in Medical Humanities Committee (MMHC) for review and approval. Students accepted into the minor will have access to any of the Honors College courses that are offered for this minor.

The program of study is available at: www.programsofstudy.appstate.edu/medical-humanities-minor-605-2012-2013

Courses of Instruction in Honors (HON)

This catalog reflects fall and spring semester offerings. Honors courses and contracts are typically not offered in the summer terms (except for travel courses). (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.) Students are advised to check the Honors College website at www.honors.appstate.edu for more information on courses and instructors.

HONORS (HON)

HON 1515. Freshman Honors Seminar (3).F;S.

GEN ED: First Year Seminar

An interdisciplinary special topics course taught by one or two professors. This Honors course is equivalent to UCO 1200 (First Year Seminar) and fulfills the general education first year seminar requirement. Students may not receive credit for both UCO 1200 and HON 1515. Instructors and content vary; may be repeated for credit when content does not duplicate. (CROSS-DISCIPLINARY) (WRITING; SPEAKING; MULTI-CULTURAL; NUMERICAL DATA; and/or COMPUTER: approved on a semester-by-semester basis.) (CORE: HUMANITIES/SOCIAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

HON 2500. Independent Study (1-3).F;S.

HON 2515. Sophomore Honors Seminar (3).F;S.

A cross-disciplinary special topics course covering two or more disciplines (science, social science, or humanities). Instructors and content vary; may be repeated for credit when content does not duplicate. This course may replace courses in the general education curriculum subject to semester-by-semester approval of the General Education Council. (CROSS-DISCIPLINARY) (WRITING; SPEAKING; MULTI-CULTURAL; NUMERICAL DATA; and/or COMPUTER: approved on a semester-by-semester basis.) (CORE: HUMANITIES/SOCIAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

HON 3500. Independent Study (1-3).F;S.

HON 3510. Washington Experience (3).On Demand.

A seminar-style, variable topics course, to be taught in Washington, D.C. The course will explore the role of a national capital in the determination of public policy and national culture in a diverse democracy, using Washington, D.C., as text. Enrollment is limited to students who have applied and been accepted to the Washington Internship Program.

HON 3515. Junior/Senior Honors Seminar (3).F;S.

A special topics course covering two or more disciplines (science, social science, or humanities) with an emphasis on students' development of research skills. Instructors and content vary; may be repeated for credit when content does not duplicate. This course may replace courses in the general education curriculum subject to semester-by-semester approval of the General Education Council. (CROSS-DISCIPLINARY) (WRITING; SPEAKING; MULTI-CULTURAL; NUMERICAL DATA; and/or COMPUTER: approved on a semester-by-semester basis.) (CORE: HUMANITIES/SOCIAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

HON 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

HON 3530-3549. Selected Topics (1-4).F;S.On Demand.

HON 4010. Senior Honors Thesis/Project (1-3).F;S.

Independent study and research for an interdisciplinary thesis or project. Directed and graded by a faculty member in the student's thesis/project area with a second faculty member from a different department serving as a second reader. May be taken concurrently for credit in a student's major department, if applicable. Prerequisite: completion of an approved Honors sequence. (By invitation or application only.) May be repeated for credit if the total proposed thesis/project is more than three credit hours.

University College

University College

Michael W. Mayfield, Interim Vice Provost for Undergraduate Education

University College at Appalachian State University was founded in 2007 in order to coordinate programs that meet a broad range of needs for 21st-century students as they prepare to live and work in a complex network of local, regional and global communities. We cross many of the boundaries that separate traditional colleges and departments, and we are committed to the idea that a college education should connect what goes on inside and outside the classroom.

University College curricular programs - from general education and honors programs to undergraduate and graduate interdisciplinary degree programs - are designed to help students achieve the essential learning outcomes of a liberal education, emphasizing reflective, life-long learning and the transferable skills necessary for navigating today's ever-changing world. Through co-curricular programs, students learn from distinguished authors and speakers, blend their classroom learning with community service, and pursue independent research with faculty mentors.

To be admitted to an undergraduate degree program in University College, a student must meet the following requirements to officially declare a major:

1. Completion of at least 30 semester hours
2. A grade-point average of at least 2.0
3. Credit for ENG 1000 or an equivalent course and credit for or current enrollment in UCO 1200 or an equivalent course

All students begin their education in University College: both freshmen and transfer students are introduced to the university and given their initial academic guidance through the office of advising and orientation. Throughout their time at Appalachian, students benefit from other support services to improve their writing, work on other academic skills, and take the tests necessary to advance their careers at Appalachian and beyond. University College provides faculty members with innovative teaching opportunities and supports them in developing practices of engaged and successful learning. For more information, please call the University College office at (828) 262-7660 or visit the web site at www.universitycollege.appstate.edu.

University College Programs and Services

www.universitycollege.appstate.edu

ACADEMIC SUPPORT SERVICES

Orientation Programs
Academic Advising
Learning Assistance Program
Testing Services
University Documentary Film Services
University Writing Center

CO-CURRICULAR PROGRAMS

Forum Lecture Series
Office of Student Research
Summer Reading Program
Service-Learning & Community-Based Research

GENERAL EDUCATION PROGRAM

General Education
Writing Across the Curriculum (WAC)
First Year Seminar

ACADEMIC PROGRAM WITH A RESIDENTIAL COMPONENT

Watauga Global Community

INTERDISCIPLINARY DEGREE PROGRAMS

Appalachian Studies, B.A. and M.A.
Global Studies, B.A.
Interdisciplinary Studies, B.A.
Sustainable Development, B.A. and B.S.
Women's Studies, B.A. and Graduate Certificate

Orientation Programs

Orientation helps new students explore Appalachian's academic and social opportunities and make a smooth transition to life on campus. Orientation services for students are provided in the forms of an online orientation course called Early Registration Advising, an academic on-campus orientation program, and a Welcome Weekend program prior to the start of the fall semester. A Parent & Family Orientation program runs concurrently with the on-campus academic orientation program.

New Student Orientation & Orientation Welcome Weekend

www.orientation.appstate.edu

Nikki Crees, Director

Orientation is coordinated by University College and emphasizes academic information, placement testing, advice on course scheduling, University policies and procedures, and registration for classes. The program is required for all entering degree-seeking undergraduate students and takes place throughout the summer, at the beginning of each semester, and at the beginning of each summer school session. **Orientation should be completed before the first day of classes but MUST be completed no later than the end of the specified drop/add period. New students may not confirm their class schedule without attending Orientation.**

Orientation Welcome Weekend takes place at the beginning of the fall semester for all new students. This program focuses on co-curricular activities, residence life, survival skills, goal setting, and adjusting to changing life styles. Students also have opportunities to meet professors and to get to know other students.

Parent & Family Orientation

www.parents.appstate.edu

Traci Royster, Director of Parent and Family Services

Parent & Family Orientation is coordinated by the Division of Student Development and is held concurrently with the academic new student orientation. This program is designed not only to introduce parents and families to the services and activities available to students, but also to discuss changes parents and families might expect as their daughter, son or family member transitions to college.

Academic Advising

www.advising.appstate.edu

Appalachian views advising students as one of its highest responsibilities and priorities. Academic advising seeks to provide every student with assistance in identifying academic and career interests, developing a realistic and successful academic program, planning an effective career strategy, and addressing personal and social areas of concern. Faculty, administrators, and staff are committed to a comprehensive advising system that addresses students' needs at each stage in their University education.

University College Academic Advising

Lynne Waugh, Director

Don Presnell, Associate Director

University College Academic Advising serves all first-time, degree-seeking, main campus undergraduate students in their first semesters. Professional advisors educate students regarding University requirements and policies. They assist with academic planning, interpreting University policies, and developing academic majors and career strategies. Advising for undeclared freshmen, first semester transfers, students whose GPA is below a 2.0, and undeclared students with 60 or more earned hours is mandatory. The Advising Center is located in 101 D.D. Dougherty Hall, (828) 262-2167.

Advising in the Colleges/School. When students have completed at least 30 semester hours, including credit for ENG 1000 or an equivalent course and credit for or current enrollment in UCO 1200 or an equivalent course, and have obtained at least a 2.0 grade-point average, they may declare a major. In this case, their academic records are forwarded from the University College Academic Advising Office to the appropriate degree-granting college/school (College of Arts and Sciences, Walker College of Business, Reich College of Education, College of Fine and Applied Arts, College of Health Sciences, Hayes School of Music, and University College). In some cases, additional requirements must be met to be formally accepted into a college/school. Personnel are available in the dean's office of each degree-granting college or the School of Music to answer general questions about University graduation requirements, interpret University policy, and review a student's official record.

Advising in the Departments/Programs. Since advising policies vary at the upper division level, students who have declared a major should contact their major department/program for advising information. As the primary source of advising for the major, the departmental/program advisor helps students in developing realistic and successful academic programs, exploring career opportunities, and staying informed about University and departmental policies and activities.

Faculty members maintain weekly office hours for routine conferences with students. Many faculty will be able to answer general questions about University regulations and requirements, but others will refer students to departmental, program, college/school, or University advisors for both general and specialized advising. When students have personal and social problems, faculty members assist if possible and, if the need is apparent, make necessary referrals to one of the special counseling services on campus.

Advising Responsibilities. In order for academic advising to be constructive and beneficial, it is important that both the student and the University advisor recognize respective responsibilities. The advisor is committed and prepared to provide appropriate, accurate, and timely information at every stage of the student's career. The student, on the other hand, must be willing to accept advice, realizing that the ultimate responsibility for understanding University regulations and for meeting graduation requirements resides with the student. Advising is a shared responsibility between the student and the advisor.

Mandatory Major Declaration. Students who are eligible to declare their majors and have junior status, 60 or more earned credit hours and the completion of one semester at Appalachian State University must declare their majors and move from University College Academic Advising to advising within their colleges/school and departments. A registration hold will be placed on the student accounts of those students who do not declare their majors when mandated. While University College academic advisors advise freshman and sophomore students, juniors and seniors are much better served in their specific major departments/programs as they progress toward graduation.

Learning Assistance Program

Jean Roberts, Executive Director

Cama Duke, Associate Director

www.lap.appstate.edu

The Learning Assistance Program fosters academic achievement by all Appalachian students. The program provides services to students that include tutoring, supplemental instruction for historically difficult courses, learning skills courses, consultations, and academic coaching. Specific populations of students are provided a comprehensive system of support which may include mentoring, academic advising, counseling, orientation, instruction, and study skills to enable them to be successful in their academic work.

Following are descriptions of the components of the Learning Assistance Program, located on the second floor of D.D. Dougherty Hall. For additional information, call (828) 262-2291.

Academic Services for Student-Athletes

Kim Sherrill, Director

Jonathan Reeder, Assistant Director

www.ssa.appstate.edu

Appalachian State University values academic excellence as well as athletic achievement. The student-athlete is provided a comprehensive academic support system through academic advising, counseling, tutoring, assistance with registration, orientation, academic progress reports, and NCAA eligibility checks. A required study hall is provided for some student-athletes. For further information, call (828) 262-2291.

Appalachian Commitment to a College Education for Student Success (ACCESS)

Beth Marsh, Director

www.access.appstate.edu

The ACCESS program offers low-income students from North Carolina a four-year university education at Appalachian State University debt-free. Specifically, the ACCESS program supplements federal financial aid grants, state financial aid grants and scholarships, and other forms of financial assistance with sufficient funds to cover the cost of institutional charges (tuition, fees, room, board) and health insurance costs.

To be eligible for the ACCESS program, a student must enter Appalachian as a first-time freshman on the main campus, attend full-time, be a resident of North Carolina, make satisfactory academic progress (as defined by federal regulations), and be from a family with an income at or below the Federal Poverty Level (indexed by family size). In addition to financial assistance, ACCESS students receive a comprehensive program of academic support, through the Learning Assistance Program or the Student Support Services Program, which includes long-term academic advising, technology assessment, mentors, tutoring, early registration assistance, academic progress reports, career development, and financial planning.

Learning Skills Services

Cama Duke, Director

Heather Lippard, Assistant Director

www.lss.appstate.edu

Students can sign up for individual appointments with a learning skills specialist to discuss strategies such as note-taking methods, time management, effective reading and study methods, test-taking skills, test anxiety, organization, and study tips for standardized test preparation. Students may be referred for weekly appointments with a professional academic coach.

Learning Skills Services offers a variety of half-semester, one credit-hour elective courses in time management, study skills, power reading, and research strategies. Each course is designed to give students the opportunity to identify, practice and reflect on strategies for academic achievement. Workshops can be arranged upon request. For more information, call (828) 262-3044.

Student Support Services

www.lss.appstate.edu

Cathia Silver, Director

Christine Davé, Assistant Director

Funded and supported by the U.S. Department of Education and Appalachian State University, Student Support Services is designed to assist students enrolled at Appalachian who have potential for success in college but who may experience some academic difficulties. Students selected for the program must be in need of financial assistance and/or be a first generation college student (neither parent has a bachelor's degree). The program offers academic advising; personal, career, and financial counseling; tutoring; a learning community; a mentor program; learning skills courses; technology assessment and training; cultural activities; and a scholarship program. For more information, please call (828) 262-2291.

University Tutorial Services/Supplemental Instruction

www.tutoring.appstate.edu or www.si.appstate.edu

Jessica A. Fletcher, Director

University Tutorial Services assists students who want to improve their chances of success in their coursework and/or who benefit from discussing course content with peer tutors. The program provides free tutorial assistance in most courses through group and individual tutoring. Students may sign up for tutoring appointments on Monday through Thursday from 9 AM–9 PM and on Friday from 9 AM–3 PM by going in person to Room 208 of D.D. Dougherty Hall, (828) 262-3060.

Supplemental Instruction (SI) is designed to help students master course concepts and increase competency in reading, reasoning and study skills. Successful role models such as graduate or upperclass students serve as SI leaders. SI leaders attend course lectures, take notes, and complete assigned readings in order to lead weekly review sessions for students enrolled in these courses. For more information, please call (828) 262-3060.

Testing Services

www.testing.appstate.edu

Susan B. Morgan, Director of Testing

The Office of Testing Services provides a Computer Based Testing Center for students to take national entrance/certification exams. Students can test at their own convenience at one of the twelve computer stations located in John E. Thomas Hall.

A list of tests/examinations offered include the GRE General Test (Graduate Record Examination), GMAT (Graduate Management Admission Test), PRAXIS I (national teacher exam), TOEFL (Test of English as a Foreign Language), the MAT (Miller Analogies Test), MCAT (Medical College Admission Test), CLEP tests (College Level Examination Program), and other national examinations, charging fees, when applicable, in accordance with the schedule of fees maintained in the Testing Center. A variety of different certifying exams are also administered through a contract with the Pearson VUE testing company.

In addition to computer-based tests, paper and pencil tests are administered on national test dates throughout the year, usually on Saturdays. They include: PRAXIS II, LSAT (Law School Admissions Test), GRE Subject Tests, and NCE (National Counselors Exam).

Testing Services also coordinates placement testing for incoming freshmen and transfers and correspondence testing for ASU students enrolled in off-campus coursework. All requests for accommodated testing must be approved through the Office of Disability Services prior to test administration for these tests. For more information, please contact the Office of Testing Services at (828) 262-6801.

University Documentary Film Services

www.doc.appstate.edu

Beth Davison, Co-Director

Tom Hansell, Co-Director

The University Documentary Film Services program teaches, engages in, and presents documentary work grounded in collaborative local and global partnerships that use photography, film/video, audio, and narrative writing to capture and convey memory, life, research, theory, and culture.

University Documentary Film Services:

- Coordinates existing documentary film efforts and resources on campus.
- Provides information and support for producing documentaries.
- Offers classroom instruction and workshops about basic documentary skills.
- Archives and disseminates campus documentary projects.

The University Documentary Film Services office is located in Room 228 of Chapell Wilson Hall.

For more information, please call (828) 262-7730 or (828) 262-6397.

University Writing Center

Elizabeth Carroll, Director

Rachel Strickland, Assistant Director

www.writingcenter.appstate.edu

The University Writing Center offers free one-to-one conferences with Appalachian students working on any type of writing project: papers for academic courses, thesis chapters, statements for graduate school applications, and creative writing projects. Consultants work with writers at any stage of the writing process, from inventing topics and revising drafts to editing at the sentence level.

The University Writing Center is located in Room 008 of Belk Library and Information Commons.

For more information or to make an appointment, call (828) 262-3144.

Forum Lecture Series

www.universityforum.appstate.edu

The University Forum Lecture Series brings distinguished speakers to campus to promote the exchange of ideas. Always challenging, sometimes controversial, the speakers enliven campus dialogue. They bring awareness to issues of concern in society and help students think critically about those issues.

For more information, please contact Dr. Mike Mayfield at (828) 262-7660.

Office of Student Research

www.osr.appstate.edu

Alan C. Utter, Director

The Office of Student Research (OSR) works to promote and support research and creative activity of undergraduate and graduate students, particularly activities conducted in collaboration with members of the faculty at Appalachian State University. The primary functions of the OSR are: advocacy for student-faculty research; identifying and pursuing sources of external and internal support for that research; seeking, collecting and disseminating information regarding student-faculty research opportunities; cooperating with other campus units to identify or create research opportunities; coordinating the university's annual Celebration of Student Research and Creative Endeavors; contributing to the UNC-General Administration Undergraduate Research Consortium; and participating in national dialogues/meetings devoted to promoting student research.

For more information, please contact the Office of Student Research at (828) 262-7655, Room 385 of John E. Thomas Hall.

Summer Reading Program

www.summerreading.appstate.edu

Emory Maiden, Director

Bill Pillow, Assistant Director

The Summer Reading Program plays an integral part in new students' orientation: Summer Reading provides a common intellectual experience; an invitation to join an academic community of students, faculty, and staff; and an introduction to collegiate life. Students receive the book chosen and supplementary materials when they attend Summer Orientation. They should read the book before returning to campus for the Welcome Weekend in August. At that time, students participate in a book discussion led by a faculty or staff member that mirrors discussion in University classroom settings. In addition, Appalachian integrates the book and its themes into students' classes and other activities throughout the year, notably the fall Convocation, at which the book's author speaks. The Summer Reading selection book is also required reading for the First Year Seminar.

For more information, please contact Dr. Emory Maiden at (828) 262-2320 or maidennev@appstate.edu.

Service-Learning & Community-Based Research

Shari Galiardi, Director of Service-Learning

Todd Mortensen, Associate Director of ACT Community Partnerships

www.act.appstate.edu

With social justice at its philosophical root, service-learning is a progressive teaching method used by faculty in many disciplines. It links the educational goals of a course to relevant community service activities, and includes structured, critical reflection within the classroom – thereby increasing students' understanding of both course content and its impact on communities. Community-based research is a collaborative, change-oriented, method of engagement which finds its questions within the needs of the community. This dynamic research model combines classroom learning with social action in ways that ultimately empower communities to address their own challenges and shape their own futures. For more information, please stop by the ACT Community Outreach Center in Room 218 of the Plemmons Student Union or visit the ACT website at www.act.appstate.edu.

For more information, please contact the Director of Service-Learning at (828) 262-8211.

Citizen Scholar - Undergraduate Certificate (608A/33.0104)

Appalachian State University encourages students to look beyond the boundaries of the classroom through a variety of civic engagement opportunities. The Citizen Scholar certificate program honors students who have participated in a significant number of service-learning courses throughout their collegiate career and have distinguished themselves by demonstrating an outstanding level of commitment to civic leadership and social responsibility.

The program of study is available at: www.programsofstudy.appstate.edu/citizen-scholar-certificate-608a-2012-2013

REQUIREMENTS - Students completing the Citizens Scholar certificate program must:

1. Meet all requirements for graduation with a 3.0 GPA or higher.
2. Complete at least four (4) ACT-sponsored service-learning and/or community-based research courses (12 semester hours of credit). Not all courses must be related to their chosen major or minor.
3. Compile a portfolio of assignments done in service-learning courses, as well as final reflections from those courses.
4. Participate in one of the following service-learning capstone projects in their final year at Appalachian State University:
 - Take the Public Service Research Program course, or an independent study, to complete a community-based research project that includes field work, a written report, and an action plan.
 - Participate in a long-term International Service-Learning experience, of at least 3 semester hours of credit and/or 6-8 weeks in length. Students will be required to write a final paper reflecting on their experiences and addressing how future students may contribute to that community based on its needs, population, and the agency with which they worked.

Students should consult with their major advisor and with the ACT office on ways in which the service-learning capstone project may be integrated into the capstone required for their major.

HOW TO APPLY:

- The semester before you plan to graduate, complete the CSCP Application and send it via email to Shari Galiardi, Director of Service-Learning, at galiardisl@appstate.edu. **Important Deadlines - For December Graduation: January 15; For May/August Graduation: September 15.** (e.g., if you plan to graduate in May/August 2014, submit your application by September 15, 2013; if you plan to graduate in December 2014, submit your application by January 15, 2014.)
- Turn in your service-learning portfolio prior to Fall/Spring Break of your final semester. This portfolio will be read by a team of faculty, staff, students, and community partners.

ALL CITIZEN SCHOLARS WILL BE RECOGNIZED WITH A:

- certificate at the ACT Celebration in April
- designated stole at commencement
- note on your academic transcripts

For more information and for details on how to apply, visit: www.act.appstate.edu/citizen-scholar.

General Education

www.generaleducation.appstate.edu

Paulette J. Marty, Director

Kristin M. Hyle, Assistant Director

A degree from Appalachian State University begins with the General Education Program. Its interdisciplinary curriculum provides a challenging liberal education through which students learn to adapt to new environments, integrate knowledge from diverse sources, and continue learning throughout their lives. The General Education Program draws on nationally identified best educational practices, as well as what employers demand from today's graduates.

The General Education Program has four goals for students: thinking critically and creatively, communicating effectively, making local to global connections, and understanding responsibilities of community membership.

The General Education Program accounts for 44 semester hours of a student's degree program. A total of 29 semester hours come from the program's four integrated perspectives - Aesthetic, Historical and Social, Local to Global, and Science Inquiry - with multi-disciplinary themes from which students select their courses.

The program also includes writing courses at the freshman, sophomore, and junior level; quantitative literacy courses to develop reasoning and numerical skills; and a wellness literacy requirement to enhance students' knowledge and management of their personal health in all its dimensions. The General Education Program culminates with a capstone experience in the student's major.

Writing Across the Curriculum (WAC)

www.wac.appstate.edu

Georgia B. Rhoades, Director

The Writing Across the Curriculum Program (WAC) works closely with General Education, the University Writing Center, the Composition Program in English, and faculty in the disciplines (WID) to support faculty development in the teaching of the vertical writing model and assessment of writing. WAC consultants offer individual, group, and program workshops in writing pedagogy and have worked with faculty in most programs in the university. WAC sponsors workshops in the teaching of writing and offers opportunities for conversations between faculty in first-year writing and the disciplines as well as course-specific faculty development for ENG 2001, Introduction to Writing Across the Curriculum.

First Year Seminar

Michael L. Krenn, Faculty Coordinator

www.firstyearseminar.appstate.edu

First Year Seminar is a first year course in the General Education Program. Required of all new students, these seminars help students integrate knowledge and bridge concepts across academic disciplines through an interdisciplinary approach. These small classes are taught by experienced faculty who are committed to helping new students successfully transition to a four year university by developing creative and critical thinking abilities, cultivating effective communication skills, and introducing students to a variety of research tools and methods.

First Year Seminar Policy for Transfer Students

Students who transfer to Appalachian State University with 0-29 semester hours and/or who enter Appalachian within one year of high school graduation will be required to take UCO 1200 (First Year Seminar) or its equivalent.

Students who transfer to Appalachian State University at least one year after high school graduation and who have 30 or more semester hours of transferable work will be exempted from the First Year Seminar requirement. This may result in a reduction of 3 semester hours in the general education requirements for each of these students. If a student completes all other graduation requirements and falls short of the minimum number of hours for graduation, they will be required to make up the shortage of hours by completing other coursework.

Students who have earned 60 or more semester hours at any combination of institutions will not be allowed to enroll in UCO 1200. If a student with 60 or more semester hours wishes to enroll and has a pedagogically sound reason for wanting to do so, she or he may request permission to enroll in UCO 1200 from the Office of General Education.

For students affected by this policy, the Office of Transfer Articulation will add to the record of transfer work a course of UCO MET with a grade of CR. UCO MET will serve as an equivalent to UCO 1200 for purposes of major declaration and enrollment in ENG 2001 (Introduction to Writing Across the Curriculum).

Courses of Instruction - University College (UCO)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

UNIVERSITY COLLEGE (UCO)

UCO 1200. First Year Seminar (3).F;S.

GEN ED: First Year Seminar

The first year seminar engages students and faculty in a shared process of inquiry around a broad, interdisciplinary topic or question. Utilizing at least two different modes of inquiry, as well as varied and engaging pedagogies, this seminar aims to help students develop their abilities to think critically and communicate effectively. It also aims to help students make connections with faculty, peers, the university, and the curriculum. UCO 1200 or an equivalent "First Year Seminar" course (such as HON 1515, Freshman Honors Seminar, or WGC 1103, Investigations: Local) is required of all freshmen. It is also required of all transfer students with less than 30 semester hours of transferable work or who graduated from high school less than one year before their matriculation date. Transfer students with 30-59 semester hours of transferable work are eligible to enroll, but it is not required. Students with 60 or more earned hours are not eligible to enroll without permission from the Office of General Education.

Watauga Global Community

David Huntley, Director

www.wataugaglobal.appstate.edu

Watauga Global Community is an interdisciplinary, internationally-focused program of general education located in the Living Learning Center (LLC). Watauga pursues its mission through a sequenced, experiential curriculum that incorporates community-based research and multicultural immersion, consciously connecting students' academic, social, cultural, and residential experiences. The curriculum and community create an atmosphere of discovery that leads to an awareness and understanding of local issues and of the relationships between these and significant global issues, blending academic accomplishments with an understanding of the responsibilities of community membership.

Watauga Global Community is structured to develop students' expertise in the three dimensions of knowledge, skills, and competency. Knowledge comes from a full understanding of and the ability to synthesize information after assessing its relevance and quality. Skills are based on the appropriate methods of searching, assembling, demonstrating, and communicating knowledge and practice. Competency is broadly defined as the ability to combine knowledge, practical skills, and the social understanding and behaviors necessary to be a fully functioning member of a community at many levels, from the individual to the small work group to the larger community. The program takes a holistic approach to living and learning, emphasizing the academic and social community through collaborative team teaching and shared co-curricular activities and modeling a way of being that includes but surpasses academic excellence.

Over the course of five semesters, students take courses in Watauga, coordinating these classes with Appalachian's General Education requirements, with classes in their major, and with electives. Watauga classes fit a variety of formats: lectures, smaller discussion sections, small project groups, linked classes, and trips beyond the classroom, providing many different approaches for comprehensive learning, ensuring that one or more of these formats will be ideally suited to a diverse population of students. These classes require students to be active participants in all phases of learning—listening, discussing, questioning, researching, and collaborating on group projects.

The residential component, and the resulting community, both complement and support Watauga's academic mission. The bonding among faculty, staff, and students is a natural result of shared academic work, community-based research, collaborative group projects, and the necessary involvement of all residents in the dynamics of a residence hall that is to an extent self-governing. The Watauga community provides an identity for all students in the program and is the basis upon which all activities, from the structured to the spontaneous, take place. At the same time, students remain free to pursue their choice of a major and to enjoy a wide range of student activities offered by Appalachian, including intramurals, service clubs, student government, fraternities and sororities. Watauga Global Community offers the benefits of a small, close-knit academic community within the broad range of opportunities available at a comprehensive university.

All Watauga freshmen live in the Living Learning Center, sharing this space with future educators, international exchange and degree-seeking students, and members of the Language and Culture Community, as well as upper-class students in all four programs. Because of the proximity of faculty offices, classrooms, kitchens, and lounges, as well as a music room, library, and vegetable garden (The Edible Schoolyard), residents of the LLC and program faculty frequently interact at all levels from the social to the academic.

Watauga Global Community attracts a diverse group of students from a variety of ethnic, political, religious, and geographic backgrounds. Computer enthusiasts and creative writers, artists and scientists, actors and activists, entrepreneurs and missionaries all feel equally at home in Watauga.

Courses of Instruction - Watauga Global Community (WGC)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

WATAUGA GLOBAL COMMUNITY (WGC)

WGC 1103. Investigations: Local (6).F. *Priority enrollment given to Watauga Global Community students.*

GEN ED: First Year Seminar and First Year Writing

An experiential, interdisciplinary study in the humanities and social sciences of significant local issues (historical, economic, social, cultural, ideological, aesthetic) and their relationships with regional, national, and global issues.

WGC 1104. Investigations: Global (6).S. *Priority enrollment given to Watauga Global Community students.*

GEN ED: Local to Global Perspective

An experiential, interdisciplinary study in the humanities and social sciences of significant global issues (historical, economic, social, cultural, ideological, aesthetic) and their relationships with local, regional, and national issues.

WGC 2001. Tangents (3).F;S.*GEN ED: Second Year Writing*

This course introduces students to writing across the curriculum. Students write in different genres for different academic communities, read a variety of academic texts rhetorically, and analyze the writing conventions of various academic communities. Prerequisites: completion of 30 semester hours of credit including WGC 1103; OR, completion of 30 semester hours of credit including ENG 1000 and either UCO 1200 or HON 1515. (WRITING)

WGC 2100-2199. Tangents (3).F;S.*GEN ED: Historical and Social Perspective (Theme: "Understanding Culture Through Social Practice"). Fine Arts, Historical Studies, and Literary Studies Designations approved subject to semester-by-semester recommendation by the General Education Council.*

An experiential, interdisciplinary study in the humanities and/or social sciences of the historical, social, literary, cultural, and/or aesthetic perspectives of specific topics. Course content and topics will vary. (WRITING; SPEAKING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/SOCIAL SCIENCES) Core curriculum credit approved subject to semester-by-semester recommendation by the AP&P Committee.

WGC 2203. Peer Leader (1).F;S.

The performance of academic service within Watauga Global Community, including but not limited to classroom and research assistance.

WGC 2300-2399. Tangents (3).F;S.*GEN ED: Aesthetic Perspective (Theme: "Creative Expressions of Culture"). Fine Arts, Historical Studies, and Literary Studies Designations approved subject to semester-by-semester recommendation by the General Education Council.*

An experiential, interdisciplinary study in the humanities and/or social sciences of the historical, social, literary, cultural, and/or aesthetic perspectives of specific topics. Course content and topics will vary. (WRITING; SPEAKING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/SOCIAL SCIENCES) Core curriculum credit approved subject to semester-by-semester recommendation by the AP&P Committee.

WGC 2500. Independent Study (1–4).On Demand.**WGC 2530–2549. Selected Topics** (1–4).On Demand.**WGC 3100-3199. Junior Seminar** (3).F;S.*GEN ED: Historical and Social Perspective (Theme: "Understanding Culture Through Social Practice"). Fine Arts, Historical Studies, and Literary Studies Designations approved subject to semester-by-semester recommendation by the General Education Council.*

An experiential, interdisciplinary study in the humanities and/or social sciences or natural sciences of the historical, social, literary, cultural, aesthetic, and systems analysis perspectives of specific topics. Course content and topics will vary. (WRITING; SPEAKING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/SOCIAL SCIENCES) Core curriculum credit approved subject to semester-by-semester recommendation by the AP&P Committee.

WGC 3300-3399. Junior Seminar (3).F;S.*GEN ED: Aesthetic Perspective (Theme: "Creative Expressions of Culture"). Fine Arts, Historical Studies, and Literary Studies Designations approved subject to semester-by-semester recommendation by the General Education Council.*

An experiential, interdisciplinary study in the humanities and/or social sciences or natural sciences of the historical, social, literary, cultural, aesthetic, and systems analysis perspectives of specific topics. Course content and topics will vary. (WRITING; SPEAKING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/SOCIAL SCIENCES) Core curriculum credit approved subject to semester-by-semester recommendation by the AP&P Committee.

WGC 3500. Independent Study (1–4).On Demand.**WGC 3520. Instructional Assistance** (1).On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

WGC 3530–3549. Selected Topics (1–4).On Demand.**WGC 3664. Creative Writing in the Field: Black Mountain College** (6).S.

A course in the writing of creative non-fiction, with emphasis on site-based and archival research, personal interviews, and visual documentation. Assignments will include written work, oral presentations, workshop evaluations, and weekend, on-site visits to Black Mountain College and other relevant locations.

Courses of Instruction - University Studies (US)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

UNIVERSITY STUDIES (US)

US 1020. Learning Skills (2).F;S.

A survey of skills and techniques instrumental for classroom learning. Emphasis is placed on note-taking styles, test-taking skills, textbook reading techniques and organizational structures. Enrollment limited to freshmen and sophomores.

US 1530-1531. Selected Topics (1-4).F;S.On Demand.

US 2500. Independent Study (1-4).F;S.

US 3500. Independent Study (1-4).F;S.

US 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the University level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

US 3530-3549. Selected Topics (1-4).F;S.On Demand.

US 3800. International Study (12).F;S.

A course title for Appalachian students studying abroad within an approved exchange program. Course title is restricted to students approved by the Director of International Programs. Students will complete courses overseas and transfer work into appropriate Appalachian credits within one semester upon return. May be repeated once. (MULTI-CULTURAL)

US 4559. Wilderness Education Practicum (4).F;S.

Through wilderness challenges supervised by an Outward Bound School or the Wilderness Center at the University, the student will have the opportunity to learn such skills as bicycle touring and rockclimbing or ski mountaineering and primitive caving. The goals of this course will be centered around encouraging self-awareness and personal responsibility, developing a sense of conscience and competence, stimulating awareness of nature and human relationships and integrating all aspects of one's personal life. Graded on an S/U basis.

Appalachian Studies Program (AS)

Patricia D. Beaver, Director of the Center for Appalachian Studies

Katherine E. Ledford, Director of the Appalachian Studies Program

Appalachian Studies Faculty:

Chris A. Badurek, Geography and Planning

Sandra L. Ballard, Appalachian Journal/English

Joseph R. Bathanti, English

Jefferson C. Boyer, Anthropology

Sarah K. Carmichael, Geology

E. Cecelia Conway, English

Christoffel den Biggelaar, Sustainable Development

James R. Goff, Jr., History

Thomas S. Hansell, University Documentary Film Services

Fred J. Hay, W.L. Eury Appalachian Collection

Susan E. Keefe, Anthropology

Bradley Nash, Jr., Sociology

Elaine J. O'Quinn, English

Conrad E. Ostwalt, Jr., Philosophy and Religion

Phoebe A. Pollitt, Nursing

Janice T. Pope, Communication

Norma M. Riddle, University Archives and Records

Lynn Moss Sanders, English

Timothy H. Silver, History

Neva J. Specht, History

Bruce E. Stewart, History

Gary L. Walker, Biology

Jennifer H. Westerman, Sustainable Development

Thomas R. Whyte, Anthropology

Wayne E. Williams, Health, Leisure and Exercise Science

The Appalachian Studies program coordinates curriculum offerings, projects, and research relating to the Appalachian region.

The southern Appalachian region's unique mix of scenic beauty, distinctive cultures and communities, and wealth in natural resources inspires an enduring search for a balanced regional future, a future which will preserve Appalachia's environment, cultural and historical character, while encouraging full participation in the opportunities of citizenship. The Appalachian Studies program contributes to scholarship in the humanities and social sciences, practice in the folk and fine arts, and service to regional communities and organizations.

The search for Appalachia's future takes place in a global context. For centuries of a locus of migrations and trade, the region confronts environmental, economic, and cultural challenges which are also faced by other mountain and "peripheral" regions throughout the nation and the world. Appalachian Studies links the local and national, the regional and global, providing both a framework and a training ground for addressing local and global concerns.

Appalachian Studies offers the following:

The Bachelor of Arts degree in Appalachian Studies (600A/05.0199)

The Bachelor of Arts degree in Appalachian Studies will provide students with the opportunity to study the Appalachian region through the application of interdisciplinary methods. The student will consider perspectives on Appalachia of the social and biological sciences, humanities, and fine and applied arts; experience local or international community; be provided with methods and theoretical grounding appropriate to the student's focus; and participate in a final capstone seminar.

The program of study is available at: www.programsofstudy.appstate.edu/appalachian-studies-ba-600a-2012-2013

Minor in Appalachian Music: Roots and Influences (100/05.0199)

The program of study is available at: www.programsofstudy.appstate.edu/appalachian-music-roots-and-influences-minor-100-2012-2013

Minor in Appalachian Studies (204/05.0199)

The program of study is available at: www.programsofstudy.appstate.edu/appalachian-studies-minor-204-2012-2013

Honors Program in Appalachian Studies

The Appalachian Studies program maintains an honors track to provide qualified students with an opportunity for advanced research in a seminar setting. Honors courses in the track are open to students who meet the criteria for admission. These courses are available for students at the sophomore, junior, and senior level.

Admission to the honors program in Appalachian Studies requires completion of AS 2410 or AS 2411 and a minimum GPA of 3.45, both overall and in the Appalachian Studies major. In order to remain in the honors track, students must earn at least a "B" in honors courses.

To graduate with "honors in Appalachian Studies," a student must have a minimum GPA of 3.45, overall and in the Appalachian Studies major, and must take nine semester hours of Appalachian Studies honors credits with a 3.45 average or better, including

AS 4510 (Senior Honors Thesis) with honors. Upon admission to the honors track, students will determine their focus-area honors courses in consultation with the advisor. This will become part of their program of study.

The nine semester hours in Appalachian Studies include:

1. Two honors courses in the focus area. These can be appropriate honors courses from another department or a graduate course, if the student has the appropriate preparation. These courses must count in the student's focus area.
2. AS 4510, Senior Honors Thesis (3 s.h.) (*Prerequisite: AS 2510 or AS 2515 with a grade of "B" or higher.*)

A Master of Arts degree in Appalachian Studies (204*/05.0199) with three interdisciplinary concentrations:

1. **Appalachian Culture Area concentration (204B)** focuses on scholarship and research in the social sciences, humanities, and fine and applied arts, seeking to deepen understanding of the Appalachian socio-cultural and historical experience.
2. **Appalachian Music: Roots and Influences concentration (204D)** provides instruction and opportunities for scholarship on the varieties of traditional music traditions that intersect in the southern Appalachian region.
3. **Sustainable Development concentration (204C)** is based on applied research and interdisciplinary course work spanning the social and natural sciences as well as the humanities. It provides a foundation for those students who seek to develop the means for meeting the legitimate needs of present generations without compromising the ability of future generations to meet their needs. For students interested in Appalachian and other highland and rural peoples, as well as other peoples threatened by the results of unsustainable practices and patterns, this course of study provides the background in the search for sustainable solutions. Consult the *Graduate Bulletin* for further information.

A graduate minor in Appalachian Studies (203/05.0199) (Consult the *Graduate Bulletin*.)

An on-campus graduate certificate in Appalachian Studies (200A/05.0199). For more information, contact the certificate program director at (828) 262-4089 or visit www.appstudies.appstate.edu. Consult the *Graduate Bulletin* for further information.

An online graduate certificate in Appalachian Studies (200A/05.0199). For more information, contact the certificate program director at (828) 262-4089 or visit www.appstudies.appstate.edu. Consult the *Graduate Bulletin* for further information.

Courses of Instruction in Appalachian Studies (AS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

APPALACHIAN STUDIES (AS)

AS 2016. Appalachian Music (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

A survey of Appalachian music including both instrumental and vocal styles, older traditions and newer regional forms. Students will have opportunities to develop musical skills through hands-on class projects and activities. Lecture three hours. (Same as MUS 2016.) (CORE: HUMANITIES)

AS 2025. Appalachian Strings (3).F;S.

Introductory instruction in stringed instruments and styles commonly heard in old-time, old-time country, and bluegrass music, including basic music theory. Lecture and demonstration three hours.

AS 2301. The History of Coal from the Pennsylvanian to the Present (3).S.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

Coal has played a critical role in the history of the southern Appalachians. The geologic processes that formed coal and shaped the landscape into the steep ridges and hollows of the Appalachian coalfields have directly affected the human history of the region – from hunting in pre-colonial times, to settlement and subsistence farming in the 1800s, to mining and unionization in the 1900s, to mountaintop removal and natural gas/coalbed methane extraction in the last decade. This course covers the physical and chemical processes that form coal as well as the tectonic and geomorphologic processes that formed the landscape of the coalfields and shaped the agricultural practices of the early settlers. It examines the cultural history of coal mining and life in the company-owned coal camps and the political history of unionization through literature and film. The economics and environmental consequences of coal-fired power plants are discussed, and the environmental and occupational hazards associated with both underground and surface coal mining are analyzed from both a scientific and a sociological perspective. (Same as GLY 2301.)

AS 2410. Appalachia: An Introduction (Humanities) (3).On Demand.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

This course explores the Appalachian region from a cross-disciplinary perspective, with readings on Appalachia drawn primarily from the humanities. Both historical and contemporary issues are examined, focusing upon national and international as well as local and regional contexts. This course provides an introduction to the Bachelor of Arts degree in Appalachian Studies and to the undergraduate minor in Appalachian Studies. Students who take AS 2410 cannot take AS 2411 for credit. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

AS 2411. Appalachia: An Introduction (Social Sciences) (3).On Demand.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

This course explores the Appalachian region from a cross-disciplinary perspective, with readings on Appalachia drawn primarily from the social sciences. Both historical and contemporary issues are examined, focusing upon national and international as well as local and regional contexts. This course provides an introduction to the Bachelor of Arts degree in Appalachian Studies and to the undergraduate minor in Appalachian Studies. Students who take AS 2411 cannot take AS 2410 for credit. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

AS 2510. Sophomore Honors Colloquium (Humanities) (3).F.On Demand.

Seminar on a selected topic or topics in Appalachian Studies, encouraging independent scholarship through reading, writing and discussion. Enrollment is by invitation or application. Content will vary. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

AS 2515. Sophomore Honors Colloquium (Social Sciences) (3).S.On Demand.

Seminar on a selected topic or topics in Appalachian Studies, encouraging independent scholarship through reading, writing and discussion. Enrollment is by invitation or application. Content will vary. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

AS 2530–2549. Selected Topics (1-4). On Demand.

AS 3000. Diversity in Appalachia (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

Diversity in Appalachia considers gender and/or ethnic diversity in the Appalachian region from interdisciplinary perspectives, and may focus on women, gender, ethnic diversity, or one or more ethnic communities. Content may vary. Prerequisite: ENG 2001 or its equivalent. (WRITING)

AS 3500. Independent Study (1-3).F;S.

AS 3530–3549. Selected Topics (1-4). On Demand.

AS 4015. Old Time Music Traditions (3).F. Alternate years.

A multi-cultural study of old time music and its roots, with interdisciplinary approaches from the humanities and social sciences. Lecture three hours. (MULTI-CULTURAL; CROSS-DISCIPLINARY) [Dual-listed with AS 5015.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

AS 4030. Bluegrass Traditions (3).F. Alternate years.

The genesis of bluegrass music from its beginnings to its major redefinition in the mid-1970s. Lecture three hours. (CROSS-DISCIPLINARY) [Dual-listed with AS 5030.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

AS 4110. Ethnographic Field Study (1-6).On Demand.

Variable content. Course involves immersion in a field setting either in the U.S. or through study abroad. Topics, approach, and field sites will be indicated on course syllabi and semester schedules. (MULTI-CULTURAL)

AS 4510. Senior Honors Thesis (3).F;S.

Independent study and research. Honors thesis directed by a member of the Appalachian Studies faculty and graded by a committee appropriate for the topic. Oral presentation. Prerequisite: AS 2510 or AS 2515 with a grade of "B" or higher. (WRITING)

AS 4530–4549. Selected Topics (1-4). On Demand.

AS 4550. Senior Seminar (3).F.

GEN ED: Capstone Experience

This final capstone seminar provides students the opportunity for a synthesis of theoretical perspectives on the region as they influence interpretations of historical and contemporary issues shaping the region; for understanding local to global connections; for considering the confluence of ecological, economic and social uses which intersect in this region; and for debating the obligations of community membership. Students will prepare a portfolio in preparation for careers and post-graduate opportunities. (WRITING; SPEAKING; CROSS-DISCIPLINARY)

AS 4900. Field Experience: Internship (1-6). On Demand.

Graded on an S/U basis.

Global Studies Program (GLS)

Alexandra Sterling-Hellenbrand, Director

Global Studies Faculty:

Shawn D. Arthur, *Philosophy and Religion*

C. William Atkinson, *English*

Christopher A. Badurek, *Geography and Planning*

James F. Barnes, *Government and Justice Studies*

Patricia D. Beaver, *Appalachian Studies*

Edward J. Behrend-Martinez, *History*

Eli Bentor, *Art*

Jeffrey L. Bortz, *History*

Jefferson C. Boyer, *Anthropology*

Rennie W. Brantz, *History*

Sushmita Chatterjee, *Women's Studies*

Zhiyuan Chen, *Languages, Literatures, and Cultures*

Cheryl P. Claassen, *Anthropology*

Victoria K. Cox, *Languages, Literatures, and Cultures*

Benito del Pliego, *Languages, Literatures, and Cultures*

Christoffel den Biggelaar, *Sustainable Development*

Jeanne A. Dubino, *University College*

George Ehrhardt, *Government and Justice Studies*

Thomas B. Ellis, *Philosophy and Religion*

Brian A. Ellison, *Government and Justice Studies*

Jari Eloranta, *History*

Catherine Fountain, *Languages, Literatures, and Cultures*

Jeremy B. Fox, *Management*

Martial Frindéthié, *Languages, Literatures, and Cultures*

Lynne M. Getz, *History*

Howard A. Giskin, *English*

René H. Horst, *History*

Amy C. Hudnall, *History*

William M. Hutchins, *Philosophy and Religion*

Anatoly V. Isaenko, *History*

James M. Ivory, *English*

Brent James, *Languages, Literatures, and Cultures*

Kevin G. Kennedy, *Languages, Literatures, and Cultures*

Kathryn J. Kirkpatrick, *English*

Jeremiah M. Kitunda, *History*

Michael L. Krenn, *History*

Michael E. Lane, *Languages, Literatures, and Cultures*

Jesse L. Lutabingwa, *Government and Justice Studies*

Dorothea A.L. Martin, *History*

Holly E. Martin, *English*

Richard G. McGarry, *Languages, Literatures, and Cultures*

Terence Milstead, *Geography and Planning*

Diane P. Mines, *Anthropology*

Maria P. Napiorski, *Languages, Literatures, and Cultures*

L. Baker Perry, *Geography and Planning*

Gregory G. Reck, *Anthropology*

Gwen M. Robbins, *Anthropology*

Curtis R. Ryan, *Government and Justice Studies*

Renee G. Scherlen, *Government and Justice Studies*

Kathleen A. Schroeder, *Geography and Planning*

Laurie R. Semmes, *Music*

Timothy J. Smith, *Anthropology*

James A. Toub, *Art*

Xiaofei Tu, *Philosophy and Religion*

Emmanuel Ike Udogu, *Government and Justice Studies*

Heather L. Waldroup, *Art*

Jay A. Wentworth, *Interdisciplinary Studies*

Cynthia A. Wood, *Sustainable Development*

Global Studies is an interdisciplinary and multidisciplinary academic program devoted to the understanding of historical, social, political, geographic, cultural, and artistic dimensions of international, transnational, and global processes. Students may choose to focus on any of the several aspects of global studies: area studies, international studies, postcolonial studies, or a topical field such as development and globalization. The aim of the program is to: (1) give students competency within their focus area; (2) foster an appreciation of the connections between themselves and the rest of the world, and; (3) encourage students to become knowledgeable, active participants in the global arena. The teaching of global studies emphasizes critical thinking and problem solving skills.

The Global Studies Program is on the web at www.globalstudies.appstate.edu and available by telephone at (828) 262-3177.

The Bachelor of Arts degree in Global Studies (601A/30.2001)

The general features of the Bachelor of Arts degree in Global Studies are: (1) a series of core courses which give all GLS majors a firm grounding in Global Studies theory, perspectives and methods; (2) a coherent group of courses in one focus area; (3) a substantial foreign language requirement; (4) a study abroad requirement; and (5) a capstone experience which integrates components of the student's program of study.

The program of study is available at: www.programsofstudy.appstate.edu/global-studies-ba-601a-2012-2013

Minor in Global Studies (601/30.2001)

The program of study is available at: www.programsofstudy.appstate.edu/global-studies-minor-601-2012-2013

Honors Program in Global Studies

The Global Studies Honors Program provides qualified students with an opportunity for advanced research in a seminar atmosphere. Honors courses for students who have distinguished themselves are available at the sophomore, junior and senior level. Junior and senior level honors courses carry full credit toward the focus area in the Global Studies major or, for non-majors, full elective credit.

Admission to the honors program in Global Studies requires completion of GLS 2000 and a minimum grade-point average of 3.0 (a "B" average), both overall and in the major. In order to remain in the program, students must maintain at least a "B" average in honors work. Upon admission to the honors program, students will determine their focus area honors courses in consultation with the advisor. This will become part of their program of study.

To graduate with "honors in Global Studies," a student must have a minimum grade-point average of 3.45, overall and in Global Studies, and must take nine semester hours of Global Studies honors credits with a "B" average or higher, including: GLS 4510 (Thesis/Project) with honors, and two honors courses that must count in the student's focus area. These two courses can be appropriate honors courses from other departments and/or graduate level courses, if the student has the appropriate preparation.

Undergraduate Certificate in Global Connections (612A/30.2001)

The Global Connections certificate is an undergraduate certificate administered through the Global Studies program and available to all Appalachian State University students. The certificate will include 15-21 semester hours of course work, study abroad, and at least 40 hours of community service. The amount of course work required may vary depending upon foreign language choice and placement. (NOTE: Students who begin their language study at Appalachian at the 1010-level will need to take 21 semester hours; students who receive 6 semester hours of retrocredits for prior language study will require 15 semester hours.) Students may combine their certificate requirements with requirements for other programs at Appalachian.

The program of study is available at: www.programsofstudy.appstate.edu/global-connections-certificate-612a-2012-2013

The Global Connections certificate will be available to all Appalachian State University students who meet a minimum of the following criteria:

1. Foreign Language: Students must complete the equivalent of at least two years of sequential college level course work in foreign language (the equivalent of four courses or twelve credit hours).

- a. No more than six semester hours of retrocredits (gained through placement and completion of the appropriate validation course) may count toward the certificate; at least two courses must be taken at Appalachian or through Appalachian approved study-abroad programs.
- b. Courses include ALL levels of foreign language taught at Appalachian at the 1000-level, 2000-level, and 3000-level (depending on student interest and ability)

Sample (the same would hold for any language):

- If students place into SNH 2005 and take SNH 2005 and SNH 2010, then the language requirement would be fulfilled. (NOTE: Students in this case will, upon successful completion of SNH 2005, receive retrocredits for SNH 1040 and SNH 1050.
- If students place into FRE 1040 and take FRE 1040 and FRE 1050, then the language requirement would be fulfilled. (NOTE: Students in this case will, upon successful completion of FRE 1040, receive retrocredits for FRE 1010 and FRE 1020.
- If students have no language experience and take GER 1010, GER 1020, GER 1040, and GER 1050, then the requirement would be fulfilled.

2. International Experience: Students must participate in an international service-learning program or in a short-term study abroad program in a location related to their language of study.

- a. These programs must involve at least one 3 s.h. course. Students who study abroad for a semester or a year in a location related to their language of study will also be considered to have met this requirement.
- b. Language courses (see #1) and international content courses (#3) can be taken abroad.
- c. International student teaching can count in this category. Interested teacher education students should contact the Reich College of Education.

3. International Content: Students must take nine credit hours of "international content" course work in addition to the foreign language course work required above in #1.

- a. No more than six semester hours of non-foreign language coursework from #2 may count toward this requirement; exceptions may be made for semester- or year-long study abroad.
- b. International content courses may include courses drawn from programs of study for elementary education and middle grades education that count in these second academic concentrations (or others as appropriate): Global Issues, Diversity Studies, Foreign Language, History.
- c. Students may consult the Global Studies focus areas for other international content courses at www.globalstudies.appstate.edu.

4. Community Service: Students must complete at least 40 hours of service or outreach related to diversity issues, multicultural issues, and/or study abroad experiences.

- a. Service completed through approved service-learning courses (on campus or abroad) or as part of a degree program (e.g. elementary education community service) may count toward certificate service hours.

Sample Service requirement for Elementary Education:

(NOTE: The Elementary Education major is used as an example here because it already includes these 40 hours as part of the requirements for the B.S. in Elementary Education. All of these hours can therefore count toward the Global Connections certificate requirements. This certificate does not lead to any kind of teacher licensure nor is it approved as a second academic concentration for Elementary Education.)

- The 20 community service hours done before Block I for Elementary Education majors can count toward this requirement
- The 10 hours of Service Learning done as part of CI 3000/SPE 3000 in Block I can count toward this requirement.
- The 10 hours of Service Learning done as part of CI 3110 Block II can count toward this requirement.

b. Service opportunities are not limited to the service done as part of a service-learning course.

- i. Students may, for example, participate in the AS*U*GO program doing outreach to the public schools and presenting on study abroad experiences/other cultures abroad to students in Partnership schools. (www.international.appstate.edu/outreach/)
- ii. Other options are available through individual departments or programs or through the ACT office (www.act.appstate.edu).

5. Reflection: Students will document their experiences in a portfolio that will include at least one final reflection paper (6-8 pages) specifically addressing the local and global connections of their experiences.

- a. Students will display an "active cultural understanding" that is essential for "understanding the responsibilities of membership in local, regional, and global communities" and that is "achieved by exploring multiple strategies for interacting with other peoples and cultures." (Making Local to Global Connections rationale from www.generaleducation.appstate.edu).
- b. Students should consult the Global Connections guidelines about appropriate documentation.
- c. The portfolio and final reflection paper will be submitted separately to the GLS curriculum committee for review by the deadlines in #6 below.

6. Review: The Global Studies Curriculum committee will be responsible for reviewing certificate documentation once per semester. An approximate timetable would be the following: before December 1 (for December graduates) and before April 20 (for May and August graduates).

For additional information, contact the Director of the Global Studies Program.

Courses of Instruction in Global Studies (GLS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

GLOBAL STUDIES (GLS)

GLS 2000. Contemporary Global Issues (3).F;S.

GEN ED: Local to Global Perspective (Themes: "Empire, Colonialism, and Globalization" and "Origins and Migrations")

This course examines a selection of global issues from a variety of perspectives and disciplines. Students will be exposed to the complexities of these issues, which are the result of the confluence of historical, geographical, economic, cultural, and political factors. Emphasis will be placed on how different societies view global issues, as well as how different perspectives can alter one's understanding of them. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

GLS 2500. Independent Study (1-4).On Demand.

GLS 2530-2549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the Global Studies curriculum. May be repeated for credit when content does not duplicate.

GLS 3500. Independent Study (1-4).On Demand.

GLS 3520. Instructional Assistance (1).On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

GLS 3530-3549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the Global Studies curriculum. May be repeated for credit when content does not duplicate.

GLS 4000. Seminar in Global Studies (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Students will engage in an intensive investigation of one or more global questions, themes, or issues in global studies. The class is organized as a seminar. Emphasis is placed on critical reading, research, writing, and speaking. The topic of this course will vary from semester to semester. Barring duplication of content, a student may repeat the course. The communication proficiency in Global Studies is met by earning a grade of "C" or higher in this course. Prerequisite: ENG 2001 or its equivalent. (WRITING; SPEAKING; MULTI-CULTURAL)

GLS 4510. Thesis/Project (3).S.

GEN ED: Capstone Experience

This is the required senior capstone course for a major in Global Studies. Students must complete a major project that makes use of and integrates the material from the Global Studies core in relation to a significant issue in Global Studies. Students may either write a thesis or conduct a project, which will be supervised by a member of the Global Studies faculty and read by another Appalachian State University faculty member in a field appropriate to the topic selected by the student. Prerequisites: GLS 4000 and senior standing.

GLS 4530-4549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the Global Studies curriculum. May be repeated for credit when content does not duplicate.

GLS 4900. Internship (1-9).On Demand.

Supervised work in an appropriate field experience. A critical means to apply theoretical constructs, methods and techniques learned in the classroom to real-world settings. The internship offers ways of acquiring practical work experience with community organizations, non-governmental organizations, governmental organizations, and businesses that work on global issues, both domestically and internationally. Internships may occur at the local, regional, state, national or international levels, but must be relevant to global studies. Prerequisite: student must get approval from an advisor in the Global Studies program prior to enrolling. Graded on an S/U basis.

Interdisciplinary Studies Program (IDS)

Ray Miller, Interim Director

Interdisciplinary Studies Faculty:

Sally S. Atkins, Human Development & Psychological Counseling

C. William Atkinson, English

Samuel Avery-Quinn, University College/Appalachian Studies

Antonio T. Bly, History

Jeffrey L. Bortz, History

Anthony G. Calamai, Physics and Astronomy

Tiffany Y. Christian, Social Work

Kristan M. Cockerill, Interdisciplinary Studies

Michael W. Dale, Leadership and Educational Studies

Susan C. Doll, Technology and Environmental Design

Jeanne A. Dubino, University College/Global Studies

Jill R. Ehnenn, English

Brian A. Ellison, Government and Justice Studies

Robert J. Falvo, Music

Joseph J. Gonzalez, Interdisciplinary Studies

Elaine Gray, Learning Technology Services

Tom S. Hansell, University Documentary Film Services

Amy C. Hudnall, History

Nancy S. Love, Government and Justice Studies

Martha McCaughey, Sociology

Diane P. Mines, Anthropology

Howard S. Neufeld, Biology

Laurie R. Semmes, Music

Derek Stanovsky, Interdisciplinary Studies

Jim A. Toub, Art

Xiaofei Tu, Philosophy and Religion

Alan C. Utter, Health, Leisure and Exercise Science

Jay A. Wentworth, Interdisciplinary Studies

The mission of Interdisciplinary Studies directs us to foster awareness of the interrelatedness of existing forms of knowledge and to create new interrelated knowledge while recognizing that knowledge is partial and is shaped by historical, social, cultural and personal contexts. The Interdisciplinary Studies program pursues its mission through the Bachelor of Arts degree in Interdisciplinary Studies, encompassing six concentrations connected by a common core, and four undergraduate minors. Interdisciplinary Studies is committed to experimentation and innovation in curriculum, teaching, research, and creative activity.

Interdisciplinary Studies offers courses that bridge academic disciplines, involve knowledge generated in multiple disciplines, and make connections between academic knowledge and knowledge generated outside academics. Interdisciplinary methodologies take root in the complexity of the opportunities and problems we encounter in the twenty-first century; they offer responses that connect, rather than fragment, the elements of experience. Rather than stressing the uniqueness of separate disciplines, interdisciplinary inquiry leads students towards syntheses, and thus towards an appreciation of the interconnectedness of the world.

Interdisciplinary pedagogy emphasizes low teacher-student ratios that enable highly interactive discussion-oriented classes, seminars, team-teaching, self-directed inquiry, and experiential education. Experimentation and innovation in teaching and learning styles lead to a flexible, progressive, and integrated curriculum. Interdisciplinary Studies encourages students and faculty to develop a sense of the world that is both broad and deep, to embark upon a practice that allows one to learn, teach, create and research across the boundaries that separate academic disciplines and that separate academic from other forms of knowing.

The Interdisciplinary Studies program offers the following:

- Bachelor of Arts degree in Interdisciplinary Studies (250*/24.0101) with concentrations in: American Studies (250B), Environmental Policy and Planning (250D), Individually Designed (250E), Internet Studies (250Q), Labor Studies (250S), and Liberal Studies: Modern Period (250L)
- Undergraduate minor in Africana Studies (611/05.0201)
- Undergraduate minor in Interdisciplinary Studies (112/24.0101)
- Undergraduate minor in Internet Studies (250/24.0101)
- Undergraduate minor in Labor Studies (249/24.0101)
- Undergraduate minor in Non-Profit Management (609/52.0206)
- Undergraduate certificate program in Non-Profit Management (609A/52.0206)

For additional information, visit their web site at www.ids.appstate.edu or contact the Director at (828) 262-3177.

Interdisciplinary Selected Topics Courses

Each semester, the Interdisciplinary Studies Program offers selected topics courses open to students from all departments. The emphasis is on relevant, experimental, and imaginative subject matters and pedagogies that require interdisciplinary approaches. While some courses may be taught more than one semester, their topical character ensures variety and change. Recent courses include: "Literature, Philosophy, Emotion," "Freudian Dreams," "Music and Social Change," "Introduction to Peace Studies," "Multicultural Leadership," and "The Making of Modern China." They typify the ethos and spirit of the program.

The Bachelor of Arts degree in Interdisciplinary Studies (250*/24.0101)

The general features of the Bachelor of Arts degree in Interdisciplinary Studies are: (1) a series of required interdisciplinary core

courses which give all IDS majors a firm grounding in interdisciplinary perspectives and methods, and link them with the student's study in their concentration; and (2) students are required to complete one of the following six concentrations:

American Studies Concentration (250B) The American Studies concentration applies interdisciplinary methods to analyze the interrelationships among political, artistic, literary, physical and other factors which characterize American culture, past and present; both here and abroad. The goal is both a theoretical and practical understanding of American culture in a global/transnational context.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-ba-american-studies-250b-2012-2013

Environmental Policy and Planning Concentration (250D) By combining a background in science with the perspectives of economics, planning, and political science, students will have the opportunity to consider public responses to ecological issues. They will learn to formulate and implement creative but practical public policy and procedures regarding the environment.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-ba-environmental-policy-and-planning-250d-2012-2013

Individually Designed Concentration (250E) This concentration allows students to tailor a major to their particular academic and career goals. Students selecting this concentration must design a clear, defensible statement of goals explaining why such goals can best be met through interdisciplinary means. Additionally, the student must complete a "Program of Study Contract" consisting of a minimum of 24 semester hours selected from two or more disciplines with at least 12 semester hours at the 3000 level or above. The contract must be approved by an IDS advisor; the contract may be changed, but only with the approval of the IDS advisor and the IDS program director. A copy of the contract must be on file in the University College Academic Advising Office.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-ba-individually-designed-250e-2012-2013

Internet Studies Concentration (250Q) The interdisciplinary concentration in Internet Studies provides students with the opportunity to study and explore the social, political, technical, cultural, and artistic dimensions of the Internet. The goal is to help students gain an understanding of the impacts this emerging technology is having on our world, as well as provide practical experience in Internet technologies.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-ba-internet-studies-250q-2012-2013

Labor Studies Concentration (250S) The Labor Studies concentration under the B.A. degree in Interdisciplinary Studies provides academic leadership to the Appalachian State University community on historical, theoretical, and contemporary issues of labor. Leadership in the classroom is expressed through a progressive curriculum that encourages integration of theory and practice. Work is a major life activity, indeed a defining activity of adulthood. The study of work and workers, from the perspective of the liberal arts, brings together a variety of social science and humanities disciplines including anthropology, economics, English, history, management, philosophy, political science, psychology, and sociology. Outside the classroom, leadership is expressed through a variety of venues. On campus, we serve as a reservoir of expertise and support on issues pertaining to labor. Off campus, our outreach efforts open opportunities for integrating classroom work with practical experience in the labor community.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-ba-labor-studies-250s-2012-2013

Liberal Studies: Modern Period Concentration (250L) A study of the causes and consequences of the Enlightenment—the movements, revolutions, reactions and revivals which led to and derived from it. Appreciating the elements of Western Culture that preceeded the Enlightenment, the student will have the opportunity to trace the progress of liberalism, nationalism, romanticism, socialism and evolutionary theory. From this intellectual basis, the student will have the opportunity to engage contemporary discussions about post-modernity, pluralism, and the prospects for achieving a global cultural system.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-ba-liberal-studies-modern-period-250l-2012-2013

Interdisciplinary Minors and a Certificate Program

Minor in Africana Studies (611/05.0201) The Africana Studies minor (18 semester hours) offers students the opportunity to examine the complex historical, social, political, cultural, and economic issues associated with peoples of African descent. The minor integrates academic disciplines and includes over 90 semester hours of course offerings.

The program of study is available at: www.programsofstudy.appstate.edu/africana-studies-minor-611-2012-2013

Minor in Interdisciplinary Studies (112/24.0101) The minor in Interdisciplinary Studies consists of 18 semester hours. Of these, twelve are required, and six are elective. The twelve required hours correspond to the core of the IDS major program and provide a comprehensive introduction to the central practical and conceptual concerns of interdisciplinary studies.

The program of study is available at: www.programsofstudy.appstate.edu/interdisciplinary-studies-minor-112-2012-2013

Minor in Internet Studies (250/24.0101) The minor in Internet Studies is offered to students wishing to supplement their major with an interdisciplinary exploration of the Internet. The minor consists of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/internet-studies-minor-250-2012-2013

Minor in Labor Studies (249/24.0101) The minor in Labor Studies is offered for students who wish to supplement their major course of study with an interdisciplinary exploration of labor issues. The minor consists of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/labor-studies-minor-249-2012-2013

Minor in Non-Profit Management (609/52.0206) The undergraduate minor in Non-Profit Management is offered for students who wish to supplement their major course of study with an interdisciplinary exploration of non-profit management. The minor consists of 18 semester hours (optional 21 semester hours).

The program of study is available at: www.programsofstudy.appstate.edu/non-profit-management-minor-609-2012-2013

Undergraduate Certificate in Non-Profit Management (609A/52.0206) The undergraduate certificate in Non-Profit Management is offered for students (degree-seeking or non-degree-seeking) who wish to have an interdisciplinary knowledge of non-profit management but who do not qualify for or need a minor. The certificate consists of 18 semester hours (optional 21 semester hours).

The program of study is available at: www.programsofstudy.appstate.edu/non-profit-management-certificate-609a-2012-2013

Honors Program in Interdisciplinary Studies

The Interdisciplinary Studies program maintains an honors track to provide qualified students with an opportunity for advanced research in a seminar atmosphere. Honors courses are available in the program for students at the sophomore, junior, and senior level; these courses are open to students who have distinguished themselves. Junior and senior level honors courses carry full credit toward concentration requirements in the Interdisciplinary Studies major or, for non-majors, full elective credit.

Admission to the IDS honors program requires completion of IDS 3000 (Histories of Knowledges) and a minimum GPA of 3.0 ("B" average), both overall and in the major. In order to remain in the IDS honors program, students must maintain a 3.45 GPA each semester after admission to the IDS honors program. Upon admission to the IDS honors program, students will determine their honors courses based on their concentration and in consultation with their advisor.

To graduate with "honors in Interdisciplinary Studies," a student must have maintained a minimum GPA of 3.45 each semester after admission to the IDS honors program. IDS honors students must take at least ten semester hours of honors credits, including IDS 4510 (Senior Honors Thesis/Project) and its corequisite capstone experience course, IDS 4550 (Senior Seminar).

Courses of Instruction in Interdisciplinary Studies (IDS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

INTERDISCIPLINARY STUDIES (IDS)

IDS 2000. This Grand Experiment: An Introduction to American Studies (3).F.

GEN ED: Historical and Social Perspective (Theme: "This American Life")

Since the 1930s, scholars have been studying the core values and ideas that define American (U.S.) culture. American Studies scholars integrate ideas and methods from a diverse array of disciplines in examining what it is that makes this place and its people

"American." In this course, students will review the roots of American Studies and the concepts of exceptionalism, multiculturalism, and transnationalism, which have characterized how U.S. culture is perceived both here and abroad. Embedded in these concepts are physical, economic, political, and demographic characteristics that have historically defined and continue to define "America."

IDS 2200. Race and Resistance: Perspectives on African Americans in the Jim Crow South (3).S.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "Revolutions and Social Change")

Race remains one of America's central organizing principles. This course will explore how African Americans in the South, following the Civil War, struggled against white supremacy in their politics and in their culture, in the process creating perhaps our nation's most successful non-violent campaign for social change, the Civil Rights Movement. To do this, we will explore the African American experience from a variety of disciplinary perspectives: scholars from different disciplines, students will come to understand, can approach the past very differently. Students will also become acquainted with popular aspects of African American culture, such as jazz, blues, dance, religion and food. During the course of the semester, students will design their own research projects, integrating knowledge drawn from a variety of disciplinary approaches and methods, presenting their research in both written form and other media.

IDS 2210. Bodies, Places, Spaces, Times, and Things (3).S.

GEN ED: Aesthetic Perspective (Theme: "The Body: Expression, Presentation, and Representation")

Inquiring into the ways in which humans create, transmit and transform meaning materially, this course investigates the physical dimensions of human being - bodies (our own and others'), places, spaces, times, and things - exploring how dimensions of physical existence common to the human species bear variable meanings across personal and cultural boundaries. (WRITING; MULTICULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES or SOCIAL SCIENCES)

IDS 2302. Freudian Dreams (3).S.

GEN ED: Aesthetic Perspective (Theme: "Creative Expressions of Culture")

This course provides an introduction to dreams and psychoanalytic theory through a study of Sigmund Freud's influential book: *The Interpretation of Dreams*. The history of thought surrounding dreams, the creative process of dreaming and the transformation of thoughts and words into images, as well as the psychoanalytic interpretations of the social, sexual, and cultural meanings to be found in dreams will be examined and explored. Students will also be introduced to the idea of Freud as critique, as well as to some critiques of Freud's approach to dreams.

IDS 2450. Introduction to Not-for-Profit Organizations (3).S.

This course explores many facets of nonprofit organizations including organizational structure, laws, and regulations in nonprofit, employment and working conditions, entry methods into nonprofit careers, and segments of the nonprofit world of work. This course also explores the guiding principles, philosophy and mission of nonprofit organizations from an interdisciplinary approach, studying them from a societal, historical, political, legislative, and economic point of view. (CROSS-DISCIPLINARY)

IDS 2460. Savannah, Georgia (3).F.

This course, which involves travel to Savannah over Fall Break, will introduce students to the history, architecture, religious/spiritual heritage, folklore (based in art, music, cuisine, folk culture), and some community organization efforts of Savannah, Georgia. Students will have the opportunity to engage in reading and discussion prior to the Fall Break trip during which they will begin to develop projects that apply their reading to their experience. (SPEAKING; CROSS-DISCIPLINARY)

IDS 2500. Independent Study (1-4).F;S.

IDS 2530-2549. Selected Topics (1-4).F;S. On Demand.

IDS 3000. Histories of Knowledges (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course introduces central concerns of interdisciplinary studies through analyses of histories of knowledge production, definition, and categorization, cultural derivations and influences on what we know, the significance of paradigms and media, and the importance of perspective and situation in shaping what we define as knowledge. Prerequisite: ENG 2001 or its equivalent. (WRITING; MULTICULTURAL; CROSS-DISCIPLINARY)

IDS 3010. H2O: We are Water (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Global Resources")

Water is studied in disciplines ranging from art to zoology. The hydrologic cycle functions on a global scale but has local impacts. This interdisciplinary course will look at water policy and how we manage water resources; who gets water, for what purpose; and the impacts of these decisions on the resource. It will discuss the ways we use water, abuse it, revere it, ignore it, and fight over it. In the US, our quality of life is entirely dependent on cheap, plentiful, clean water. We use it in vast quantities to produce power,

grow food, and protect our health. Globally, demands for water continue to increase. The class will cover the intersections among our scientific understanding of water flows, our technological developments, and our policy approaches toward this elemental resource, locally and globally.

IDS 3150. Interdisciplinary Praxis (3).F;S.

This course provides an overview of interdisciplinary praxis by means of selected readings in theories and philosophies of interdisciplinarity and in interdisciplinary practices. It moves from broad investigations to students' application of them to both their concentrations and the portfolio each IDS major must complete for graduation. The course will introduce the concepts and requirements for the portfolio and assist students in preparing a plan to satisfy the portfolio requirement. (WRITING; CROSS-DISCIPLINARY)

IDS 3210. Exploring the Documentary Form (3).F.

GEN ED: Aesthetic Perspective (Theme: "How We Tell Stories")

The course offers students a chance to learn the fundamentals of non-fiction story telling. Students will research a topic, and then develop a video, audio, or photographic documentary that uses their research to tell a compelling story. During this course, students will learn a range of techniques that bridge academic disciplines: how to use both primary and secondary sources for research, writing skills to structure their documentaries, visual communication techniques to translate their writing into images, and editing skills to clearly communicate their story.

IDS 3250. Internet Studies (3).F;S.

This seminar explores the emerging interdisciplinary field of Internet Studies. Topics covered may include the digital divide, virtual communities, race and gender in cyberspace, and topics in cyberculture. These and other issues may be explored for their social, political, psychological, economic, cultural, ethical, and artistic implications. This seminar will also help students develop their critical reading and writing skills in connection with the World Wide Web, explore Internet research methodologies, and introduce students to some of the technical and editorial issues involved in Web page design and publication. This course is required for the concentration in Internet Studies under the B.A. degree in Interdisciplinary Studies; and it is also a required course for the undergraduate minor in Internet Studies. There are no prerequisites. (WRITING; CROSS-DISCIPLINARY; COMPUTER)

IDS 3260. Creativity: An Introduction (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Mind")

An interdisciplinary and cross-cultural investigation of creativity as an individual, social, cultural, and natural phenomenon. Although often associated with artistry, creativity contributes to the development of all academic and professional disciplines and is an important component in non-academic culture and in individual life. The concept of creativity has deep roots in Western culture (going back at least to Augustine), and the cross-disciplinary study of creativity has burgeoned in the United States since WWII. The class will explore: the history of the concept of creativity; creativity and self-fulfillment; psychological, anthropological, and sociological theories of creativity; practices claiming to enhance creativity; and case studies of creative individuals and creative breakthroughs.

IDS 3261. Sustainability, Religion, Spirituality (3).S.

GEN ED: Historical and Social Perspective (Theme: "Religion, Myth, and Society")

Debate has raged among scholars, activists, and members of religious communities about the role(s) of religion and of specific religions in fostering unsustainability and in achieving sustainability. As part of this debate, some have proposed the existence and importance of a spirituality unconnected with historical or new religions as a key component of moving toward sustainability. This course provides an interdisciplinary introduction to these questions both in their historical and contemporary forms.

IDS 3300. Seminar I (3).F;S.

This course is designed as an intensive investigation of a question, theme, problem, theory, process, or analytic framework, the study of which requires interdisciplinary, transdisciplinary, and/or multi-disciplinary approaches to understanding. Method and other techniques of knowledge production will be explicitly addressed and applied in the context of the course topic. The topic of this course will vary, and barring duplication of subject matter, a student may repeat the course for credit. Prerequisites (required for IDS majors only): IDS 3000 (Histories of Knowledges) and IDS 3150 (Interdisciplinary Praxis). (SPEAKING; CROSS-DISCIPLINARY)

IDS 3500. Independent Study (1–4).F;S.

IDS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

IDS 3530–3549. Selected Topics (1–4).F;S. On Demand.

IDS 3650. Marx's Capital (3).F;S.

This course provides an introduction to Karl Marx as well as an in-depth study of his major theoretical work, *Capital*, Volume I. The transdisciplinary uses of Marxian theory in illuminating a wide variety of issues across disciplinary boundaries will be explored. Students will be asked to make connections between Marx's writings and their own areas of study. (WRITING; CROSS-DISCIPLINARY)

IDS 3700. Seminar II (3).F;S.

This course is designed as an intensive investigation of a question, theme, problem, theory, process, or analytic framework, the study of which requires interdisciplinary, transdisciplinary, and/or multi-disciplinary approaches to understanding. One or more transdisciplinarity will be explicitly defined and applied in the context of the course topic. The topic of this course will vary, and barring duplication of subject matter, a student may repeat the course for credit. Prerequisites (required for IDS majors only): IDS 3000 (Histories of Knowledges) and IDS 3150 (Interdisciplinary Praxis). (WRITING; CROSS-DISCIPLINARY)

IDS 3900. Internship (3-12).F;S.

Supervised work in an appropriate field experience. Student must get approval from the advisor of the B.A. in interdisciplinary studies program prior to enrolling. Graded on an S/U basis.

IDS 4200. Interdisciplinary Thinkers and Thinking (3). On Demand.

This course will critically explore one or more of the following: (1) the interdisciplinary aspects of such thinkers as Aristotle, Marx, William Irwin Thompson, Gregory Bateson or Gerda Lerner; (2) integrative systems such as general systems theory, social ecology or comparative civilizations; or, (3) contemporary theoretical issues such as the relation between literary post-modernism and constructive post-modernism. The goal will be to illustrate the methods and contributions of interdisciplinarity. (WRITING; CROSS-DISCIPLINARY)

IDS 4510. Senior Honors Thesis/Project (1-3).F;S.

Independent study and research. Honors thesis directed by a member of the Interdisciplinary Studies Program faculty and graded by a committee appropriate for the topic. Oral presentation. Corequisite: IDS 4550. (WRITING)

IDS 4530–4549. Selected Topics (1–4).F;S. On Demand.

IDS 4550. Senior Seminar (3).F;S.

GEN ED: Capstone Experience

In this class, students will have the opportunity to draw together the diverse strands of their interdisciplinary studies, reflect on the connections among these strands, and produce an in-depth senior project focusing on their concentration within the major. Students will have the opportunity to reflect on methodology - how one brings together data, methods and practices from diverse disciplines, both academic and non-academic. Students will be asked to present and discuss aspects of projects in class and present their final projects in a public forum to students and faculty. The final portfolio is to be turned in to the student's Senior Seminar professor before the end of the student's last semester. Prerequisites: senior standing and IDS 3000 and IDS 3150. Corequisite or prerequisite: IDS 3300 or IDS 3700, or consent of the instructor. (WRITING; SPEAKING; CROSS-DISCIPLINARY; COMPUTER)

Goodnight Family Sustainable Development Program (SD)

Sandra B. Lubarsky, Director

Sustainable Development Faculty:

Christoffel den Biggelaar

Laura E. England

Anne C. Fanatico

Kathryn J. Kirkpatrick

Brooke Amy Kornegay

Charles L. Smith

Jennifer H. Westerman

Cynthia A. Wood

The Bachelor of Arts and the Bachelor of Science degrees in Sustainable Development emerge from the United Nations' mandate to engender "development that meets the needs of the present without compromising the ability of future generations to meet their own needs." In practice, sustainable development prepares students to engage in the social, economic, and environmental transformations necessary to create thriving, equitable, and sustainable communities within an ecologically healthy world. The required core is designed to familiarize students with principles and practices of sustainability found in the natural sciences, social sciences, and humanities. The degree aims to prepare students to think critically and constructively about the practices of sustainable development and to have the knowledge and skills necessary to build a sustainable future. The study of sustainable development provides a strong preparation in sustainability for those who wish to pursue graduate work or wish to address sustainability in public, private, and non-profit sectors.

The Goodnight Family Sustainable Development program offers the following degree options:

- Bachelor of Arts degree in Sustainable Development (603A/03.0103)
- Bachelor of Science degree in Sustainable Development (604*/03.0103) with concentrations in: 1) Agroecology and Sustainable Agriculture (604B), 2) Community, Regional, and Global Development (604C), and 3) Environmental Studies (604D)
- Undergraduate minor in Sustainable Development (294/03.0103)

For additional information, visit the web site at www.susdev.appstate.edu.

The Bachelor of Arts degree in Sustainable Development (603A/03.0103)

The general features of the Bachelor of Arts degree in Sustainable Development are: (1) a series of core courses that give all sustainable development majors a firm grounding in sustainable development theory, perspectives and methods, and links them with the student's study in their career-oriented area; and (2) a cohesive group of courses focusing on one career-oriented area. Students enrolling in the Bachelor of Arts degree in Sustainable Development must design a coherent selection of career-oriented electives.

The program of study is available at: www.programsofstudy.appstate.edu/sustainable-development-ba-603a-2012-2013

The Bachelor of Science degree in Sustainable Development (604*/03.0103) with concentrations in Agroecology and Sustainable Agriculture (604B); Community, Regional, and Global Development (604C); and Environmental Studies (604D) requires a minimum of 122 semester hours for the degree. In addition to the general education, the major, and the concentration requirements, electives must be taken to meet the total required minimum hours. The general features of the Bachelor of Science degree in Sustainable Development are: (1) a series of core courses that give all sustainable development majors a firm grounding in sustainable development perspectives, methods, and scientific understanding and link them with the student's study in their concentration; and (2) a set of three concentrations.

Agroecology and Sustainable Agriculture Concentration (604B)

The program of study is available at: www.programsofstudy.appstate.edu/sustainable-development-bs-agroecology-and-sustainable-agriculture-604b-2012-2013

Community, Regional, and Global Development Concentration (604C)

The program of study is available at: www.programsofstudy.appstate.edu/sustainable-development-bs-community-regional-and-global-development-604c-2012-2013

Environmental Studies Concentration (604D)

The program of study is available at: www.programsofstudy.appstate.edu/sustainable-development-bs-environmental-studies-604d-2012-2013

Minor in Sustainable Development (294/03.0103)

The program of study is available at: www.programsofstudy.appstate.edu/sustainable-development-minor-294-2012-2013

Courses of Instruction in Sustainable Development (SD)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SUSTAINABLE DEVELOPMENT (SD)

SD 2400. Principles of Sustainable Development (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Sustainability and Global Change")

This course is the foundation course for students interested in pursuing a major or a minor in Sustainable Development. The course will introduce students to the concepts and history of "development," the origins of concerns about "sustainability," and the marriage of these two ideas in the contested notion of "sustainable development (SD)." From that basis, the course will then examine the understanding and use of SD principles in and from various disciplinary and multi/interdisciplinary perspectives. (CROSS-DISCIPLINARY)

SD 2500. Independent Study (1-4).F;S.

SD 2530-2549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the sustainable development curriculum. May be repeated for credit when content does not duplicate.

SD 2600. Science for Sustainability (4).F;S.

This course is an introduction to the study of the natural sciences as they can be applied to the concepts of sustainability. The basic principles of science studied include: energy; matter; ecology; population growth; carrying capacity; decreasing biodiversity; resource depletion; climate change; and chemical pollution of air, water, and soils. Lecture three hours, laboratory three hours. (WRITING; SPEAKING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

SD 2800. Environmental Justice and Sustainability (3).F.

This course is a study of relationships between the environmental justice movement and sustainable development. Working at the intersection of these fields, students will gain an understanding of an egalitarian conception of sustainable development known as "Just Sustainability." Students will examine the history of the "Just Sustainability" paradigm; critically analyze questions of race, class, gender, place, and labor as they relate to "Just Sustainability" and the stakeholder theory; and read, evaluate and create case studies.

SD 3100. Principles of Agroecology (4).F;S.

This course will focus attention on agricultural systems from an ecological perspective and how such systems can contribute to a more sustainable society. Topics covered in the class will include basic ecological concepts (i.e., the biological, chemical, and physical factors and their interactions) and their application to agricultural systems, production and consumption aspects of food systems, and will address ways to facilitate the promotion of sustainable agriculture. The lab, required to be taken in conjunction with this course, provides an opportunity to practice the agroecological principles discussed in the lectures in hands-on activities. Lab activities include (but are not limited to) growing fruits and vegetables, keeping farm records, and gathering biophysical and ecological data necessary to start and run a garden based on sustainable principles. Working both individually and in small groups, students will study various gardening as well as gathering techniques and methods. Field trips to area farms may be included as part of the lab. Lecture three hours, laboratory two hours.

SD 3150. Soil and Soil Fertility Management (4).F.

In sustainable agriculture, soil health and quality are recognized as key to producing bountiful and nutritious food. A thorough understanding of the nature, properties, and ecology of soil are therefore necessary to the design and management of agroecosystems in which the long-term fertility and productive capacity of the soil is maintained, or even improved. This understanding begins with knowledge of how soil is formed and includes integration of all biological, chemical and physical factors, as well as components that determine soil quality and contribute to the structure and function of the entire soil ecosystem. From this foundation, students will then study how to assess soil quality and how to develop appropriate soil and soil fertility management plans using organic production methods. Lecture three hours, laboratory two hours.

SD 3170. Permaculture Design (3).On Demand.

Permaculture is a design science using ethical and biophysical principles combined with scientific methods of observation of nature to create systems that sustainably meet human needs while supporting relevant social, ecological, and economic infrastructures. In this course, students will explore permaculture philosophy and its relevance to the modern world system, while providing students with practical skills and tools to assess specific sites and create holistic designs suited to the objectives and needs of stakeholders. Prerequisite: SD 3100 or permission of the instructor. Lecture two hours, laboratory three hours.

SD 3200. Agroforestry and Farm Forestry Systems (4).On Demand.

Agroforestry has been defined by the World Agroforestry Center (2000) as “a dynamic, ecologically based management practice that integrates trees and other tall woody plants in the agricultural landscape to diversify production for increased social, economic and environmental benefits.” This course will focus on how the principles, complexity and diversity of agroforestry systems enhance land productivity and sustainability. The social and economic benefits of such systems for farmers, communities and society will also be discussed. Emphasis will be on temperate zone agroforestry systems, in particular those suitable for, or having potential for, northwest North Carolina. As these systems are much more extensive in (sub)tropical areas, agroforestry systems in those areas will also be briefly reviewed. The main emphasis of the course will be plant (crop) and soil aspects and component interactions, both above and below ground and from spatial and temporal perspectives. Lecture three hours, laboratory two hours.

SD 3250. Livestock Production and Management (4).F.

This course is a survey of the livestock industry, the supply of animal products, and their uses. A special emphasis is placed on the origin, characteristics, adaptation and contributions of farm animals to sustainable agriculture, managing productivity, and minimizing ecological impact of agricultural systems. Prerequisite or corequisite: SD 3100. Lecture three hours, laboratory two hours.

SD 3300. Farm Business Management (3).S.

This course introduces students to the principles and tools of managerial analysis and decision-making for the profitable operations of farms and farm-related businesses. Emphasis is given to planning, implementing, directing, organizing and controlling a farm business. Topics include financial statements; business analysis; budgeting; acquisition; organization and management of capital, labor, land, buildings and machinery; investment analysis of business-related improvements; and tax implications for management. Through case studies and real-world examples, students will learn to apply micro-economic and agricultural production theories, optimize allocation of resources and products, analyze resource shifts in agricultural production, as well as understand pricing and marketing issues of farm products. Economic concepts useful for management decisions will be reviewed and applied.

SD 3350. Contemporary Issues in Agriculture and Food (3).On Demand.

This course will analyze, reflect on, and evaluate current agricultural issues. Examples of probable issues include the industrialization of the agriculture/food system, water rights, sustainable/local/organic agriculture, world hunger and food aid, saving the family farm, food safety, foreign agricultural assistance, the future of farming and food systems, genetic engineering, and others. Alternative perspectives on the issues and policy implications will be discussed. Barring duplication of content, a student may repeat the course for a total of six credit hours.

SD 3375. Sustainability, Economics, and Development (3).F.

This course will provide students with the theoretical and practical tools needed to explore economic issues from the perspective of sustainable development. The course introduces basic concepts underlying various approaches to economic analysis; applies these concepts critically to current issues such as globalization, poverty, and environmental degradation; and explores alternatives through the critical analysis of their sustainability.

SD 3400. Development and Underdevelopment (3).S.

This course provides an overview of major contemporary perspectives on development and underdevelopment, examined through the critical lens of sustainability. Applications to particular topics and alternative models are considered in terms of their effects on people and environment. Prerequisite: junior standing or permission of the instructor.

SD 3450. Farmworkers (3).On Demand.

An interdisciplinary survey of the forces shaping contemporary farmwork and the lives of farmworkers in the United States, with particular attention to North Carolina. Topics include demographics, historical context, labor markets, agricultural structure and agribusiness, the global economy, immigration, health and occupational safety, legal issues, education, working conditions, and community and labor organizing.

SD 3500. Independent Study (1-4).F;S.

SD 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

SD 3530-3549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the sustainable development curriculum. May be repeated for credit when content does not duplicate.

SD 3600. Environmental Humanities (3).On Demand.

Humanity's relationship to the natural world is embedded in our cultures and manifested in such cultural constructions as philosophy, religion, aesthetics, literature, and the humanities in general. This course introduces students to a humanities-based study of nature and culture.

SD 3750. Nature, Technology, and Environment (3).F.

This course is a targeted, in-depth, and critical analysis of technology as social production and construction with specific attention to its influence on sustainable development. This course explores the social relationships embodied in technological systems, the inter-relationships between technology and sustainable development, and relevant historical and contemporary examples. Prerequisite: TEC 2029.

SD 3800. Classics in Sustainable Development (3).F.

GEN ED: Junior Writing in the Discipline (WID)

An exploration of landmark texts in the field of sustainable development; whole books will be examined in their biographical, socio-historical, and critical contexts in order to deepen knowledge of significant voices in the discourse of sustainability. Prerequisites: ENG 2001 or its equivalent, and junior standing or permission of the instructor. (WRITING; SPEAKING)

SD 3900. Practicum in Sustainable Agriculture (3).SS.

This is a hands-on course focusing on the practice of sustainable agriculture. Students will engage agricultural systems from an ecological perspective, explore the biodiverse system of a natural working farm, and understand how such systems contribute to a more sustainable society. We will explore basic ecological concepts (i.e., biological, chemical, and physical factors and their interactions with plants and animals) and their application to agricultural systems, as well as the production and consumption aspects of food systems. Specific topics covered during group meeting sessions will include organic soil health, organic fertilization methods, animal husbandry, pest and disease management, methods to increase biodiversity in the agroecosystem, season extension, cover cropping, composting methods, and agroforestry, as well as marketing and community involvement. Independent work time at the Sustainable Development Teaching and Research Farm is integral to this course. Prerequisite: SD 3100.

SD 4100. Agroecology Practices, Systems, and Philosophies (4).S.

This course will provide an in-depth exploration of (1) the ethical and philosophical roots of conventional and alternative agriculture; and (2) the biological, economic and social aspects of different agricultural systems and practices developed in response to perceived shortcomings of conventional modern agriculture. Alternative practices and systems to be compared and contrasted in this course include nature farming, permaculture, biodynamic agriculture, biointensive gardening, and agroforestry (additional systems and practices may be added or substituted based on class interest and consensus). In laboratories, students will have the opportunity to (1) learn about and gather basic data on the biophysical, ecological and social aspects of the Sustainable Development Teaching and Research Farm that are necessary to start and operate a garden based on sustainable principles; (2) combine theory and practice of vegetable, fruit and/or small animal production using a 'learning-by-doing' approach; and (3) provide leadership to work teams of students on the farm. Lecture three hours, laboratory three hours. Prerequisite: SD 3100 or permission of the instructor. [Dual-listed with SD 5100.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SD 4200. Ecologically-Based Pest Management (4).SS.

Applied principles of ecologically-based Integrated Pest Management in agricultural, landscape and other environments. Cultural, biological, mechanical/physical, preventive, and organically approved chemical control methods will be featured, with an emphasis on practical ecosystem-based strategies that feature biologically-based controls as the cornerstone of ecological pest management. Prerequisite: SD 3100. Lecture three hours, laboratory two hours.

SD 4401. Applications in Sustainable Development (3).On Demand.

An intensive study of special problems, topics, or issues related to the implementation of sustainable development, with emphasis on the evaluation of real-world case studies. The subject matter of this course will vary and barring duplication of subject matter, a student may repeat the course for credit.

SD 4510. Thesis/Project (3).On Demand.

In this course, students will be required to complete a thesis/project that makes use of and integrates the material from the sustainable development core in relation to a significant issue in sustainable development. Students may either write a thesis or conduct a final project, which will be supervised by a member of the sustainable development faculty and read by another Appalachian State University faculty member in a field appropriate to the topic selected by the student. Prerequisite: student must get approval from an advisor of the Sustainable Development program prior to enrolling.

SD 4530-4549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the sustainable development curriculum. May be repeated for credit when content does not duplicate.

SD 4550. Senior Seminar (3).F;S.

GEN ED: Capstone Experience

Review, synthesis, reflection, and elaboration on aspects of sustainable development. Designed as a final on-campus opportunity for students to synthesize and integrate the theories and practices that inform sustainable development, to test their ideas in conversation, to connect their individual work with the work and ideas of others, and to examine career opportunities related to sustainability. Variable content. Ideally should be taken during the final semester of on-campus study. Required for majors. Prerequisite: Sustainable Development major with senior standing or permission of the instructor.

SD 4900. Internship/Practicum (1-9).F;S.

Supervised work in an appropriate field experience. A critical means to apply theoretical constructs, methods and techniques learned in the classroom to real-world settings. The practicum offers ways of acquiring practical work experience and it provides opportunities to engage in community organizations, non-governmental and governmental organizations, and businesses that seek to advance sustainability in specific ways. The internship/practicum may occur at the local, regional, state, national or international levels. The practicum is an important part of the program's commitment to sustainable development in the wider world. Prerequisite: student must get approval from an advisor of the Sustainable Development program prior to enrolling. Graded on an S/U basis.

SD 4910. Advanced Internship in Agroecology (3).On Demand.

An internship in a commercial setting, research laboratory, or research facility; or in a federal, state, or local government or non-government agency. Students will be expected to complete a significant project developed in conjunction with the cooperating outside facility or agency, will keep a daily journal of their internship experience, and will report the results of their internship in a public seminar as well as a written report. Prerequisites: SD 3900 and approval of the Sustainable Development advisor. Graded on an S/U basis.

Women's Studies Program (WS)

Donna L. Lillian, Director

Women's Studies Faculty:

Kathleen A. Adams, English

Shawn D. Arthur, Philosophy and Religion

Mary Ballard, Psychology

Patricia D. Beaver, Appalachian Studies/Anthropology

Edward Behrend-Martinez, History

Elizabeth Carroll, English

Sushmita Chatterjee, Women's Studies/GJS

Cheryl Claassen, Anthropology

Kelly Clark-Keefe, Leadership and Educational Studies

Jennifer Cohen-Jordan, Women's Studies

CeCe Conway, English

Victoria Cox, Languages, Literatures, and Cultures

Jeanne A. Dubino, University College/Global Studies

Jill Ehnenn, English

Lynne M. Getz, History

Sandie Gravett, Philosophy and Religion

Sarah J. Greenwald, Mathematical Sciences

Kristina Groover, English

Victoria Grube, Art

Alison Gulley, English

Kim Gunter, English

Calvin L. Hall, Communication

Kim Q. Hall, Philosophy and Religion

Rosemary Horowitz, English

Amy C. Hudnall, History

Eva M. Hyatt, Marketing

Alecia Youngblood Jackson, Leadership and Educational Studies

Kathryn Kirkpatrick, English/Sustainable Development

Michael Lane, Languages, Literatures, and Cultures

Monique Lanoix, Philosophy and Religion

Beth A. Latshaw, Sociology

Cameron Lippard, Sociology

Nancy Love, Government and Justice Studies

Denise Martz, Psychology

Martha McCaughey, Sociology

Lucinda McCray, History

Layne McDaniel, History

Grace McEntee, English

Margaret McFadden, Women's Studies (Emerita)

Maria Patricia Napiorski, Languages, Literatures, and Cultures

Elaine O'Quinn, English

David Orvis, English

Linda C. Pacifici, Curriculum and Instruction

Amy D. Page, Sociology

Sheila Phipps, History

Jammie L. Price, Sociology

Georgia Rhoades, English

Janice G. Rienerth, Sociology

Curtis Ryan, Government and Justice Studies

Renee G. Scherlen, Government and Justice Studies

Lynn Searfoss, English

Katrina Seitz, Sociology

Reeves Shulstad, Music

Marilyn Smith, Art

Neva Jean Specht, History

Derek Stanovsky, Interdisciplinary Studies

Susan C. Staub, English

Alexandra Sterling-Hellenbrand, LLC/Global Studies

Gayle Turner, Leadership and Educational Studies

Tammy Wahpeconiah, English

Anna G. Ward, Theatre and Dance

Jason D. Watson, Art

Jennifer Wilson, English

Michael T. Wilson, English

Cynthia A. Wood, Sustainable Development

Women's Studies is an academic program generating, supporting, and sharing research on women and gender. The program provides academic leadership to the campus and community for the study of a diversity of women, women's and gender issues, and theories addressing gender and inequality. This leadership finds expression both in the classroom and in a variety of other venues. In order to accomplish this mission, the program offers:

- an approach to traditional academic disciplines highlighting the study and contributions of women;
- an interdisciplinary model of scholarship constructed around women's and gender issues as well as gender/feminist/womanist theories; and
- an open atmosphere for the exchange of ideas and expressions of concern over a wide range of women's and gender issues on our campus and in our society.

By means of interdisciplinary and cross-cultural analyses, the Bachelor of Arts degree in Women's Studies includes women previously omitted from traditional university curricula. In so doing, it broadens student knowledge about women in history, society, literature, culture, and the academy itself. Women's studies employs historic and contemporary materials, and a variety of methodologies, both theoretical and practical.

The Women's Studies program (www.ws.appstate.edu) offers the following:

Bachelor of Arts degree in Women's Studies (602A/05.0207)

Undergraduate minor in Girls' Studies (607/05.0207)

Undergraduate minor in LGBT Studies (606/05.0208)

Undergraduate minor in Women's Studies (175/05.0207)

Graduate certificate in Women's Studies (130A/05.0207)

The Bachelor of Arts degree in Women's Studies (602A/05.0207)

The Bachelor of Arts degree in Women's Studies, by means of interdisciplinary and cross-cultural analyses, includes women previously omitted from traditional university curricula. In doing so, it broadens student knowledge about women in history, society, literature, culture, and the academy itself. Women's studies employs historic and contemporary materials, and a variety of methodologies, both theoretical and practical.

The program of study is available at: www.programsofstudy.appstate.edu/womens-studies-ba-602a-2012-2013

Minor in Girls' Studies (607/05.0207)

A student may earn an undergraduate minor in Girls' Studies by successful completion of an interdisciplinary program of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/girls-studies-minor-607-2012-2013

Minor in LGBT Studies (606/05.0208)

A student may earn an undergraduate minor in LGBT Studies (Lesbian, Gay, Bisexual and Transgender Studies) by successful completion of an interdisciplinary program of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/lgbt-studies-minor-606-2012-2013

Minor in Women's Studies (175/05.0207)

A student may earn an undergraduate minor in Women's Studies by successful completion of an interdisciplinary program of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/womens-studies-minor-175-2012-2013

Graduate Certificate in Women's Studies (130A/05.0207)

For information regarding the graduate certificate program in Women's Studies, contact the WS Program Director at (828) 262-7603, visit the web site at www.ws.appstate.edu or consult the *Graduate Bulletin*.

Courses of Instruction in Women's Studies (WS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

WOMEN'S STUDIES (WS)

WS 2400. Distinguished Lectures on Women, Sex, and Gender (3).F.

GEN ED: Historical and Social Perspective (Theme: "Individual and Society")

This course introduces students to a variety of topics and methods of investigation in the study of women's and gender issues. Featuring a variety of lectures from multiple disciplines, this course stresses the importance of taking women and gender seriously for understanding a variety of topics. Students will also interpret and analyze the lectures through regular meetings with an instructor, who also designs assignments and readings around each lecture topic. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

WS 2421. Sex, Gender, and Power: Introduction to Women's Studies (3).S.

GEN ED: Historical and Social Perspective (Theme: "Cultural Diversity")

This course will provide an introduction to the study of gender and a diversity of women, both historic and contemporary, using a variety of methodologies and materials drawn from both the social sciences and the humanities. It will also serve as an introduction to the interdisciplinary discipline of Women's Studies for the major and the minor in Women's Studies. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES AND SOCIAL SCIENCES)

WS 2530-2549. Selected Topics (1-4).On Demand.

WS 2600. Introduction to LGBT Studies (3).F.

GEN ED: Local to Global Perspective (Theme: "Democracy and Personal Life")

This course will provide a multi-disciplinary introduction to the study of historical, cultural, political and theoretical issues relevant to lesbian, gay, bisexual, and transgender individuals and communities and their allies.

WS 3100. Girls Coming of Age (3).S.

Covering recent scholarship on girls in the context of the conceptual and theoretical frameworks developed in the field of women's studies, this course highlights the gendered character of the concerns of childhood, child development, and adolescence. In order to understand the cultural forces shaping the lives of girls, the course investigates both the scholarly literature on girls and girls'

literature and culture, situating girls in terms of class, gender, race, ethnicity, and sexuality. Students will come to understand the values, structures, and trajectories that have come to define girlhood, girls's identities, and girls' practices.

WS 3200. Global Women's Issues (3).On Demand.

This course explores the diversity of women's experiences emerging from postcolonial or "third world" contexts, with particular attention to the challenges that considerations of differences as well as transnational connections pose for feminist thought and practice. Questions of representation, agency, and border crossings are grounded in local histories and the ambiguous implications of a globalization and "development" in out-of-the-way places. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

WS 3300. Gender and Technology (3).On Demand.

This course is a social study of the mutual shaping of gender and technology. Beginning with the assumption that technologies are not gender neutral in their design or effects, the course examines both gender and technology as cultural and political categories. Students study how technologies help to form and distinguish the realm of the masculine and the feminine, as well as how ideas about gender help form our views of technology. Students will also examine the impact of new technologies, such as new information and communication technologies, on contemporary gender relations. (MULTI-CULTURAL; CROSS-DISCIPLINARY; COMPUTER)

WS 3400. Women, Food, and Nature (3).On Demand.

This course brings food studies and environmental studies together to examine gender and sustainability. The course thus considers women as the majority of the world's agricultural workers, and further considers gender in issues of the production, consumption, processing, and organization of food. Contemporary issues such as famine, genetically-modified foods, and the "slow food" movement are discussed. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

WS 3500. Independent Study (1-4).F;S.

WS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

WS 3530-3549. Selected Topics (1-4).F;S.On Demand.

WS 3600. LGBT Studies Seminar (3).S.Alternate years.

Variable content. An intensive study of special problems, topics, or issues related to lesbian, gay, bisexual and/or transgender studies. Barring duplication of content, a student may repeat the course for a total credit of six semester hours.

WS 3900. Internship in Women's Studies (1-6).On Demand.

Supervised work in an appropriate field experience. Participating community partners are listed on the Women's Studies web site at www.ws.appstate.edu. Prerequisite: student must get approval from the Director of the Women's Studies Program prior to enrolling. Graded on an S/U basis.

WS 4550. Senior Seminar (3).S.

GEN ED: Capstone Experience

This course gives students the opportunity to draw together the diverse strands of their women's studies education, reflect on the connections among these strands, and produce an in-depth senior project. Students will reflect on methodologies and theories used in women's studies academic research. Students will be asked not only to write but to present aspects of their project. Prerequisite: senior standing. (WRITING; SPEAKING; CROSS-DISCIPLINARY)

WS 4600. Queer Theory (3).S.Alternate years.

An advanced study of ideas and figures central to queer theory. Questions explored include the norms and assumptions that structure our understanding of identity and its complex relationship to sexuality, sex and gender. Figures discussed include Foucault, Sedgwick and Butler. This course also investigates queer theory's critique of both hetero-and homo-normativity.

WS 4650. Feminist Theories (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

This course surveys a wide range of contemporary theories of gender inequality. Students will become familiar with these theories and learn to recognize the intellectual roots and theoretical assumptions of various arguments about sex and gender. Students will also examine the complexity of identity and politics in a social context characterized by inequalities of opportunity, privilege, and authority and by rapid change, global media, and advancing technology. Important for the assessment of various theories will be the proposition that any man or woman is positioned within other hierarchies of dominations (for example: those of race, class, nationality, physical ability, and sexuality) in addition to gender. Prerequisites: ANT 2420 or SOC 2850 or WS 2400 or WS 2421 or permission of the instructor; and ENG 2001 or its equivalent. (WRITING; SPEAKING; MULTI-CULTURAL; CROSS-DISCIPLINARY)

The College of Arts and Sciences

The College of Arts and Sciences

Anthony G. Calamai, Dean

Dru A. Henson, Associate Dean

Neva J. Specht, Associate Dean

The College of Arts and Sciences connects Appalachian State University to the tradition of the liberal arts. Faculty and staff in fifteen academic departments spanning the Humanities, Mathematical, Natural and Social Sciences provide instruction and research essential to the University's mission. The breadth and depth of learning provided by the College are necessary for productive citizenship in a free society.

The College of Arts and Sciences serves all undergraduate students through general education courses; it also offers disciplinary and interdisciplinary programs at the undergraduate and graduate levels, combining liberal arts and professional education, with a special commitment to teacher education. Through innovative instruction, creative and collaborative scholarship, and engagement in professional activities, the faculty and staff foster the development of knowledge and skills essential to continued learning, success in careers and the attainment of advanced degrees.

The College encourages study in diverse local, regional, national, and international communities and seeks to cultivate the habits of inquiry, learning, and service among all of its constituents.

Departments

The College of Arts and Sciences consists of the following academic units:

Anthropology	Fermentation Sciences Program	Mathematical Sciences
Biology	Geography and Planning	Philosophy and Religion
Chemistry	Geology	Physics and Astronomy
Computer Science	Government and Justice Studies	Psychology
English	History	Sociology
Environmental Science Program	Languages, Literatures, and Cultures	

In cooperation with the Department of Economics, the College of Arts and Sciences offers the Bachelor of Arts degree in Economics; the Economics Department is administratively housed within the Walker College of Business.

NOTE: *Although the requirements for most degree programs at Appalachian can be met within the minimum of 122 semester hours, the student should be aware that certain programs of study require additional hours. Students are advised to check with the department of their intended major early in their studies. Meeting graduation requirements is the student's responsibility.*

Degrees Offered

The College of Arts and Sciences offers the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Criminal Justice degrees. In cooperation with the Reich College of Education, it offers the Bachelor of Science degree with teacher licensure in English, French, History, Mathematics, Spanish, Biology, Chemistry, Geology, and Physics (leading to science education licensure).

To be admitted to the College of Arts and Sciences, a student must meet the following requirements to officially declare a major:

1. Completion of at least 30 semester hours
2. A grade-point average of at least 2.0
3. Credit for ENG 1000 or an equivalent course and credit for or current enrollment in UCO 1200 or an equivalent course

A student who is a candidate for teacher licensure must meet the specified requirements for admission to the Reich College of Education.

Bachelor of Arts Degree

To earn the Bachelor of Arts degree in the College of Arts and Sciences, a student must meet the following requirements:

1. Completion of at least 122 semester hours (128 for biology) with a minimum cumulative grade-point average of 2.0 and a minimum major grade-point average of 2.0
2. Completion of general education requirements
3. Completion of six semester hours of intermediate or higher level foreign language

CONTINUED

The College of Arts and Sciences

4. Completion of major requirements from one of the program areas listed below:

Anthropology	French & Francophone Studies	Philosophy	Sociology
Biology	Geography	Physics	Spanish
Chemistry	Geology	Political Science	
Economics	History	Psychology	
English	Mathematics	Religious Studies	

Specific requirements for each department major preface the list of courses offered by the department. A candidate for the Bachelor of Arts degree may count no more than a total of 46 semester hours above general education requirements in any one discipline.

5. Completion of a minor. Students seeking a minor in the Departments of Leadership and Educational Studies; or Reading Education and Special Education must receive prior permission from the Dean of the College of Arts and Sciences.
6. Electives to complete 122 semester hours (128 for biology). A minimum of two semester hours of electives must be outside the major discipline.
7. Completion of residency requirements
8. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Students pursuing the B.A. degree are advised to refer to the section in this Undergraduate Bulletin entitled "Credit Limitations" which apply to that particular degree.

A candidate for the Bachelor of Arts degree may qualify for a teaching license by admission to professional education courses through the chair of the Department of Curriculum and Instruction and by completing all academic and professional education requirements for licensure.

Bachelor of Science Degree (without teacher licensure)

To earn the Bachelor of Science degree in the College of Arts and Sciences, a student must meet the following requirements:

1. Completion of at least 122 semester hours (128 for biology) with a minimum cumulative grade-point average of 2.0 and a minimum major grade-point average of 2.0
2. Completion of the general education requirements.
3. Completion of major requirements from one of the program areas listed below:

Anthropology	Fermentation Sciences	Political Science
Biology	Geography	Psychology
Chemistry	Geology	Sociology
Community & Regional Planning	History	
Computer Science	Mathematical Sciences	
Environmental Science	Physics	

Specific requirements for each department major preface the list of courses offered by the department.

4. Electives to complete 122 semester hours (128 for biology). A minimum of two semester hours of electives must be outside the major discipline.
5. Completion of residency requirements
6. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Bachelor of Science Degree (with teacher licensure)

To earn the Bachelor of Science degree with teacher licensure in the College of Arts and Sciences, a student must meet the following requirements:

1. Completion of at least 122 semester hours (128 s.h. for biology) with a minimum cumulative grade-point average of 2.5 and a minimum major grade-point average of 2.0
2. Completion of the general education requirements
3. Completion of major requirements from one of the program areas listed below:

Biology	Geology
Chemistry	History
English	Mathematical Sciences
French and Francophone Studies	Physics
	Spanish

4. Admission to the Reich College of Education and completion of all professional education requirements

The College of Arts and Sciences

5. Electives to complete the required number of hours (122-128) for the degree. A minimum of two semester hours of electives must be outside the major discipline.
6. Completion of residency requirements
7. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Bachelor of Science in Criminal Justice Degree

To earn the Bachelor of Science in Criminal Justice (BSCJ) degree (220A/43.0104), the student must meet the following requirements:

1. Completion of at least 122 semester hours with a minimum cumulative grade-point average of 2.0 and a minimum major grade-point average of 2.0
2. Completion of general education requirements
3. Completion of a major consisting of 61 semester hours as specified and STT 1810. See the Department of Government and Justice Studies.
4. Electives to complete 122 semester hours. A minimum of 2 s.h. of electives must be outside the major discipline.
5. Completion of residency requirements
6. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Academic Advising

Academic advising for students in the College of Arts and Sciences is available in each of the departments in the college. Advising is required prior to each registration and encouraged at other times. The Academic Services unit of the Dean's Office (100 I.G. Greer) certifies students for graduation; provides senior academic audits; assists students with special course processing, dropping and adding classes; and responds to general inquiries regarding students' academic programs.

Grade-Point Average Requirements for Graduation

To graduate, a minimum cumulative grade-point average of 2.0 is required (except for teacher licensure programs, which require 2.5). A minimum grade-point average of 2.0 is also required in the major. Included in the calculation of the major grade-point average are all courses taken in the major department, all courses in the approved program of study/contract/concentration, and all cognate courses. A "C" is required in each professional education course; however, the professional education courses are not included in the calculation of the major grade-point average.

Internship Programs

The internships offered in the College of Arts and Sciences provide students with opportunities to learn outside of the regular classroom and to formulate career plans based on their experiences. Student interns earn academic credit toward their degrees. Internships offer realistic on-the-job experience and personal contacts with employers.

Agency or industry personnel, in close cooperation with faculty in the student's major department, provide internship instruction. The student's career interests are considered in arranging internship assignments and placements. In many majors and career-oriented concentrations, an internship is required in the course of study; in others, the internship is available as an elective.

Students seeking further information should contact their major advisor or their departmental chair.

Preprofessional Programs

Appalachian State University provides students with preparation for professional training in other institutions. Some preprofessional programs (law, medicine, dentistry and theology) are four year programs and lead to a Bachelor of Arts or a Bachelor of Science degree from Appalachian; others (engineering, forestry, and pharmacy) are one or two year programs and prepare students for pursuit of a degree to be granted by the professional school. Whatever program students select, they are urged to consult professional school catalogs and to work closely with the appropriate advisors at Appalachian.

Law

Law schools require a bachelor's degree (B.A. or B.S.) but, in most cases, no specific selection of courses. Advisors can help students plan a curriculum most likely to prepare them for the study of law. Usually students do not specialize during a regular law school program, but are expected to establish a solid foundation of legal knowledge upon which they may build a special practice. Academic areas with materials especially relevant to the study of law are business, communication, criminal justice, economics, English, history, philosophy, political science, psychology and sociology. Pre-law students are encouraged to participate in the forensics program as part of their extracurricular activity. Advisor: Dr. Kathy Simon, Department of Government and Justice Studies.

The College of Arts and Sciences

Theology

Most seminaries and schools of divinity require a bachelor's degree, but in many cases they do not require specific course work. The best preparation for theological studies is to acquire a strong liberal arts education taking courses in religious studies and courses related to religious studies, history, and philosophy.

In working with their advisor at Appalachian, students can develop a curriculum suited to the seminary and speciality of their choice. Majors in Religious Studies and Philosophy, that include a program of study that seeks to understand the phenomenon of humanity from as many perspectives as possible, are highly recommended. Pre-theological students should be aware of the increasing variety of theology-related professions available to them.

Contact the Chair of the Department of Philosophy and Religion for further information.

Medicine and Dentistry

All medical and dental schools require at least three years of satisfactory undergraduate work and most give preference to candidates holding a bachelor's degree. The catalog from the school selected should be consulted and an individual program designed with the help of an advisor to prepare the student for both specific admission requirements and the Medical College Admission Test. In general, solid work in the humanities plus a core of courses such as the following are recommended:

BIO 1801, BIO 2001, BIO 2400, BIO 2410, BIO 3301, BIO 3308, BIO 3800
CHE 1101, CHE 1110 and CHE 1102, CHE 1120; CHE 2201, CHE 2203 and CHE 2202, CHE 2204; CHE 4580
MAT 1025, MAT 1110, MAT 1120; STT 2810
PHY 1103-PHY 1104 or PHY 1150-PHY 1151
PSY 1200

Students should begin taking chemistry during the freshman year. Medical and dental schools will look at the overall quality of performance, not just achievement in science. Interested students should contact Ms. Celeste Crowe, Director of the Health Professions Advising Office.

Engineering

The Department of Physics and Astronomy offers two separate pre-engineering programs and advises students interested in engineering. In addition, the Department offers dual-degree programs with Auburn University and Clemson University.

The North Carolina University System Pre-Engineering Program

The North Carolina System Pre-Engineering Program has been approved by the Subcommittee on Engineering Transfer for transfer to the engineering programs at North Carolina A & T State University, North Carolina State University, and the University of North Carolina at Charlotte. Pre-engineering students in this program take the following courses:

MAT 1110, MAT 1120, MAT 2130, MAT 3130
PHY 1150-PHY 1151
CHE 1101, CHE 1110
CS 1440
IND 1001
ENG 1000, ENG 1100

Other recommended courses (certain of these may be required for some engineering disciplines) include:

PHY 2010-PHY 2020
CHE 1102, CHE 1120
ECO 2030
PHL 3600

The Clemson University Pre-Engineering Program

The second pre-engineering program is with Clemson University. Pre-engineering students in this program take the following courses:

MAT 1110, MAT 1120, MAT 2130, MAT 3130
PHY 1150-PHY 1151, PHY 2010
CHE 1101, CHE 1110 and CHE 1102, CHE 1120
ECO 2030
ENG 1000, ENG 1100, ENG 2010, ENG 2020 or ENG 2030, ENG 2040 or ENG 2310, ENG 2320, ENG 3700
HIS 1101 or HIS 1102

Different courses are required depending on the particular engineering discipline. After completing two semesters of courses, students will complete the form "Intention to Transfer to Engineering at Clemson University" and mail it to the College of Engineering, Clemson University. This form is available from the Department of Physics and Astronomy.

The College of Arts and Sciences

Students who plan to enter either pre-engineering program or who desire to develop a pre-engineering program for another university are strongly urged to consult with an advisor in the Department of Physics and Astronomy.

Dual-degree Engineering Programs with Auburn University and Clemson University

Dual-degree programs are now offered in cooperation with Auburn University and Clemson University which permit students to attend Appalachian for three years and either Auburn or Clemson University for approximately two years. After finishing one of the programs, students will receive two degrees.

Study during the first three years includes course work in mathematics and the sciences and also courses chosen to meet Appalachian's general education requirements. These courses plus two semesters of courses taken at Auburn or Clemson will be counted towards fulfilling the requirements for a baccalaureate degree from Appalachian.

Upon completion of this dual-degree program, the graduate is awarded a baccalaureate degree from Appalachian and an engineering bachelor's degree from either Auburn University or Clemson University.

Dual-degree candidates from Appalachian are eligible to seek a bachelor's degree from Auburn University in aerospace engineering, aviation management, chemical engineering, civil engineering, electrical engineering, industrial engineering, materials engineering, mechanical engineering, textile chemistry, textile engineering and textile management.

Dual-degree candidates from Appalachian are eligible to seek a bachelor's degree from Clemson University in ceramic engineering, civil engineering, engineering analysis, electrical engineering, industrial engineering and mechanical engineering.

For additional information, contact Dr. Mike Briley, Department of Physics and Astronomy.

Forest Resources

Students who are interested in forest resources can complete many of the prerequisite courses at Appalachian and then transfer to North Carolina State University or to another university offering the degree. Students should make early contact with schools in which they are interested to obtain the requirements for admission to a specific program or concentration. In general, students might expect to take the following courses (requirements vary depending upon the program):

- ENG 1000, ENG 1100
- MAT 1025, MAT 1110, MAT 1120
- CHE 1101, CHE 1110 and CHE 1102, CHE 1120
- BIO 1801 and/or BIO 2000
- PHY 1103–PHY 1104
- COM 2101
- ECO 1010 or ECO 2040 PE (four hours)
- Humanities and social sciences (12 hours)
- Electives (six hours)

For additional information, contact Dr. Sue Edwards, Department of Biology.

Pharmacy

Students who wish to pursue a career in pharmacy may complete the pre-pharmacy requirements at Appalachian; students may then seek admission to a school of pharmacy (in North Carolina, two schools offer pharmacy degrees: UNC-Chapel Hill and Campbell University). The requirements of the traditional two year pre-pharmacy program will normally include four courses in chemistry (including two semesters of organic chemistry), one or two courses in mathematics including calculus, two courses in biology (with at least one course beyond the introductory level), two courses in physics, and general education courses, including two English courses and a history course. (UNC-Chapel Hill also requires completion of three semesters of college-level foreign language). Each School of Pharmacy has its own specific requirements and a student considering pharmacy must make early contact with the Schools of Pharmacy in which they are interested to obtain current pre-pharmacy requirements for admission into their programs.

The pre-pharmacy advisor maintains information on the requirements for various Schools of Pharmacy in the state and region, and the Pharmacy College Admissions Test (PCAT) scores are requested by most pharmacy schools as part of the admission application. Because of the variety of course requirements, admission procedures and rigorous admission standards, early contact with the pre-pharmacy advisor is strongly recommended. Advisor: Dr. Claudia Cartaya-Marin, Department of Chemistry.

The College of Arts and Sciences

Interdisciplinary Major(s)

Environmental Science Program

Christopher S. Thaxton, Director

The Bachelor of Science degree in Environmental Science (121A/03.0104)

In addition to the discipline-specific degrees offered in the College of Arts and Sciences, an interdisciplinary Bachelor of Science degree in Environmental Science provides a broad and rigorous curriculum in the natural sciences. Students completing this degree will be prepared to enter environmental science positions in industry, business, or government as well as pursue post-graduate studies in various areas of environmental science. For further information, please refer to the Environmental Science Program in the College of Arts and Sciences section of this *Undergraduate Bulletin*.

Fermentation Sciences Program

Seth D. Cohen, Director

The Bachelor of Science degree in Fermentation Sciences (118A/01.1099)

The Bachelor of Science degree in Fermentation Sciences offered through the College of Arts and Sciences is an interdisciplinary academic curriculum focused on the scientific principles relevant to fermentation processes. In addition to a rigorous academic foundation in core sciences (Chemistry, Biology, Mathematical Sciences), students are required to gain relevant exposure to principles of health and nutrition as well as business and marketing to prepare them for successful careers. Fermentation Sciences majors will be prepared for careers in the craft food and beverage industries, bio-processing of fuels, natural products, bio-pharmaceuticals, water and waste remediation, and agricultural sciences, as well as graduate studies or research and development. For further information, please refer to the Fermentation Sciences Program in the College of Arts and Sciences section of this *Undergraduate Bulletin*.

Interdisciplinary Minors

Minor in Classical Civilizations (128/30.2201)

An undergraduate minor in Classical Civilizations consists of six courses (18 semester hours) and focuses on the culture and history of Greece and Rome. It is designed to introduce students to classics by utilizing a variety of approaches, including historical studies, mythology, languages, and philosophy.

The program of study is available at: www.programsofstudy.appstate.edu/classical-civilizations-minor-128-2012-2013

For additional information, contact Dr. Ozzie Ostwalt, Director of the Classical Civilizations minor at (828) 262-2426.

Minor in Judaic, Holocaust and Peace Studies (126/30.2101)

A student may earn an undergraduate minor in Judaic, Holocaust and Peace Studies by successful completion of an interdisciplinary program of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/judaic-holocaust-and-peace-studies-minor-126-2012-2013

For additional information, contact Dr. Rennie Brantz in the Center for Judaic, Holocaust and Peace Studies at (828) 262-2311.

Minor in Medieval Studies (131/30.1301)

A student may earn an undergraduate minor in Medieval Studies by successful completion of an interdisciplinary program of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/medieval-studies-minor-131-2012-2013

For additional information, contact Dr. Mary Valante at (828) 262-4983.

Department of Anthropology (ANT)

Diane P. Mines, Chair

*Patricia D. Beaver
Jefferson C. Boyer
Cheryl P. Claassen
Linda J. Jencson*

*Susan E. Keefe
Larry R. Kimball
Susan M. Lappan
Dana E. Powell*

*Gregory G. Reck
Gwen Robbins Schug
Timothy J. Smith
Thomas R. Whyte*

The Department of Anthropology is committed to a comparative and holistic approach to the study of the human experience. The anthropological perspective provides a broad understanding of the origins as well as the meaning of biological and cultural diversity in the world--past, present, and future. As such, the program in anthropology offers the opportunity for understanding world affairs and problems within the total context of the human experience and for constructing solutions to world problems which are firmly grounded in that context. Specifically, the department offers: (1) students of all disciplines the opportunity to deepen and broaden their knowledge of humankind and of themselves; (2) a strong preparation for graduate study in anthropology; and (3) an academic and practical background for those who wish to apply the anthropological perspective in a wide range of professional careers, such as social services, international aid and development, medical research, human resources, law, marketing, education, and archeology.

The Bachelor of Arts degree in Anthropology (202*/45.0201) with a concentration in Applied Anthropology (202B)

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-ba-applied-anthropology-202b-2012-2013

The Bachelor of Arts degree in Anthropology (202*/45.0201) with a concentration in Archeology (202D)

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-ba-archeology-202d-2012-2013

The Bachelor of Arts degree in Anthropology (202*/45.0201) with a concentration in General Anthropology (202C)

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-ba-general-anthropology-202c-2012-2013

The Bachelor of Science degree in Anthropology (non-teaching) (201A/45.0201)

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-bs-201a-2012-2013

The Bachelor of Science degree in Anthropology (non-teaching) (201*/45.0201) with a concentration in Biological Anthropology (201C)

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-bs-biological-anthropology-201c-2012-2013

The Bachelor of Science degree in Anthropology (non-teaching) (201*/45.0201) with a concentration in Sustainable Development (201B)

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-bs-sustainable-development-201b-2012-2013

A minor in Anthropology (201/45.0201) consists of any 18 semester hours in anthropology.

The program of study is available at: www.programsofstudy.appstate.edu/anthropology-minor-201-2012-2013

Honors Program in Anthropology

The Department of Anthropology offers honors courses at all levels (ANT 1510, ANT 2510, ANT 3510, ANT 4510) which are open to all students who have distinguished themselves. Students who successfully complete six hours of honors courses and have earned at least a 3.45 GPA in anthropology are eligible to take ANT 4510, Senior Honors Thesis. Students who complete nine hours of honors work, including ANT 4510, with a B average or better will graduate with "honors in anthropology."

Courses of Instruction in Anthropology (ANT)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

ANTHROPOLOGY HONORS (ANT)

ANT 1510. Freshman Honors Colloquium (3).F;S.

Study of selected topics in general anthropology. Enrollment by invitation of the department or by application.

ANT 2510. Sophomore Honors Colloquium (3). On Demand.

Study of selected topic(s) in anthropology, encouraging independent scholarship through reading, writing and discussion. Enrollment is by invitation or application.

ANT 3510. Juniors Honors Colloquium (3). On Demand.

Seminar on a selected topic in anthropology. Enrollment is by invitation of the department, or by application.

ANT 4510. Senior Honors Thesis (3).F;S.

Independent study and research, directed by a Department of Anthropology faculty member and evaluated by a department committee. Prerequisites: successful completion of 6 hours Anthropology honors courses, a 3.45 GPA in Anthropology and approval of thesis topic by departmental honors committee.

ANTHROPOLOGY (ANT)

ANT 1415. Understanding Culture (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Cultural Diversity"); Local to Global Perspective (Theme: "Empire, Colonialism, and Globalization")

This course explores the diversity and unity of human experience through the lens of cultural anthropology. Using case studies and other texts, students will gain familiarity with different cultural worlds. As they do so, they will be asked to think critically about their own cultural ideas and actions, to reflect on problems facing humanity in the contemporary world, and to understand the various ways in which they are historically and socially connected to other people in other places. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

ANT 1420. Archaeology and the Human Past (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Ancient Worlds")

An introduction to the human past through the scientific process of archaeology. Controversial issues discussed may include human evolution, the fate of the Neandertals, peopling of the Americas, and the cycling of state-level societies. Ultimately, lessons from the past are considered in light of contemporary human issues. (CORE: SOCIAL SCIENCES)

ANT 1430. Our Primate Heritage (4).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Life, Earth, and Evolution")

This course examines humans within an evolutionary and biocultural perspective. Students will be introduced to classic and contemporary literature on topics in human evolution and will have the opportunity to make their own observations and analyses within the laboratory. We will explore theoretical frameworks and controversies about important issues such as the nature of science, human variation, and the relationship between humans and our environment. Students will become familiar with evolutionary theory and heredity, primate evolution and basic comparative anatomy, and the fossil record of human evolution. Lecture three hours, laboratory two hours.

ANT 1530-1549. Selected Topics (1-4). On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

ANT 2215. Cultural Anthropology (3).F;S.

The course consists of a critical introduction to fundamental ethnographic concepts, theories, methods, textual representations, and contemporary issues and debates encompassed by the sub-discipline of cultural anthropology. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

ANT 2221. Archaeology (3).F;S.

The scientific study of the unwritten record of the human past. Archaeological theory, methods, and techniques are introduced to illustrate how and why archaeologists study past human life and behavior and explain past human cultural variation. (CORE: SOCIAL SCIENCES)

ANT 2230. Biological Anthropology (3).F;S.

Biological anthropology is the study of primate biology within an evolutionary framework. Topics include evolutionary theory, heredity, the evolution and behavior of living and fossil primates, and an examination of the evolutionary story of *Homo sapiens*.

ANT 2235. North American Archeology (3).F.

A general survey of lifeways in North America before white contact as known through archeological information. Basic archeological concepts and a brief discussion of the history of North American archeology will be presented. Topical emphases include the prehistory of Alaska, the Northwest Coast, the Southwest, Plains, Great Basin, Midwest, and the Eastern United States. This course logically precedes ANT 2400, North American Indians. (WRITING)

ANT 2300. Meso American Cultures (3).S.

GEN ED: Aesthetic Perspective (Theme: "Expressions of Belief")

Introduction to the cultures and peoples of Mexico, Belize, Guatemala, and Honduras. Readings and lectures will focus on language, art, and political economy as vehicles for the expression of beliefs.

ANT 2310. Appalachian Culture (3).F.

A cultural survey of rural and urban Appalachia. A brief history of the region is followed by a discussion of the contemporary social, economic, political, and cultural characteristics of the people. The impact of processes of change, including migration, urbanization, industrialization, and resource exploitation, are explored. (WRITING; CROSS-DISCIPLINARY)

ANT 2320. Prehistory of the Southern Appalachians (3).S.

An overview of what is currently known about the prehistory of the southern Appalachian region from its initial human occupation in the Late Pleistocene epoch to the time of Spanish contact in the 16th Century. The focus is on temporal variations in prehistoric Native American adaptations and interactions within the region as revealed through archaeological research.

ANT 2335. World Prehistory (3).S.

A comparative study of human biological and cultural evolution from the emergence of the genus *Homo* through early civilization. The course emphasizes Old World cultures. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

ANT 2400. North American Indians (3).F;S.

An ethnographic survey of the American Indian cultures from northern Mexico to the Arctic. Also the modern Indian condition is considered. (MULTI-CULTURAL)

ANT 2420. Gender, Race and Class (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Individual and Society")

An anthropological study of gender, social class, ethnicity, race and sexuality as cultural categories with a variety of meanings. Systems of inequality and the ways in which these categories are used to limit access to economic wealth, power, and prestige are analyzed in a global context. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

ANT 2430. Magic, Witchcraft and Religion (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Religion, Myth, and Society")

A cross-cultural study of the nature and functions of belief systems. Emphasis is placed on understanding the belief systems of non-Western cultures in order to provide a means through which our own beliefs can be better understood. A variety of anthropological and psychological approaches to the study of belief systems are used. (MULTI-CULTURAL)

ANT 2435. Stone Age Stereotypes (3).F.

Addresses stereotypes about human prehistory ("cave people") as portrayed in art, literature, and especially television and film. Reviews scientific evidence of human physical and cultural evolution in Europe and the Middle East between 1,000,000 and 10,000 years ago. Involves viewing and critically evaluating various media portrayals which provide and reinforce popular interpretations of human prehistory and evolution.

ANT 2500. Independent Study (1-4).F;S.

ANT 2530-2549. Selected Topics (1-4). On Demand.

An opportunity to study a special topic or a combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

ANT 2600. Southwest Field Experience (3).S.

Southwest Field Experience includes an eleven day field trip to study the anthropology of the southwestern United States. This includes visiting the Hopi, Zuni and Navaho reservations where we observe the living Indian people. Also we visit several important archeological sites which represent the ancestors of the above tribes. A minimum of six weeks of three hour preparatory classes are required prior to the trip. (MULTI-CULTURAL)

ANT 2700. South Asia Through Ethnography (3).S.

This course explores human life in South Asia (India, Pakistan, Bangladesh, Nepal, Sri Lanka) through ethnographic and culture-historical accounts by anthropologists and others. Attending to both similarities and differences among South Asian peoples, the course offers breadth through a survey of general topics (family, religion, caste, gender, colonialism, politics, etc.) as it also scrutinizes in depth a specific topic of contemporary concern, such as untouchability, ethnic strife, religious nationalism, postcolonialism, the South Asian diaspora, or globalization. (WRITING; MULTI-CULTURAL)

ANT 2800. Latin America Through Ethnography (3).F.

This course offers a critical examination of recent and well-received ethnographies on the cultures and regional histories of Latin America (Guatemala, Mexico, Bolivia, Peru, Ecuador, and Chile) with the hope that by taking a multi-framed approach to reading and discussing these contributions, we may better understand both the similarities and differences Latin America has with other world areas. Topics to be discussed include tourism, development, indigenous activism, democracy, transnationalism, violence, performance, health, citizenship, and social movements.

ANT 3120. Field Archeology (3-6).SS.

An introduction to methods and techniques of archeological site survey, mapping, and excavation. Students participate in fieldwork on one or more actual archeological sites. Prerequisite: ANT 2221 or permission of the instructor. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ANT 3150. Human Ecology of the Southern Appalachians (3).F.

A study of the present-day environmental challenges in the southern Appalachians in the cross-cultural, cross-temporal perspective of human ecology. Examines how Native American and modern mountain cultures have related to their environment in the context of human ecology theory and practice in anthropology. Includes a first-hand community view of such regional issues as air pollution's effects on mountain ecosystems, and strip mining's effects on mountain communities in the modern political system. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

ANT 3200. Zooarcheology (3).S.

Trains students in the identification and analysis of animal remains (primarily bone and shell) recovered from archeological sites. Students are provided the opportunity to learn the major bones of vertebrates and the hard anatomy of invertebrates and how to identify several species by their distinctive bones or shells. Various approaches to the quantification and analysis of archeofaunal data are explored. Lecture two hours, laboratory two hours. Prerequisite: ANT 2221 or permission of the instructor. (CROSS-DISCIPLINARY; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ANT 3220. Human Biological Variation (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This course provides a survey of theoretical frameworks in biological anthropology, beginning with an examination of the history and development of evolutionary theory, the modern synthesis, and the "New Physical Anthropology." Feminist critiques, objections to the adaptationist program, and the development of biocultural approaches to human biology will be examined and applied to the study of patterns and processes in human evolution. Issues to be addressed in this course include the evolution of primate life histories, the origin of modern human biological variation, human reproduction, and evolutionary medicine. Prerequisite: ENG 2001 or its equivalent. (WRITING)

ANT 3250. Archeological Laboratory Methods (3).F.

Trains students in the processing and analysis of materials recovered from archeological sites such as artifacts, ecofacts, and sediment samples. Numerical data are produced and analyzed using computer data base systems. Lecture two hours, laboratory two hours. Prerequisite: ANT 2221. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ANT 3300. Human Osteology (3).F.Alternate years.

This course is designed to provide students with an in-depth knowledge of the human skeleton and dentition. This course will examine bones and teeth as dynamic elements that grow, develop, and degenerate throughout the lifespan. Topics covered include bone and tooth biology, microstructure, and gross anatomy including important features and landmarks of each element. Some time will also be devoted to practical issues of applying osteology to estimate age at death, sex, stature, and osteobiography. Prerequisite: ANT 2230 with a grade of "C" or higher.

ANT 3320. Primatological Field Methods (3).On Demand.

An introduction to the planning, conduct, and presentation of scientific research in the field of primatology. This course will familiarize students with field methods used in primate ethology and tropical ecology (including field and laboratory methods), and students will receive hands-on field research training in field methods used in habitat and trail mapping, primate censuses and surveys, collection of behavioral data, collection of botanical data, and monitoring of ecological variables. Each student will design and conduct, and present an independent research project on a topic of their choice related to primate behavior and ecology. Course may be taught as a field course in Costa Rica, Indonesia, or other primate habitat countries.

ANT 3350. Primate Behavior and Ecology (3).On Demand.

An overview of primate diversity and the ways in which primates adapt physically and behaviorally to their environments. Relevant theoretical developments in ecology, evolution, and primatology will be discussed and critically analyzed. Topics include primate diversity and phylogeny, morphology, diets and feeding adaptations, anti-predator strategies, social organization and mating systems, life histories, competition and cooperation, cognition, communication, and conservation biology.

ANT 3405. Quantitative Methods in Anthropology (3).F.Alternate years.

An introduction to how computers, quantitative methods, and anthropological data are used to address anthropological questions. The course focuses on hands-on learning in: basic personal computer operations, the Internet, probability theory, data base management, sampling, research design, categorical analysis, linear regression, correlation, and exploratory data analysis. Students will work with original archeological, bioanthropological, and cultural data on personal computers. Prerequisites: 6 semester hours in anthropology and STT 2810 or STT 2820. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ANT 3410. Qualitative Methods in Anthropology (3).S.

An introduction to standard ethnographic methods used by anthropologists, including participant observation and interviewing. Research design, proposal writing, and research ethics are given special attention. (WRITING)

ANT 3420. Women and Gender in Anthropology (3). On Demand.

Examination of feminist theoretical issues concerning women and gender cross-culturally, such as feminist perspectives on the cultural construction of gender, relations of production and of reproduction, and gender as a central analytic category. Based in ethnographic information from foraging, tribal, and state societies. (WRITING; MULTI-CULTURAL)

ANT 3500. Independent Study (1-4). F;S.

ANT 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

ANT 3530–3549. Selected Topics (1-4). On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

ANT 3550. Applied Anthropology (3).S.

This course provides an understanding of the way in which anthropological methods and knowledge can assist in solving human problems. Reviews the subfields of applied anthropology, the major forms of anthropological intervention and methodologies used in policy science, and ethical guidelines for practitioners. Mini-internships in local agencies will be incorporated as part of the course. (WRITING)

ANT 3600. Archeological Theory (3).F.

GEN ED: Junior Writing in the Discipline (WID)

Explores the history of archeological thought since the eighteenth century (including evolution, cultural history, and processualism) and concludes with contemporary theory (postprocessualism and feminism). Participation in internet archeological activities will supplement coursework and readings. Prerequisites: ANT 2221; and ANT 2320 or ANT 2235 or ANT 2335; and ENG 2001 or its equivalent. (WRITING)

ANT 3625. History of Anthropological Ideas (3).F.

GEN ED: Junior Writing in the Discipline (WID)

A critical examination of the most influential ideas and theories in anthropology from the 19th century to contemporary theoretical schools, viewed in historical context. Changing conceptions of research strategies, research questions, and modes of explanation, as they relate to developing ideas about the nature of anthropology and human culture, are explored. Prerequisite: ENG 2001 or its equivalent. (WRITING; MULTI-CULTURAL)

ANT 3670. Economic Anthropology (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course examines the material dimensions of social life from several theoretical perspectives: formalist, substantivist, Marxist, and contemporary forms of political economic analysis. It also surveys past and current forms of production, distribution and consumption, including ongoing efforts to establish economic alternatives to global capitalist development. Prerequisite: ENG 2001 or its equivalent. (WRITING)

ANT 3800. Ethnographic Writing and Video (3).On Demand.

The general purpose of this course is to explore the nature of ethnographic representation and alternative approaches to writing. In order to accomplish this, the course will focus on three main activities: (1) reading of some current critiques and analyses of ethnographic representation; (2) reading different forms of ethnographic writing by others, including realist, confessional and impressionist tales and viewing and critiquing select ethnographic videos; and (3) writing different forms of ethnographic writing. (WRITING; SPEAKING)

ANT 3900. Ethnographic Field School (2-6). On Demand.

Students will be immersed in a particular cultural context and learn to use standard ethnographic techniques to analyze and interpret the culture. Each student will live in a local community, participating in its daily activities. There will be instruction in the use of qualitative methods, such as observation, mapping, genealogies and life histories, formal interviewing, and cultural domain analysis. A research paper on a topic selected in consultation with the instructor will be required. Prerequisite: ANT 2215 or permission of the instructor. (WRITING; MULTI-CULTURAL)

ANT 4220. Globalization (3).S. Alternate years.

Examines the interactions of politics, economic trends and business actions as they create patterns of international stability, crisis, and change. (Same as PS 4220.)

ANT 4225. Meaning (3).F.

Culture is often described generally as a system of shared meanings. Using semiotic and existential-phenomenological approaches in anthropology, this seminar will look not so much at WHAT the meanings are that people may share, but rather at the WAYS in which meanings are conveyed, silenced, changed, and imagined by human beings in their cultural contexts.

ANT 4230. Magic and Modernity (3).S.

Modernity is often characterized by a constellation of features such as rationality, objectivity, linear time, bureaucracy, and progress. Anthropology arose as a discipline of modernity. Yet many of the worlds that anthropologists study are enchanted worlds where the dead speak, ghosts act, and magic works. This seminar analyzes what happens when modernity meets such enchanted modes of human existence and explores how anthropology might grapple with the problem of using rational methods to understand magical worlds.

ANT 4235. Epistemology and Praxis (3).S.

Representation and the epistemological problems inherent to it are key anthropological problems of the 21st century. Instead of studying identifiable, rooted communities, anthropologists have turned their attention to the rhetorical construction underpinning the very ideas and practices sustaining the experiences of rootedness and group identity. In a world marked more than ever by the politics of identity, access to resources is often predicated on establishing a clear membership in recognizable groups. This seminar will offer students a critical understanding of the construction of 'truth' which bolsters or provides obstacles to claims of membership and includes a discussion of the precarious nature of engagement which disrupts the balance between academic rigor and solidarity.

ANT 4320. Human Evolution (3).S.Alternate years.

This course is a comprehensive survey of hominin evolution. The archaeological and fossil record from the past 8 million years will be examined in detail, including paleoclimate research or, "stones and bones." In addition to studying the evidence for evolution, students will develop critical thinking skills about research paradigms, design, methodology, and interpretive frameworks. Lab exercises will allow students to examine fossil casts using a systems approach that considers structural-functional relationships, competing pressures in evolution, and even misapplication of evolutionary theory. After participating in this course, students will have learned basic human evolutionary anatomy and will also be familiar with key theoretical issues and debates in paleoanthropology. Prerequisite: ANT 2230.

ANT 4330. Bioarchaeology (3).S.Alternate years.

Bioarchaeology is the holistic, interdisciplinary, and epidemiological analysis of human skeletal remains from archaeological contexts. In this course, we will survey topics including age and sex estimation, paleo-demography, biocultural stress markers, pathology and trauma, levels of physical activity and evidence for habitual behavior, and paleodietary analyses. Beyond learning methods of bioarchaeology, students will be given the opportunity to understand the development of interpretive frameworks from evolutionary and biocultural theory. These frameworks will be examined critically and applied to case studies from human populations in different geographical and temporal contexts. (MULTI-CULTURAL; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ANT 4340. Paleoanthropology of South Asia (3).On Demand.

This class will focus on the archaeological record of prehistoric peoples in India, Pakistan, and Sri Lanka. Beginning with an exploration of the earliest known record of human occupation in the Pleistocene, we will move through different chrono-cultural contexts, examining diverse lifestyles of prehistoric peoples, and exploring the intersections among ecology, settlement, subsistence, and health. The class focuses primarily on human skeletal remains as a source of archaeological evidence, and we will often use an adaptationist perspective to understand developments in Indian prehistory. Attention will also be paid to the archaeological, geological, and paleoclimatic evidence as well as the history of archaeology in India, beginning with the British colonial period. (WRITING; SPEAKING; MULTI-CULTURAL)

ANT 4350. Human Reproduction from an Evolutionary Perspective (3).S.Alternate years.

This course will examine human reproduction from an evolutionary perspective. We will discuss topics ranging from the origins of sexual reproduction to human fertility and sexuality and the biological, social, and political implications of childbirth practices, assisted reproduction, and parental care. In the course, students will become familiar with the anatomy and physiology of the human reproductive system and the biological and cultural processes that regulate reproduction in humans, and students will learn to critically evaluate representations of sexual selection, human sexuality, and parenting behavior.

ANT 4360. Primate Conservation (3).On Demand.

An overview of the effects of human activities on wild nonhuman primate populations, including critical analysis of strategies being employed to ensure the persistence of wild primates in their natural habitats. Students will be introduced to fundamental principles and practices in conservation biology using primate case studies. Specific topics include setting conservation priorities, the roles of in situ and ex situ conservation, human-wildlife conflict, genetic issues and population management, the roles of local, national, and international stakeholders in both creating and ameliorating threats to the persistence of wild primates, and the potential impacts of conservation programs on human communities living in habitat countries.

ANT 4400. Palaeolithic Archaeology (3).S.

A detailed examination of the Palaeolithic from a paleoanthropological perspective. The archaeological record (sites, tools, fauna, and geology), methods, and theories for the evolution of our ancestors are explored, as well as competing models concerning extinctions. Students will learn of the evidence for such major events in the Palaeolithic such as the organization of technologies, the demise of the Neandertals, competing explanations for cave art, the evolution of human consciousness, and the emergence of "culture as we know it." Special attention is given to the inferential methods employed to interpret the archaeological record of the Palaeolithic. Prerequisites: ANT 2215, ANT 2221, and ANT 2230.

ANT 4530-4549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

ANT 4550. Senior Seminar in Anthropology (3).F;S.

GEN ED: Capstone Experience

An opportunity for upper level students to reflect upon the anthropological perspective and to contemplate and articulate their own image of anthropology. Diverse issues ranging from the consideration of ethics to the examination of career opportunities to reflections upon the overall meaning of anthropology will be discussed. Designed as a final on-campus opportunity for students to systematically reflect upon their vision of the anthropological enterprise and to integrate their experience in anthropology in relationship to their future goals. Ideally should be taken during the final semester of on-campus study. Required for majors. Prerequisite: ANT 3220, ANT 3600, ANT 3625, or ANT 4570, or approval of the instructor. (WRITING; SPEAKING)

ANT 4565. Agrarian Studies and Rural Development (3). On Demand.

Descriptive and theoretical analysis of peasantry in the context of world economic and political systems in the face of globalization. Explores the political economy of rural development and prospects for sustainable development from a comparative perspective. (MULTI-CULTURAL) [Dual-listed with ANT 5565.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ANT 4568. Language and Culture (3). On Demand.

An overview of the complex relations between language, culture, and society as conceived by linguists and anthropologists. The course takes both an historical and an ethnographic approach to language, and involves close readings of theoretical works on language as well as comparative, cross-cultural readings in the ethnography of speaking. [Dual-listed with ANT 5568.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ANT 4570. Sustainable Development in the Modern World System (3).F;S.

GEN ED: Capstone Experience

This course examines the political economy and cultural ecology of global economic development. It assesses the differing social and material impacts for the peoples of core and peripheral world regions. Students design or assess a sustainable development program in a selected local-regional setting. Required for the sustainable development minor. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY)

ANT 4600. Medical Anthropology (3).F.

An examination of health, illness, and the treatment of disease from a cross-cultural perspective. Includes discussion of various theories of illness, types of healers, and the empirical basis for folk medicine and alternative forms of therapy. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY)

ANT 4900. Field Experience: Internship (3-6). On Demand.

Graded on an S/U basis.

Department of Biology (BIO)

Susan Edwards, Chair

Zack E. Murrell and Ted Zerucha, Assistant Chairs

Maryam Ahmed

Suzanna L. Bräuer

Jeffrey A. Butts

Mary U. Connell

Robert P. Creed

P. Maxwell Dass

Michael M. Gangloff

Jennifer C. Geib

Eva Gonzales

Dru A. Henson

Guichuan Hou

Leslie Sargent Jones

Ece Karatan

Michael D. Madritch

Vicki J. Martin

C. Nathan Mowa

Howard S. Neufeld

Annkatriin Rose

Steven W. Seagle

Lynn M. Siefferman

Shea R. Tuberty

Robert W. Van Devender

Mark E. Venable

Gary L. Walker

John F. Walker

Ray S. Williams

Michael Windelspecht

The primary mission of the Department of Biology is to provide the student with a well-balanced background in the life sciences. A student majoring in biology will examine the characteristics of life at all levels, from the workings of a single cell to the dynamics of an ecosystem. In addition to providing the student with a broad understanding of and appreciation for life and its processes, the curriculum is designed to prepare students for careers in biology or for studies at the graduate level. To meet these objectives the department has established the degree concentrations listed below, each with a somewhat different focus within the discipline.

The Bachelor of Arts degree in Biology (208A/26.0101)

This is the most flexible program in the Department of Biology. It is designed for highly directed students who wish to focus on disciplines not addressed by the other degree concentrations.

The program of study is available at: www.programsofstudy.appstate.edu/biology-ba-208a-2012-2013

The Bachelor of Science degree in Biology/Ecology, Evolution and Environmental Biology (205A/26.1301)

The program of study is available at: www.programsofstudy.appstate.edu/biologyecology-evolution-and-environmental-biology-bs-205a-2012-2013

The Bachelor of Science degree in Biology, Cell/Molecular Biology (124A/26.0101)

In addition to the general objectives of the department, this degree is designed to prepare students for successful admission into professional schools or to continue their studies in graduate and health-care programs.

The program of study is available at: www.programsofstudy.appstate.edu/biology-cellmolecular-biology-bs-124a-2012-2013

Pre-professional students pursuing health-related careers may be interested in the undergraduate minor in Medical Humanities (605/30.9999). Consult the Honors College section of this catalog for information pertaining to that minor.

The Bachelor of Science degree in Biology, Secondary Education (209A/13.1322)[T] (Teaching)

In addition to the general objectives of the department, this degree is designed for students intending to pursue careers in teaching. Students successfully completing this degree will meet the North Carolina Department of Public Instruction requirements to teach biology full-time in grades 9-12 and will be eligible for a North Carolina Secondary General Science teaching license.

The program of study is available at: www.programsofstudy.appstate.edu/biology-secondary-education-bs-209a-2012-2013

Biology Minor (208/26.0101)

A minor in Biology consists of a minimum of 14 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/biology-minor-208-2012-2013

Honors Program in Biology

The Department of Biology provides the opportunity for highly qualified students to graduate with departmental honors in Biology. In order to graduate with "Honors in Biology," the student must have at least a 3.5 overall GPA; a GPA of at least 3.5 in the major (calculation includes cognate courses); and must have completed a minimum of 9 semester hours of honors courses in Biology, including BIO 4518 (Honors Research, 3 s.h.) and BIO 4519 (Biology Honors Thesis, 3 s.h.).

Admission to the Biology Honors Program - Students must apply for admission to the honors program in Biology. Applications will be considered by the department's Honors Committee and by the faculty director of the Biology Honors Program. A student is eligible to apply for admission into the Biology honors program if she or he:

1. has completed at least 45 semester hours of course work with a minimum of 15 semester hours completed at Appalachian State University;
2. is majoring in one of the degree programs in the Department of Biology;

3. has completed BIO 2400 or BIO 2700 with a grade of "B" or higher;
4. has an overall GPA of at least 3.5 and a GPA of at least 3.5 in the major; and
5. has identified a Biology faculty member who has agreed to direct the student's Honors Research (BIO 4518 and Biology Honors Thesis (BIO 4519).

Space in the Biology Honors Program is limited, and not all students meeting the application criteria may be accepted into the Biology Honors Program.

Master of Science

The Department of Biology offers a Master of Science degree in Biology with concentrations in Cell and Molecular Biology, Ecology and Evolutionary Biology, and General Biology. Consult the *Graduate Bulletin* for further information.

Courses of Instruction in Biology (BIO) and General Science (GS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

BIOLOGY (BIO)

BIO 1101. Biology in Society I (4).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Biology and Society")

This course will focus primarily on issues relating to life at the level of the organism inward. The course will examine the broad concepts of how life is defined by the processes of heredity, reproduction and metabolism. These concepts will be examined by studies of societal issues such as cancer, nutrition, gene therapy, patterns of inheritance, drug therapy, and evolution at the cellular level. Lecture three hours, laboratory two hours. (CORE: NATURAL SCIENCES) (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 1101 WILL NOT SUBSTITUTE FOR BIO 1801 FOR SCIENCE MAJORS.

BIO 1102. Biology in Society II (4).F;S.

GEN ED: Science Inquiry Perspective (Themes: "Biology and Society" and "Life, Earth, and Evolution")

This course will primarily focus on issues relating to life at the level of the organism outward. The course will examine the broad concepts of evolutionary processes, the interdependent nature of living organisms, the diversity of life, and the evolution of organ systems. These concepts will be examined by studies of societal issues such as the biodiversity crisis, human evolution, plants and agriculture, the threats from microbes, and issues in conservation ecology. Lecture three hours, laboratory two hours. (CORE: NATURAL SCIENCES) (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 1102 WILL NOT SUBSTITUTE FOR BIO 1802 FOR SCIENCE MAJORS.

BIO 1103. Global Climate Change and Earth's Life (4).S.

GEN ED: Science Inquiry Perspective (Theme: "Global Environmental Change")

A course examining the effects of global climate change on earth's organisms. Lecture combines biological concepts with current knowledge and predictions to provide a broad introduction to key changes possible in earth's biota in a future world. Laboratory provides a hands-on approach to investigating climate change questions. Submission of on-line essays, group discussions and summary reports from laboratory experiments required. Lecture three hours, laboratory two hours.

BIO 1801. Biological Concepts I (4).F;S.

This course will investigate the history of science and the scientific method, the chemical basis of life, cell biology, bioenergetics, DNA structure and function, as well as general and molecular genetics. The course will cover the evolutionary basis of life and the application of evolutionary theories to the study of life. Lecture three hours, laboratory three hours. Corequisite: CHE 1101.

UNLESS NOTED, BIO 1801 IS THE MINIMUM PREREQUISITE FOR ALL BIO COURSES NUMBERED 2000 AND ABOVE.

BIO 1802. Biological Concepts II (4).F;S.

The course will cover the development and application of evolutionary theory to the study of organismal biology. Course material will include discussions of the classification and evolutionary relationships of the domains of life, principles of plant and animal physiology, and overviews of population biology and ecology. Lecture three hours, laboratory three hours. Prerequisite: BIO 1801 with a grade of "C" or higher.

ALL BIOLOGY MAJORS MUST COMPLETE BIO 1801 & BIO 1802 BEFORE TAKING ANY OTHER BIOLOGY COURSE FOR THE MAJOR.

ALL BIOLOGY MAJORS MUST COMPLETE BIO 1801 & BIO 1802 BEFORE TAKING ANY OTHER BIOLOGY COURSE FOR THE MAJOR.

BIO 2000. Introduction to Botany (4).F;S.

Survey of the major topics in plant biology including physiology, morphology, ecology, evolution, aspects of plant diversity and water relations in plants. Lecture three hours, laboratory three hours.

BIO 2001. Introduction to Zoology (4).F;S.

Integrated and phylogenetic study of the animal kingdom. The basic biological problems facing animals will be considered in the context of morphology and evolutionary history. Lecture three hours, laboratory three hours.

BIO 2200. Human Microbiology (4).S.

The main objective of this course is to present the basic principles of microbiology and the nature of microbial diseases to students pursuing health-related fields. The course will focus on microorganisms which are pathogenic to humans, the diseases they cause and the treatment and prevention of those diseases. Lecture three hours, laboratory three hours. Prerequisites: CHE 1101, CHE 1110, and CHE 1102, CHE 1120. Note: BIO 2200 is not open to biology majors for credit.

BIO 2400. Genetics (3).F;S.

This course will cover aspects of transmission genetics, cytogenetics, molecular genetics and the importance of genetics to an understanding of evolution and population dynamics. The genetics of viruses, prokaryotes, and eukaryotes will be studied. Prerequisites: BIO 1801, CHE 1102, and MAT 1025. Lecture three hours. Students cannot receive credit for both BIO 2400 and BIO 2700. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 2410. Genetics Laboratory (1).F;S.

Laboratory investigations of genetic systems in plants, animals, and fungi. Prerequisite or corequisite: BIO 2400 or BIO 2700. Laboratory three hours. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 2500. Independent Study (1-4).F;S.**BIO 2600. Cell Biology (3).F;S.**

Cell biology provides an opportunity to discover in detail the inner workings of cells. Discussion topics include biomolecules, bioenergetics, organization, movement and regulation as well as the intercellular interactions. Lecture three hours. Prerequisite: CHE 1102.

BIO 2610. Cell Biology Laboratory (1).F;S.

Laboratory exercises will provide an opportunity to experience how scientists learn about cells. Experiments will use modern techniques to probe cellular structure, composition and function. Laboratory three hours. Prerequisite: MAT 1025 or equivalent. Prerequisite or corequisite: BIO 2600.

BIO 2700. Human Genetics (3).F;S.

This course examines the principles of genetics from a human perspective. The history of genetic thought will be discussed, as well as pedigree analysis, genetics of human disease, human population genetics, and selected topics on the Human Genome project, behavior, and multifactorial traits. Prerequisites: BIO 1801, CHE 1102, and MAT 1025. Students cannot receive credit for both BIO 2400 and BIO 2700.

BIO 2800. Biotechnology and Society (3).S. Alternate years.

A look at how the recent advances in biotechnology affect society and individuals. Special emphasis is placed on the possibilities that biotechnology brings and the decisions it forces on society. Topics include reproductive technology, population problems, extending life, considerations of the ever-changing definition of death, genetic testing and screening, ecological problems, and others as new technological advances develop. Prerequisite: at least one course in biology, sociology, or ethics. (WRITING; SPEAKING)

BIO 3301. Human Systems Physiology (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

A study of the fundamental principles of human physiology with an emphasis on systemic function. Lecture three hours, laboratory three hours. Prerequisites: one semester of organic chemistry (CHE 2201 or CHE 2101); and ENG 2001 or its equivalent. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 3302. Ecology (4).F;S.

A study of the interaction of organisms with their environment. Principles discussed will include natural selection and adaptation, population growth and regulation, interspecific interactions, including competition, predation, parasite-host relationships and mutualism,

the structure and function of communities and ecosystems, geographical ecology, and human impacts on the biosphere. STT 2810 recommended. Lecture three hours, laboratory three hours. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 3304. Systematic Botany (4).F.

This course begins with the study of plant structure, learning about form and function. Both past and current methods of classification and their theoretical frameworks will be explored. Throughout the semester, in both lecture and lab/field, the tremendous diversity of land plants and the tools used to reconstruct the evolutionary history of plants will be examined. Lecture three hours, laboratory three hours. Prerequisite: BIO 2000 or permission of the instructor.

BIO 3308. Microbiology (4).F;S.

Introduction to the biology of microorganisms, including phylogeny and diversity, growth, metabolism, and genetics. A main objective is to gain appreciation and understanding of diversity and ubiquity of microorganisms. The course also considers the role of microorganisms in human's lives, from ways in which they have shaped our environment to direct microbe-human interactions. The laboratory introduces basic techniques of pure culture work, enrichments and isolation, and experimentation with microorganisms. Prerequisites: CHE 1101, CHE 1110, and CHE 1102, CHE 1120. Lecture three hours, laboratory three hours.

BIO 3309. Developmental Biology (4).S.

A study of the fundamental patterns and principles of animal growth and development at the molecular, cellular, and organismal levels. The laboratory will examine the development of selected invertebrates and vertebrates and will include experimental manipulations of developing systems. Lecture three hours, laboratory three hours.

BIO 3310. Marine Sciences (4).S.

A study of the diverse marine habitats throughout the world and the organisms found within these habitats. Various aspects of the cellular, molecular, and developmental biology of marine organisms will be studied. The laboratory will examine selected marine invertebrates and vertebrates will include experimental manipulations. Lecture three hours, laboratory three hours. (WRITING)

BIO 3312. Environmental Studies (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

An in-depth study of environmental problems from a systems/ecological perspective, with emphasis on the scientific basis of the problems and solutions. Topics will vary by semester but will generally include population growth; mineral water and wildlife resources; energy resources; and waste and pollution. Involves significant written assignments. Lecture three hours. Prerequisites: BIO 1802 and ENG 2001 or its equivalent. (WRITING; SPEAKING)

BIO 3313. Global Change Ecology (4).S.

GEN ED: Junior Writing in the Discipline (WID)

This course explores the causes and consequences of anthropogenic global change with a particular emphasis on key ecological processes. We will explore global changes in biogeochemistry, climate, biodiversity, and land cover. Students will use the scientific literature and laboratory experiences to better understand global environmental datasets and their interactions. Students will develop an understanding of the ecological underpinnings of global changes, and explore consequences as well as potential mitigation strategies. Prerequisites: BIO 1802 and ENG 2001 or its equivalent. Lecture three hours, laboratory three hours. (WRITING)

BIO 3314. Comparative Vertebrate Zoology (4).S.

GEN ED: Junior Writing in the Discipline (WID)

The origin, evolution, anatomy, physiology, taxonomy, and natural history of vertebrates. Lecture three hours, laboratory three hours. Prerequisites: BIO 1801 and ENG 2001 or its equivalent. (WRITING)

BIO 3315. Conservation Biology (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course will introduce students to the foundations, key concepts, and current topics in Conservation Biology. Students will be exposed to different concepts of biodiversity, gain an appreciation of threats to biodiversity at scales ranging from local to global, and learn about the role of state and federal agencies, non-government organizations and other stakeholders in the struggle to preserve the natural resources of an increasingly populous earth. Prerequisites: BIO 1801, BIO 1802, and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

BIO 3320. Air Pollution Effects on Plants and People (3).S.

An in-depth study of the causes and consequences of air pollution throughout the world, including acidic deposition, particulates, visibility problems, and gaseous pollutants such as oxides of nitrogen and sulfur, fluorides, ozone, PAN, and carbon dioxide. The sources of these pollutants and their biological effects will be discussed, as well as their interactions with global climate change.

Lecture three hours; will include field trips to experimental sites. Prerequisites: BIO 1101 and BIO 1102, and junior level standing. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 3436. Introduction to Evolutionary Biology (3).F;S.

An introduction to the study of evolution including a summary of the stratigraphic record, an historical summary of the earth and its major floral and faunal groups, a review of major contributions to evolutionary theory, and a summary of the factors thought to cause evolutionary change. Lecture three hours. (WRITING; SPEAKING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 3500. Independent Study (1-4).F;S.

BIO 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process at the University level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

BIO 3521. Secondary Science Field Experience (1).F;S.

A supervised experience in the instructional process at the secondary school level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all teacher-licensure candidates in biology.

BIO 3530–3549. Selected Topics (1-4). On Demand.

BIO 3800. Molecular Biology (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

A study of the basic molecular processes and critical recombinant DNA technologies. This includes: structure and general features of the biological information molecules DNA, RNA and proteins; DNA replication and repair processes; RNA synthesis and processing; protein synthesis and regulation; and basic recombinant DNA technology. The laboratory will include: DNA isolation techniques; restriction analysis; construction of a recombinant DNA molecule and cloning; DNA-DNA hybridization; *in vitro* translation and analysis of the protein; PCR amplification of DNA; DNA sequencing and analysis; and the introduction to computer analysis of DNA, RNA and proteins. Lecture three hours, laboratory three hours. Prerequisites: BIO 1801 and one semester of organic chemistry; and ENG 2001 or its equivalent. (WRITING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

BIO 4501. Independent Research (3).F;S.

GEN ED: Capstone Experience

A capstone experience in designing and conducting an independent research project. Students will report the results of their study in the form of a paper appropriate for publication in a scientific journal and will present a public seminar on their research. Prerequisites: senior standing, completion of a junior writing course, and permission of the instructor.

BIO 4518. Honors Research (3). On Demand.

Initiation of a research project in the laboratory, field, or classroom under the supervision of a biology faculty member. At least one semester prior to the start of the research project, the student must formally confer with a thesis advisor and must also submit and have approved a formal research proposal. Prerequisite: admission to the Biology Honors Program.

BIO 4519. Biology Honors Thesis (3). On Demand.

GEN ED: Capstone Experience

Work, under the supervision of a biology faculty member, on the project begun in BIO 4518 (Honors Research). An oral report on the project will be presented in a public seminar. A written thesis will be approved by a committee comprised, at minimum, of the thesis advisor and another faculty member. (Note: If a student is using the Biology Honors Thesis to fulfill the requirements for University Honors, one member of the committee must be from outside the Department of Biology.) A student who completes the thesis with a grade of "B" or higher will be eligible for "Honors in Biology." Prerequisite: BIO 4518 with a grade of "B" or higher.

BIO 4550. Nature Study (3). On Demand.

Study of common plants and animals with emphasis on ecology, collecting techniques and identification. Designed for students with limited biology backgrounds. Not open to biology majors for credit. [Dual-listed with BIO 5505.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4551. Ornithology (4).S.

The morphology, physiology, behavior, ecology and identification of birds. Early morning field trips are required. Extended field trips to a variety of habitats will be arranged. Lecture and laboratory will emphasize techniques of observing, recording and analyzing

data using a research project format. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5551.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4552. Entomology (4).F.

A study of the insects, including relevant anatomy for identification and physiology for function, with a special emphasis on the ecological roles of insects and their interaction with other organisms. Evolutionary relationships with related arthropods are also covered. Basic taxonomy of the major insect groups is addressed with a required insect collection, which teaches collecting and preservation techniques. Students are involved in basic experimentation that allows for investigating this very diverse animal group. Lecture three hours, laboratory three hours. [Dual listed with BIO 5552.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4555. Plant Physiology (4).F.

A study of the basic principles of plant physiology and fundamental processes such as cell properties, water relations, growth, photosynthesis, respiration, and mineral nutrition. Prerequisites: CHE 1101, CHE 1110 and CHE 1102, CHE 1120. CHE 2201 and CHE 2203 are strongly recommended. Lecture three hours, laboratory three hours. (WRITING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with BIO 5555.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4556. Mycology (4).F.

An investigation of the fungi with particular reference to the techniques of working with these organisms. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5556.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4557. Ichthyology (4).F.

This course focuses on the ecology, evolution and diversity of fishes. Aspects of fish physiology and behavior will also be covered along with important conservation issues. In the laboratory, students will have the opportunity to learn how to identify major groups of fishes with emphasis on freshwater species. Lecture three hours, laboratory three hours. [Dual listed with BIO 5557.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4558. Taxonomy of the Fleshy Fungi (3).F. On Demand.

An in-depth study of the fleshy fungi (mushrooms [agarics], chanterelles, hydnums, polypores, and corals) with an emphasis on morphology, systematics, and ecology. Methods of collection, macroscopic and microscopic dissection, identification, and preservation are covered. Field trips are required. Lecture two hours, and laboratory three hours. [Dual-listed with BIO 5558.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4559. Mammalogy (4).S.

The natural history, distribution, adaptations, taxonomy and economic importance of mammals. Field trips and visits to zoos will be arranged. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5559.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4560. Herpetology (4).F.

The history, morphology, systematics, physiology, and distribution of amphibians and reptiles. Methods of collecting, storing, studying and identifying specimens as well as behavioral aspects of species in their natural habitats will be covered. Field trips will be required. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5560.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4563. Biology of Aging (3).F.

General study of biological/physiological changes over time in the structure and function of the systems of organisms with emphasis on the human body. Lecture three hours. [Dual-listed with BIO 5563.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4564. Microscopy (4).F.

A study of the principles and techniques of biological microscopy. Lectures include discussions on preparative techniques for various types of bioimaging, the optical theories behind the imaging technologies, and the structure and function of cellular organelles. Laboratories examine practical techniques of tissue preparation for various kinds of microscopy, the effective use of various types of microscopes, and the interpretation of data obtained from various imaging systems. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5564.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4567. Lichenology (3). On Demand.

A study of the morphology, diversity, evolution, ecology, physiology, and chemistry of lichens as well as their significance as biological indicators. Field trips are required. Lecture two hours, and laboratory three hours. [Dual-listed with BIO 5567.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4568. Immunology (4).S.

A study of the immune system with emphasis on cellular interactions involved in the generation of humoral and cell-mediated immune responses. Lecture includes discussions on inflammation, antibody diversity, tissue transplantation, and immunopathologies. Laboratories examine lymphoid tissue organization, lymphocyte function, and antibody-antigen reactions with emphasis on clinical application. Prerequisite or corequisite: BIO 2400. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5568.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4569. Invertebrate Zoology (4).F.

Students will be introduced to the 34 extant major and minor invertebrate phyla which make up 99% of the Earth's named animal species and virtually 100% of those animals yet undiscovered. The intriguing natural history, symmetry and development, mode of locomotion, nutrition, reproduction, and primary environments of the invertebrates will be discussed. Labs will emphasize invertebrate habitats, field collection, phylogenetic relationships as well as ecological and physiological adaptations and examination of major morphological characteristics. Lecture three hours, laboratory three hours with required field trips. [Dual-listed with BIO 5569.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4570. Parasitology (4).F.

A survey of protistan, helminthic and arthropod parasites with emphasis on organisms of medical and veterinary importance. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5570.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4571. Plant-Insect Interactions in Terrestrial Ecosystems (4).F. Alternate years.

A study of the associations between insects and plants, using lecture, class discussions and laboratory exercises. Lecture topics include constraints imposed by plants on herbivorous insects and the strategies insects use to overcome them, pollination biology and ecology and the interplay between biotic and abiotic factors in determining interactions. Laboratory exercises are field-based mini-experiments leading to the development of an individual project with experimentation and paper presentation. Lecture three hours, laboratory three hours. [Dual-listed with BIO 5571.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4572. Virology (3).F.

The objective of this course is to introduce students to the principles of virology as related to the structure, biochemistry, replication, pathogenesis and control of viruses. There will be an emphasis on disease processes and the interaction of animal viruses. General topics include the chemical and physical properties of viruses, virus classification, cultivation and assay of viruses, pathogenesis, persistent infections, biotechnology, and viruses as a cause of neoplasia. The students' analytical and intuitive skills will be challenged by analyzing figures and data from journal articles in class discussions. Lecture three hours. Prerequisite: BIO 2600. [Dual-listed with BIO 5572.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4575. Ecotoxicology (4).S.*GEN ED: Capstone Experience*

This course introduces the various classes of toxicants, their fate within organisms and ecosystems, and the chemical transformations and mechanisms of toxicity. This course will also introduce students to standard lab and field toxicity tests, analysis of toxicity and quantification of toxins, data reduction and analysis, and the power of statistical analyses to identify significant effects. A case study approach will be utilized in lecture and labs to examine the toxic effects of heavy metals, organic compounds, insecticides, and environmental endocrine disrupters. Students will learn about important endpoints and bio-indicators of toxin exposure specific to each class of toxin and how they are used in ecological risk assessment. A service-learning component of the course will require students to conduct group toxicology projects with a local community partner. Lecture three hours, laboratory three hours with some required field trips. Prerequisites: Biology core courses (BIO 1801 and BIO 1802), one semester of organic chemistry, junior level writing in the discipline (WID) course, and senior standing. [Dual-listed with BIO 5575.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4601. Animal Behavior-Ethology (4).S.

Basic principles of animal behavior are approached from an evolutionary perspective. Topics such as instinct, learning, biological clocks, sociobiology, communication and physiological mechanisms of behavior are stressed. Laboratory emphasizes techniques of observing, recording, and analyzing behavior using a research project format. Lecture three hours, laboratory three hours. (WRITING;

SPEAKING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with BIO 5601.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4700. Seminar in Biological Science (3).F;S.

GEN ED: Capstone Experience

A capstone experience in a seminar format. Students will be expected to read seminal articles, monographs, and books from the scientific literature, prepare synthesis papers drawing together ideas from several sources, and present their topics to the seminar group and participate in discussion. Prerequisites: senior standing, completion of a junior writing course, and permission of the instructor.

BIO 4900. Internships in Biology (1-6).F;S.

Practical biological experiences in federal, state, and local agencies. Graded on an S/U basis. [Dual-listed with BIO 5900.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BIO 4910. Capstone Internship in Biology (3).F;S.

GEN ED: Capstone Experience

A capstone experience in a commercial/industrial setting, research laboratory, or research facility, or in a federal, state, or local government agency. Students will be expected to complete a significant project developed in conjunction with the cooperating outside facility or agency, will keep a daily journal of their internship experience, and will report the results of their internship in a public seminar. Prerequisites: senior standing, completion of a junior writing course, and permission of the instructor.

GENERAL SCIENCE (GS)

GS 3300. Educational Applications of Science Concepts (3).F;S.

This course is designed to address science concepts relevant to K-12 teachers in the realms of physical, biological, and earth sciences. Pedagogy reflects styles used in K-12 classrooms: emphasis on inquiry, concept development, quantitative applications, and technology. Course content aligns with the North Carolina Standard Course of Study, the National Science Education Standards, and the Frameworks for 21st-Century Learning. Prerequisites: MAT 1010 or higher and at least sophomore standing.

GS 3500. Independent Study (1-4). On Demand.

GS 3530–3549. Selected Topics (1-4). On Demand.

GS 4403. Teaching Science in Middle and High Schools (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course is for the prospective middle/high school science teacher and it focuses on effective instructional strategies for teaching principles associated with major school science disciplines. Emphasis is placed on planning, science process skills, inquiry-based instruction, hands-on/minds-on activities, improvising materials, demonstrations, and assessment techniques. Special emphasis is also placed on the North Carolina Standard Course of Study and the National Science Education Standards. Secondary education majors will have at least 15 hours of teamed experience in public school classrooms as part of this course. It is STRONGLY ADVISED that all other requirements for licensure (except student teaching) be completed prior to this course. Lecture two hours, laboratory two hours. Prerequisite: ENG 2001 or its equivalent. (WRITING; SPEAKING; COMPUTER)

GS 4404. The Meaning and Nature of Science (3).F.

GEN ED: Junior Writing in the Discipline (WID)

The goal of this course is to help students develop a sound understanding of the nature of science, the process of scientific inquiry, and the reciprocal relationship between science and society through a critical examination of the history of science since the Renaissance. Lecture three hours. Prerequisite: ENG 2001 or its equivalent. (WRITING)

The A.R. Smith Department of Chemistry (CHE)*Claudia P. Cartaya-Marin, Chair**Eric J. Allain**Carol M. Babyak**Nicole S. Bennett**Steven J. Breiner**Jennifer P. Cecile**Michael S. Hambourger**Grant N. Holder**Amanda C. Howell**Lisa F. Huston**Karl T. Jackson**Amanda M. Kutney**Wendy L. Lewis**Pamela M. Lundin**Libby G. Puckett**G.V. Nepali Rajapakse**Michael B. Ramey**Alexander D. Schwab**Samuella B. Sigmann**Barkley C. Sive**Brett F. Taubman**Bridget Tuberty**Dale E. Wheeler**Marilou Wheeler**Stephen D. Williams**Nancy Wilson**Robert J. Yoblinski*

The objectives of the A.R. Smith Department of Chemistry are to prepare students in chemistry for careers in industry, government service, high school and junior college level teaching and for continuing study in chemistry and related areas at the graduate or professional school level. The department also strives to provide a basic understanding of the principles of chemistry and physical science related to all areas of scientific study and to provide the student with an appreciation for the impact of science and technology in today's society.

The Bachelor of Arts degree in Chemistry (216A/40.0501)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-ba-216a-2012-2013

The Bachelor of Science degree in Chemistry (214*/40.0501)

For the Bachelor of Science degree in Chemistry, students must select one of the following concentrations in a career support area. The concentration must be approved by the department upon entering the Bachelor of Science degree in Chemistry.

Certified Chemist concentration (214B)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-certified-chemist-214b-2012-2013

Environmental concentration (214G)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-environmental-214g-2012-2013

Fermentation Sciences concentration (214I)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-fermentation-sciences-214i-2012-2013

Forensic Science concentration (214H)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-forensic-science-214h-2012-2013

Individually Designed concentrations (214F)

Additional concentrations to prepare the chemistry major to pursue other career opportunities may be developed in consultation with the chair of the Department of Chemistry and must be individually approved.

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-individually-designed-214f-2012-2013

Marketing and Business concentration (214D)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-marketing-and-business-214d-2012-2013

Preprofessional and Paramedical concentration (214E)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-bs-preprofessional-and-paramedical-214e-2012-2013

The Bachelor of Science degree in Chemistry, Secondary Education (215A/13.1323)[T] with teacher licensure

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-secondary-education-bs-215a-2012-2013

All junior and senior students majoring in chemistry are expected to participate in weekly seminar discussion periods each semester in residence.

A minor in Chemistry (214/40.0501)

The program of study is available at: www.programsofstudy.appstate.edu/chemistry-minor-214-2012-2013

The undergraduate certificate in Forensic Science (141A/43.0106)

The program of study is available at: www.programsofstudy.appstate.edu/forensic-science-certificate-141a-2012-2013

Honors Program in Chemistry

The A.R. Smith Department of Chemistry offers an honors program in chemistry. Admissions to the honors program requires completion of CHE 1101 and CHE 1102 (Introductory Chemistry I and II), CHE 2201 (Organic Chemistry I) or CHE 2101 (Fundamentals of Organic Chemistry) and a minimum grade-point average, both overall and in the major, of 3.20. To graduate with "honors in chemistry," a student must have a minimum grade point average of 3.45, overall and in chemistry, and must take nine semester hours of chemistry honors credits with a "B" average or better, including CHE 4000 (Chemistry Seminar with honors) and CHE 4510 (Chemistry Honors Thesis). Students may arrange to take specific chemistry courses on an honors basis by negotiating an honors contract with the course instructor before class begins. The honors contract, which was developed by the Department of Chemistry Honors Committee, allows the student to receive honors credit for a regular course in chemistry by specifying the additional assignments that the student should perform in order to receive honors credit. The departmental honors committee must approve the honors contract.

Courses of Instruction in Chemistry (CHE)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

CHEMISTRY (CHE)

CHE 1101. Introductory Chemistry I (3).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Chemistry: Connections to Our Changing World")

A study of the fundamental principles of chemistry emphasizing modern atomic theory, the structure and behavior of atoms, the properties and states of matter, energy relations, periodicity and mole concepts. Lecture three hours. Corequisite or prerequisite: CHE 1110. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

CHE 1102. Introductory Chemistry II (3).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Chemistry: Connections to Our Changing World")

A study of properties of solutions, acid-base concepts, equilibria, elementary thermodynamics, elementary kinetics, electrochemistry. Lecture three hours. Prerequisites: CHE 1101 and CHE 1110; corequisite or prerequisite: CHE 1120. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

CHE 1110. Introductory Chemistry Laboratory I (1).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Chemistry: Connections to Our Changing World")

Laboratory experiments to supplement the study of the topics listed under CHE 1101. Laboratory three hours. Corequisite or prerequisite: CHE 1101. (CORE: NATURAL SCIENCES)

CHE 1120. Introductory Chemistry Laboratory II (1).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Chemistry: Connections to Our Changing World")

Laboratory experiments to supplement the study of the topics listed under CHE 1102. Laboratory three hours. Corequisite or prerequisite: CHE 1102. (CORE: NATURAL SCIENCES)

CHE 2000. Sophomore Research (1).F;S.

Independent research under the direct supervision of a faculty member. Three hours per week of laboratory work, regular progress reports, and a final written report are required. Prerequisite: CHE 1120 or permission of the instructor.

CHE 2101. Fundamentals of Organic Chemistry (3).F;S.

A study of the fundamental concepts and basic physical and chemical properties of the major classes of the compounds of carbon. Emphasis is placed upon the importance of these groups in living systems and in everyday life. Lecture three hours. Prerequisites: CHE 1102 and CHE 1120; corequisite or prerequisite: CHE 2102. This course is not an appropriate prerequisite for CHE 2202.

CHE 2102. Fundamentals of Organic Chemistry Laboratory (1).F;S.

Introduction to basic laboratory practice in the synthesis, identification, and purification of organic compounds utilizing common organic laboratory techniques. Laboratory three hours/half semester. Prerequisites: CHE 1102 and CHE 1120; corequisite or prerequisite: CHE 2101.

CHE 2201. Organic Chemistry I (3).F;S.

First course of a two-semester sequence in organic chemistry. An in-depth study of structure, bonding, properties and stereochemistry of carbon compounds. Introduction to classes of organic compounds and their nomenclature, reaction mechanisms and organic synthesis will also be introduced. Lecture three hours. Prerequisites: CHE 1102 and CHE 1120; prerequisite or corequisite: CHE 2203.

CHE 2202. Organic Chemistry II (3).F;S.

Second course of a two-semester sequence in organic chemistry. Continuing coverage of the classes of organic compounds. Detailed coverage of spectroscopy, carbonyl compounds (aldehydes, ketones, carboxylic acids and derivatives), and amines. Amino acids, carbohydrates and proteins will also be introduced. Reaction mechanisms, organic synthesis and spectroscopy will be emphasized. Lecture three hours. Prerequisites: CHE 2201 and CHE 2203 (with a minimum grade of "C-" in each). Corequisite or prerequisite: CHE 2204.

CHE 2203. Organic Chemistry Laboratory I (1).F;S.

Laboratory practice in the synthesis of organic compounds and the use of common laboratory techniques. Laboratory three hours. Prerequisites: CHE 1102 and CHE 1120; corequisite or prerequisite: CHE 2201 or written permission from the department chair.

CHE 2204. Organic Chemistry Laboratory II (1).F;S.

Laboratory practice in synthesis, separations, practical spectroscopy, and determination of unknowns. Laboratory three hours. Prerequisites: CHE 2201 and CHE 2203 (with a minimum grade of "C-" in each). Corequisite or prerequisite: CHE 2202. (WRITING)

CHE 2210. Quantitative Analysis (3).F;S.

An introduction to analytical chemistry, including a rigorous examination of facets of homogeneous and heterogeneous equilibrium; electrochemical, spectrophotometric, gravimetric, and chromatographic analysis; and evaluation of data. Lecture three hours. Prerequisites: CHE 1102 and CHE 1120. Corequisite or prerequisite: CHE 2211.

CHE 2211. Quantitative Analysis Laboratory (1).F;S.

An introduction to analytical chemistry techniques of volumetric, gravimetric, potentiometric, chromatographic, and spectroscopic analysis. The basic methods of quantitative analysis are introduced and practiced with laboratory unknowns. Laboratory four hours. Corequisite or prerequisite: CHE 2210. (WRITING)

CHE 2400. Introduction to Forensic Chemistry and Criminalistics (3).F.

Introduction to forensic chemistry, including utilization of physical evidence in law enforcement, processing a crime scene, the application of chemistry techniques in the identification and analysis of physical evidence (drugs, blood, fire residues, glass, soil, ink, etc.), forensic toxicology, forensic microscopy, and forensic aspects of arson. Techniques such as chromatography, ultraviolet-visible and infrared spectroscopy, refractive index measurements, breath-analyzers, DNA fingerprinting, and blood-typing will be discussed. Prerequisites: CHE 1102 and CHE 1120. (CROSS-DISCIPLINARY)

CHE 2500. Independent Study (1-4).F;S.**CHE 2525. TA in Introductory Chemistry (1).F;S.**

A supervised experience in the instructional process at the post-secondary school level through direct participation in a laboratory setting. Graded on an S/U basis. Prerequisites: CHE 1101, CHE 1110, CHE 1102, and CHE 1120. May be repeated for a total credit of two semester hours.

CHE 2526. Chemical Safety (1).F.

This course will focus on chemical safety education for students interested in careers in fields involving chemicals and chemical processes. This course will emphasize the in-depth development of "A Safety Culture." The areas of risk reduction and worker protection, government agencies and regulations, and safe chemical management will be addressed. The primary focus will be on best practices in the academic laboratory and The Laboratory Standard, but industry standards will also be covered. Prerequisites: CHE 1101 and CHE 1110 or permission of the instructor.

CHE 2530–2549. Selected Topics (1-4). On Demand.

CHE 2550. Introduction to Environmental Chemistry (3).F.

An introduction to environmental issues as seen through a chemical perspective. A broad survey of the biosphere, hydrosphere, lithosphere, atmosphere, and energy will be conducted. Specific topics include toxic organic compounds, pesticides, environmental endocrine disruptors, metal pollution, natural water chemistry, water pollution and purification, soil chemistry, soil contamination and remediation, the ozone hole, smog, global warming, alternative fuels, and renewable energy. A combination of lecture and lab which meets once per week for three hours. Prerequisites: CHE 1102 and CHE 1120. (CROSS-DISCIPLINARY)

CHE 3000. Introduction to Chemical Research (1).F;S.

An introduction to the techniques and methodology of chemical research. Topics include survey of the chemical literature; information retrieval services; making effective oral presentations, and ethics and safety in the chemical laboratory. This course requires formal speaking. Prerequisites: CHE 2101 or CHE 2202 and CHE 2210. (SPEAKING)

CHE 3301–3302. Physical Chemistry I–II (3-3).F-S.

Physical Chemistry is built upon four major theoretical principles; thermodynamics, kinetics, quantum mechanics, and statistical mechanics. Physical Chemistry I covers an introduction to thermodynamics and kinetics. Physical Chemistry II covers an introduction to quantum mechanics and statistical mechanics. Prerequisites: CHE 2210, CHE 2211, MAT 1120, PHY 1150, and PHY 1151. Lecture three hours. (COMPUTER)

CHE 3303-3304. Physical Chemistry Laboratory (1-1).F-S.

GEN ED: Junior Writing in the Discipline (WID) (CHE 3303)

Experimental investigations which supplement the study of the topics in physical chemistry. Applications of computer techniques for data reduction and manipulation will be introduced and utilized. Prerequisites: CHE 2210, CHE 2211, MAT 1120, PHY 1150, PHY 1151, and ENG 2001 or its equivalent. Corequisite or prerequisite: CHE 3301. (WRITING)

CHE 3400. Junior Research (1).F;S.

Independent research under the direct supervision of a faculty member. Three hours per week of laboratory work, regular progress reports, and a final written report are required. Prerequisite: CHE 2000 or permission of the instructor.

CHE 3404. Inorganic Chemistry (3).S.

The fundamentals of atomic theory and valence bond, ligand field and molecular orbital theories for interpretation of chemical bonding are considered in detail. Applications of these theories to the magnetic and spectral properties, structure, stability, and reaction mechanisms of inorganic compounds are examined, with emphasis on the transition metals. Symmetry and group theory are used to describe the fundamentals of X-ray crystallography. The role of metal atoms in organometallic and bioinorganic molecular systems is considered. Prerequisite: CHE 3301. Lecture three hours.

CHE 3405. Inorganic Chemistry Laboratory (1).S.

Experimental investigations which supplement the study of inorganic chemistry, involving reactions in inert atmospheres, vacuum systems and hot tubes. Corequisite or prerequisite: CHE 3404. Laboratory three hours.

CHE 3500. Independent Study (1–4).F;S.

CHE 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process at the University level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

CHE 3521. Secondary Science Field Experience (1).F;S.

A supervised experience in the instructional process at the secondary school level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all teacher-licensure candidates in chemistry.

CHE 3530–3549. Selected Topics (1-4). On Demand.

CHE 3560. Instrumental Methods of Analysis (3).S.

A study of some of the modern instrumental methods of analysis including electrochemistry, atomic and molecular spectroscopy, magnetic resonance spectrometry, mass spectrometry and gas chromatography. Lecture three hours. Prerequisite: CHE 3301. Corequisite or prerequisite: CHE 3561.

CHE 3561. Instrumental Methods of Analysis Laboratory (1).S.

Experimental investigations involving spectroscopic, electrochemical, and chromatographic measurements to enhance the understanding

of sampling, sample preparation, data reduction, use of analytical instrumentation and data interpretation. Computational techniques for data reduction and modeling will be required. Laboratory three hours. Corequisite or prerequisite: CHE 3560. (WRITING)

CHE 4000. Chemistry Seminar (1).F;S.

GEN ED: Capstone Experience

A senior capstone experience on the presentation and discussion of current chemical topics. Oral and written reports are required. Prerequisites: CHE 3000 and CHE 3303. (SPEAKING)

CHE 4200. Brewing Science and Analysis (4).S.

This course will provide a rigorous coverage of the chemical and physical processes that go into brewing malted beverages, including coverage of the hops, malt, and yeast varieties and how they are combined to produce specific styles and flavors of beers. Flavor and aroma compounds will be quantified by students using appropriate instrumental techniques. Laboratory and lecture combined four hours. Prerequisites: CHE 2210 and CHE 2211. (Same as FER 4200.)

CHE 4400. Senior Research (1).F;S.

A laboratory research project under the supervision of a faculty member. An oral report of the work in progress will be made at the regular seminar and a written report of the results is to be submitted to the chemistry faculty upon completion. May be completed abroad at a university with which Appalachian has an articulation agreement with approval of the department chair. Laboratory four hours (minimum). Prerequisite: CHE 4000 or permission of the instructor. May be repeated once for credit. (SPEAKING)

CHE 4510. Chemistry Honors Thesis (1).F;S.

Independent study and research for an honors thesis directed by a faculty member of the A.R. Smith Department of Chemistry. Prerequisite: completion of seven honors credit hours in chemistry (including CHE 4000 with honors) and a minimum grade point average of 3.45 overall and in chemistry. All honors students must earn credit in this course in two different semesters. To complete the honors thesis requirements, a written thesis must be submitted to and approved by the Department of Chemistry Honors Committee.

CHE 4580. Biochemistry I (3).F;S.

This course covers the properties of amino acids, proteins, carbohydrates, lipids and nucleic acids and presents a brief introduction to enzymology. Major emphasis is on the chemistry of biological compounds. An introduction to intermediary metabolism is also presented. Prerequisite: CHE 2101 or CHE 2202. Lecture three hours. [Dual-listed with CHE 5580.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CHE 4581. Biochemistry I Laboratory (1).F;S.

Experimental investigations which supplement the study of the topics in biochemistry. Prerequisite: CHE 2203 (or equivalent); co- or prerequisite: CHE 4580 or CHE 5580 (or equivalent). Laboratory three hours. (WRITING) [Dual-listed with CHE 5581.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CHE 4582. Biochemistry II (3).S.

This course will cover the intermediary metabolism of amino acids, nucleic acids, carbohydrates and lipids. Metabolic pathways and their associated enzymes are emphasized. Prerequisite: CHE 4580 with CHE 3301 recommended but not required. Lecture three hours. [Dual-listed with CHE 5582.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CHE 4590. Spectral Interpretations (2).F.

A study of the use of spectral data for the identification of organic compounds. Techniques will include UV, IR, NMR, MS, ORD and CD in the identification process. Prerequisites: CHE 2202 and CHE 2204. Lecture two hours.

CHE 4595. NMR Spectroscopy (2).S.

The lecture portion of the course will cover basic nuclear magnetic resonance spectroscopy theory and practice, with particular attention given to the instrumentation available in the department. The laboratory portion of the course will focus on learning to utilize the NMR instrumentation available in the department. Prerequisite: CHE 4560 or CHE 4590. Lecture one hour, laboratory three hours.

CHE 4600. Selected Topics (1–4). On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the chemistry curriculum. May be repeated for credit when content does not duplicate. Prerequisite: upper-division status or departmental permission.

CHE 4610. History of Chemistry (3).S.

A study of the development of chemistry as a science with emphasis on the development of basic concepts, ideas and theories. Prerequisite: a year of introductory chemistry. Lecture three hours.

CHE 4620. Environmental Chemistry (4).S.

GEN ED: Capstone Experience

A capstone course for students pursuing a concentration in Environmental Chemistry, this course will focus the wide diversity of subject matter required by this major. The course will involve discussions and applications of air, water and soil chemistry while giving the student an appreciation of the scientific, legal, political and economic issues inherent in Environmental Chemistry. Prerequisites: CHE 3301, CHE 3560, CHE 3561 STT 2810. Lecture three hours, laboratory three hours.

CHE 4630. Forensic Toxicology (3).S.

This course provides an introduction to forensic toxicology. Topics include the history of toxicology, basic classification of illicit drugs, pharmacokinetics, pharmacodynamics, the isolation and analyses of these drugs in a forensic setting, and specific analyte categories. Lecture three hours. Prerequisite: CHE 2101 or CHE 2202.

CHE 4640. Analytical Methods in Forensic Chemistry (4).F.

This course provides an in-depth discussion of forensic analysis. Topics include analytical tools, statistical analysis, principles of separations and spectroscopy, and the analysis of drugs, arson samples, explosives, paints, and fibers. The course will expand upon CHE 3560 (Instrumental Methods of Analysis) in that the basics learned in that course will be used specifically for forensic analysis. Lecture three hours, laboratory three hours. Prerequisites: CHE 3560 and CHE 3561.

CHE 4800. Forensic Microscopy (4).S.

This course covers the fundamentals of microscopy and introduces various methods and applications for forensic analysis of trace evidence, including Kohler illumination, micrometry, crystallization methods, microchemical testing, refractive index measurements, crystal optics, interference figures, fusion methods, bacterial and tissue staining, and electron microscopy. Lecture three hours, laboratory three hours. Prerequisite: CHE 2202 or permission of the instructor.

CHE 4900. Internship in Chemistry (1-12).F;S.

GEN ED: Capstone Experience

Independent, supervised work in applied chemistry at an approved industrial, quality control, analysis, or production facility. Appropriate entities include, but are not limited to, commercial businesses and governmental agencies. May be taken for a maximum of 12 semester hours, with a maximum of 6 semester hours credit per summer session. Only three of those hours will count toward major requirements. Prerequisite: CHE 3303. Graded on an S/U basis.

Department of Computer Science (CS)

James T. Wilkes, Chair

*E. Frank Barry
Jay B. Fenwick, Jr.
Kenneth H. Jacker
Barry L. Kurtz*

*Alice A. McRae
Cindy A. Norris
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R. Mitchell Parry*

*C. Ray Russell
Rahman Tashakkori*

Computer science is a rapidly evolving discipline that ranges from theoretical studies of algorithms to practical problems of design and implementation of efficient, reliable software and hardware systems. Computer science intermingles theoretical concepts with modern practical applications of the science.

The Computing Accreditation Commission lists computing theory, algorithms and data structures, programming methodology and languages, computer elements and architecture as the crucial areas of computer science. Other areas include software engineering, artificial intelligence, database systems, computer networking, parallel and distributed systems, computer-human interaction, computer graphics, operating systems, and numerical and symbolic computation.

Graduates in computer science are prepared for graduate study in computer science or for work in the computing industry. Open positions in industry continually outpace the number of computer science graduates. This shortage has created outstanding career opportunities for computer science graduates.

Every computer science major is assigned an advisor. Degree candidates should seek approval of their program of study as early as possible in their career, but no later than three semesters before they intend to graduate. For additional information, contact the chairperson of the Department of Computer Science.

The Bachelor of Science degree in Computer Science (219A/11.0701)

This program is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 — Telephone: (410) 347-7700.

The program of study is available at: www.programsofstudy.appstate.edu/computer-science-bs-219a-2012-2013

Minor in Computer Science (219/11.0701)

A minor in Computer Science consists of 12 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/computer-science-minor-219-2012-2013

Honors Program in Computer Science

The Department of Computer Science maintains an Honors Program to provide highly-motivated and academically outstanding students the opportunity to study with like-minded peers and to conduct independent research that results in a senior honors thesis/project. Students may graduate with honors in computer science or with highest honors in computer science, depending on their grades in departmental honors courses and their GPA in the major.

Students may apply for admission to the departmental Honors Program by submitting an application to the chair of the departmental Honors Committee. Admission decisions are made by the Honors Committee. To graduate with "honors in computer science," students must: complete nine (9) semester hours of honors coursework in computer science at the 2000 level or higher including CS 4510, Senior Honors Thesis; earn a grade of "B" or higher in every departmental honors course used to satisfy the above requirement; and, achieve a GPA of 3.45 in the computer science major at graduation.

M.S. in Computer Science

The Department of Computer Science offers a Master of Science degree in Computer Science. Persons interested in this program should consult the *Graduate Bulletin* for further information.

Courses of Instruction in Computer Science (CS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

COMPUTER SCIENCE (CS)

CS 1100. Discrete Mathematics (3).F;S.

A study of discrete mathematics as it applies to computer science. Concepts covered include number systems, sets, logic, Boolean algebra, digital circuits, combinatorics, relations, functions, vectors, matrices, graphs, and induction proofs. Prerequisite: MAT 1020 or MAT 1025 or equivalent with a grade of "C-" or higher.

CS 1410. Introduction to Computer Applications (2).F;S.

CS 1410 DOES NOT FULFILL REQUIREMENTS FOR COMPUTER SCIENCE MAJORS. This course provides students the opportunity to gain knowledge in and experience with information and communication technology to help them be successful in the modern world. Following this course, students will be able to use common software applications for processing, communicating, finding, and sorting information. CS 1410 is not open to students with credit for CS 1440. Prerequisite: passing the math placement test or successful completion of MAT 0010. (COMPUTER)

CS 1425. Overview of Computer Science (3).F;S.

This course provides an overview of computing fundamentals using the world-wide web as a platform. Topics include: number systems, von Neumann architecture, XHTML, client-side web programming using a scripting language such as JavaScript, and server-side web programming using a scripting language such as PHP. No previous programming experience is expected. CS 1425 is not open to students with credit for CS 2440. Corequisite: MAT 1020 or MAT 1025 or equivalent. (COMPUTER)

CS 1440. Computer Science I (4).F;S.

A first programming course using an object-oriented language. Emphasis is placed on problem-solving and appropriate programming standards. Topics include: classes, objects, data types, expressions, conditional statements, loops, strings, arrays, collections, debugging, inheritance, and polymorphism. Lecture three hours, laboratory two hours. Prerequisite: MAT 1020 or MAT 1025 or equivalent with a grade of "C-" or higher. Students with doubts about their mathematics and computing background should consider taking CS 1425 first. (COMPUTER)

CS 1445. Introduction to Programming with Interdisciplinary Applications (4).On Demand.

GEN ED: Quantitative Literacy

This course provides an introduction to problem solving and programming using tools such as MATLAB. The course emphasizes computational methods to solve scientific problems. Topics include: control structures, data types (including structures and arrays), parameterized procedures and recursion, as well as simple I/O control. Prerequisite: MAT 1020 or MAT 1025 or equivalent with a grade of "C-" or higher. Students with doubts about their mathematics and computing background should consider taking CS 1425 (Overview of Computer Science) as a prerequisite to CS 1445. (COMPUTER)

CS 1530–1531. Selected Topics (1–4). On Demand.

CS 2440. Computer Science II (4).F;S.

This course follows CS 1440 (Computer Science I). The course introduces students to advanced programming concepts through the development of small to medium sized projects using software component libraries. Topics emphasize conceptual understanding and applications and include inheritance, polymorphism, recursion, interfaces, collections, stream I/O, exceptions, graphical interfaces, and threads. Lecture three hours, laboratory two hours. Prerequisite: CS 1440 or CS 1445 with a grade of "C" or higher. Corequisite: CS 1100. (COMPUTER)

CS 2450. Introduction to Computer Systems (3).F;S.

This course includes data representation, digital logic, digital circuits, instruction set architecture, and assembly language programming. Prerequisite: CS 2440 with a grade of "C" or higher.

CS 2490. Introduction to Theoretical Computer Science (3).F;S.

This course provides a rigorous but intuitive introduction to computer theory. Topics covered include formal languages, regular expressions, finite automata, grammars, pushdown automata, and Turing machines. Prerequisite: CS 2440 with a grade of "C" or higher.

CS 3100. Junior Seminar (2).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Students develop writing skills in the context of computer science including technical reports, software documentation, user manuals, correspondence, and writing for the web. Ethical, legal, social, historical, and global issues provide a context for the assignments. Prerequisite: ENG 2001 or its equivalent. (WRITING)

CS 3430. Database (3).F;S.

This course covers the design, organization, representation, and manipulation of databases. Topics include the relational model, data definition, data manipulation, queries (SQL), communication and representation (XML), design concepts, security, and integrity. Prerequisite: CS 2440 with a grade of "C" or higher.

CS 3440. Client-side Web Programming (3).F.

This course covers client-side graphical user interface programming using current internet technologies including browser scripting languages, GUI presentation, asynchronous server communication, event handling, and XML processing. A major individual project is required. Prerequisite: CS 2440 with a grade of "C" or higher.

CS 3460. Data Structures (3).F;S.

The use and implementation of various information structures are studied, including arrays, stacks, queues, linked lists, trees and graphs. Prerequisite: CS 2440 with a grade of "C" or higher. (COMPUTER)

CS 3463. Simulation (3).On Demand.

Digital simulation of discrete systems. Simulation design. Statistical analysis and interpretation of simulation output. Simulation of computer and physical systems. Simulation languages. Prerequisites: CS 3460 and either STT 2810 or STT 4250. (COMPUTER)

CS 3470. Current Computer Use (1-6). On Demand.

Work experience which contributes to the student's background in the computing field, such as working as a programmer for a faculty member engaged in research or working in a computer installation for a period of time. The responsibility for arranging such work rests with the student with final approval given by the departmental chair. Graded on an S/U basis.

CS 3481. Computer Systems I (3).F;S.

The hardware and software components of computer systems are studied. Included are those aspects of computer systems that are essential to highly skilled programmers: data representation and operations, source code implementation, processor architecture, program optimization, memory hierarchy, linking, exceptional control flow, and virtual memory. Lecture two hours, laboratory three hours. Prerequisites: CS 2450 and CS 2490. Corequisite: CS 3460. (WRITING)

CS 3482. Computer Systems II (3).F;S.

Continuation of CS 3481. Lecture two hours, laboratory three hours. Prerequisites: CS 3481 and CS 3460. Corequisite: CS 3490. (COMPUTER)

CS 3490. Programming Languages (3).F;S.

This course covers the theory of programming language design and implementation. Languages representative of object-oriented, functional and logic paradigms are discussed and compared. Prerequisites: CS 2490 and CS 3460.

CS 3500. Independent Study in Computer Science (1-3). On Demand.

This course helps the student advance, through study under the direction of a faculty member, in the area(s) of special interest in computer science. It may be taken only after a minor in computer science is completed.

CS 3515. Junior Honors Seminar (3).F.

Selected topics in computer science. Enrollment by permission of the departmental honors committee. May be repeated for credit when content is not duplicated. Prerequisites: change with topic but always include CS 2450 and CS 2490.

CS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

CS 3530–3549. Selected Topics (1–4). On Demand.

CS 3667. Software Engineering (3).F;S.

This course covers the design and implementation of software systems. Topics include requirements analysis, object design, system design, frameworks and patterns, and implementation and testing issues. Prerequisite: CS 2440 with a grade of "C" or higher.

CS 3750. Applied Neural Networks (3). On Demand.

This project-oriented course provides an opportunity for students to learn and apply neural networks techniques to solve a variety of problems from different disciplines, applying such techniques in pattern recognition, time series prediction, data mining, and optimization problems. Focus is on some applications of artificial neural networks in the real world. Prerequisites: CS 1440 with a grade of "C" or higher and MAT 2240.

CS 3760. System Administration and Security (3). On Demand.

Addresses local and global security issues with computers using different operating systems in a networked environment. Assignments allow student teams to experience a variety of administration responsibilities including installation, operation, and management. Prerequisite: CS 3460 with a grade of "C" or higher. Unix experience recommended.

CS 3770. Computational Cryptography (3).S.

This course explores the theory and implementation of modern cryptographic systems and their application to network security. Topics include: symmetric ciphers, encryption standards, public key encryption, key management, cryptanalysis, and network security. Programming projects involve the implementation of cryptographic systems. Prerequisite: CS 3460.

CS 4100. Senior Seminar (2).F;S.

A broad, systematic coverage of current ethical issues facing computer scientists. Current and historical cases from both local and global perspectives are examined. Professional development activities are required including mock interviews and resume writing. Prerequisites: CS 3100 and senior standing in computer science or permission of the instructor. (WRITING; SPEAKING)

CS 4435. Server-side Web Programming (3).S.

This course introduces the technologies for implementing secure, high performance, and sophisticated web sites. Topics may include: installation and configuration of a web server, client/server web applications with database backends, web development frameworks, web services, web data formats, and content management systems. Prerequisites: CS 3430 and CS 3440.

CS 4440. Artificial Intelligence (3).S.

This course covers various topics in artificial intelligence. Topics may also include knowledge representation and manipulation, heuristic programming, expert systems, robotics, machine learning, or natural language processing. Prerequisite: CS 3460.

CS 4450. Data Communications and Networking (3).F. Odd-numbered years.

Introduction to data transmission concepts and techniques; channel characteristics; encoding methods; line control and error detection/correction protocols; circuit, message, and packet switching; layered network architectures and protocols; addressing, routing and flow control strategies; access methods; performance criteria and tradeoffs. Prerequisite: CS 3481. (COMPUTER)

CS 4465. Computer Graphics (3).S. Even-numbered years.

Fundamental concepts of computer graphics. Topics include hardware and software systems, scan conversion of graphics primitives, color and color perception, modeling of curves and surfaces, clipping, antialiasing, model-view and projection transformations, light and shading, and hidden surface removal. Prerequisites: CS 3460 and MAT 2240. (COMPUTER)

CS 4510. Senior Honors Thesis (1-3).F;S.

Independent study and research. Hours are 1-3 semester hours per semester for three semester hours total with a preferred format of one semester hour the first semester and two semester hours the second semester of the senior year. Thesis must be directed by a member of the Department of Computer Science faculty and presented both orally and in writing to the department. Enrollment by permission of the Departmental Honors Committee. Course grade will be determined by the thesis advisor and the Departmental Honors Committee. Prerequisites: completion of six semester hours of departmental honors courses at the 2000 level or higher with a grade of "B" or higher in each.

CS 4520. Operating Systems (4).S.

An in-depth study of the design and implementation of operating systems including device drivers, process management, memory management, and security issues. Lecture three hours, laboratory three hours. Prerequisite: CS 3482. (COMPUTER) [Dual-listed with CS 5520.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CS 4550. Theoretical Computer Science (3).S. Even-numbered years.

A rigorous treatment of theoretical aspects of computer science, including formal definition of the notion of an algorithm, abstract machines, and formal grammars. Prerequisite: CS 2490. [Dual-listed with CS 5550.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CS 4570. Human-Computer Interfaces (3).S. Even-numbered years.

This course covers topics from psychology and computer science related to the design and evaluation of human-computer interfaces (HCI). Topics include: understanding the user audience, HCI architectures, design issues related to various interface components, measuring HCI usability, incorporating HCI design into system development, and social issues. Students are required to complete a group project in HCI presented in written form and orally to the class. Prerequisite: permission of the instructor. (CROSS-DISCIPLINARY) [Dual-listed with CS 5569.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CS 4620. Real-time Systems (4).S. Odd-numbered years.

Real-time hardware and software. Analog and digital data acquisition and reduction. Real-time algorithms and data structures. Advanced programming concepts including double buffering, interrupts, signal handlers, processes and threads, inter-process communication, synchronization, and the operating system kernel. Lecture three hours, laboratory three hours. Prerequisite: CS 3482. (COMPUTER) [Dual-listed with CS 5620.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CS 4740. Digital Image Processing (3). On Demand.

This course provides an opportunity for students to learn digital image processing techniques. Students apply these techniques to images from different fields of science, engineering, and medicine. The course covers image acquisition and display, properties of the human visual system, sampling and quantization, color image representations, image enhancement, image transformations, image compression, and image restoration. Prerequisites: CS 1440 with a grade of "C" or higher and MAT 2240. [Dual-listed with CS 5740.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CS 4800. Capstone Project (3).F;S.

GEN ED: Capstone Experience

The senior capstone project provides the student an independent and collaborative software development experience with a significant project. The course introduces aspects of project management, requirements analysis, and the software lifecycle, but will primarily be concerned with the practical integration of core theories, practices, and ethics of the discipline. Writing and speaking communication skills are reinforced. Prerequisites: senior standing and CS 3667.

Department of Economics (ECO)

John C. Whitehead, Chair

David M. Bruner

Todd L. Cherry

John W. Dawson

David L. Dickinson

Peter A. Groothuis

Onur Ince

John G. Lehman

Tanga M. McDaniel

David M. McEvoy

Michael J. McKee

Owen Ashton Morgan

Timothy J. Perri

Jayjit Roy

Mark C. Strazicich

Ji Yan

The objectives of the Department of Economics are:

1. To provide the basic institutional and theoretical knowledge required for the understanding of the functioning of the American economy and the world economy and for the understanding and analysis of current economic issues and problems
2. To develop the institutional and theoretical knowledge and analytical abilities necessary to prepare students for careers in business and government as managers and researchers on social and business problems
3. To prepare students who seek to become professional economists and/or economic educators for graduate school

The Bachelor of Arts degree in Economics (107*/45.0601)

The Bachelor of Arts degree in Economics is offered in the College of Arts and Sciences in cooperation with the Department of Economics. Students must select one of the following concentrations:

Environmental Economics and Policy concentration (107B)

The program of study is available at: www.programsofstudy.appstate.edu/economics-ba-environmental-economics-and-policy-107b-2012-2013

General Economics concentration(107C)

The program of study is available at: www.programsofstudy.appstate.edu/economics-ba-general-economics-107c-2012-2013

International Economics concentration (107D)

The program of study is available at: www.programsofstudy.appstate.edu/economics-ba-international-economics-107d-2012-2013

Regional Economic Development concentration (107E)

The program of study is available at: www.programsofstudy.appstate.edu/economics-ba-regional-economic-development-107e-2012-2013

International Economics and Business Options

International economics and business options are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in Economics. The program is jointly administered by the Department of Economics and the Department of Languages, Literatures, and Cultures. Students participating in the program have an advisor in each department. The program combines a major in Economics and a major or minor in a language. Students are also advised to pursue a minor in International Business. The various options are:

- Bachelor of Arts with a double major in Economics and one language (Languages, Literatures, and Cultures with a concentration in French and Francophone Studies OR Languages, Literatures, and Cultures with a concentration in Spanish)
- Bachelor of Arts in Economics with a minor in French and Francophone Studies, German or Spanish
- Bachelor of Science in Business Administration with a major in Economics and a minor in French and Francophone Studies, Spanish or German.

Under all three options, the student is expected to demonstrate proficiency in reading and speaking the language selected. At least 15 hours of courses in the language, civilization and culture of the chosen country or area are recommended at the 2000 level or above. Also students are expected to participate, if possible, in any one or more of the following:

1. Pursue a minor in International Business (15 semester hours)
2. Complete a semester or summer session of business study abroad in the country of their choice
3. Complete an internship abroad (usually 6 semester hours)

For further information, students should consult both the chair of the Department of Economics and the chair of the Department of Languages, Literatures, and Cultures.

Courses of Instruction in Economics (ECO)

For the Economics (ECO) course descriptions, see the Department of Economics section under the Walker College of Business.

Department of English (ENG)*James D. Fogelquist, Interim Chair**Tammy Wahpeconiah, Assistant Chair*

*C. William Atkinson
Sandra L. Ballard
Melissa E. Barth
Joseph R. Bathanti
Pamela E. Brewer
William D. Brewer
Elizabeth L. Carroll
E. Cecelia Conway
Leslie S. Cook
Bruce A. Dick
Lynn Doyle
Jill R. Ehnenn
Craig J. Fischer
Howard A. Giskin*

*Kristina K. Groover
Elizabeth A. Gulley
Kimberly K. Gunter
Rosemary Horowitz
Edelma D. Huntley
James M. Ivory
Kathryn J. Kirkpatrick
Leon H. Lewis
Donna L. Lillian
Emory V. Maiden, Jr.
Holly E. Martin
Grace E. McEntee
Thomas M. McLaughlin
Elaine J. O'Quinn*

*David L. Orvis
Alex H. Pitofsky
Colin T. Ramsey
Georgia B. Rhoades
Lynn Moss Sanders
Lynn A. Searfoss
Susan C. Staub
Mark W. Vogel
Tammy Wahpeconiah
Susan C. Weinberg
Jennifer P. Wilson
Michael T. Wilson
Wendy L. Winn*

The aim of the Department of English is to give students competency in written and oral composition and in the interpretation and appreciation of literature. All students are required to earn credit for ENG 1000 and ENG 2001. (ENG 1000 is a prerequisite for all ENG courses 2001 and above.)

The Bachelor of Arts degree in English (233A/23.0101)

The program of study is available at: www.programsofstudy.appstate.edu/english-ba-233a-2012-2013

The Bachelor of Arts degree in English (233*/23.0101) with a concentration in Creative Writing (15-21 semester hours) (233B) offers intensive instruction in literature and creative writing.

The program of study is available at: www.programsofstudy.appstate.edu/english-ba-creative-writing-233b-2012-2013

The Bachelor of Arts degree in English (233*/23.0101) with a concentration in Film Studies (15 semester hours) (233D) offers comprehensive studies of film history and theory.

The program of study is available at: www.programsofstudy.appstate.edu/english-ba-film-studies-233d-2012-2013

The Bachelor of Arts degree in English (233*/23.0101) with a concentration in Professional Writing (18-21 semester hours) (233C) offers intensive instruction in professional writing.

The program of study is available at: www.programsofstudy.appstate.edu/english-ba-professional-writing-233c-2012-2013

The Bachelor of Science degree in English, Secondary Education (234A/13.1305) [T]

The program of study is available at: www.programsofstudy.appstate.edu/english-secondary-education-bs-234a-2012-2013

Since teacher licensure in English requires a balanced preparation in several areas, each student will be provided information indicating courses appropriate to current state and professional guideline requirements. Required also for the teaching degree are six hours of a foreign language beyond the elementary course level, as well as the professional education courses and other criteria specified by the Reich College of Education. For the requirements in teacher education, refer to the Department of Curriculum and Instruction in this catalog.

To receive further information, the student should report to the Department of English during the first semester of the sophomore year or, for transfer students, during the first semester at Appalachian. The student is expected to work closely with the English education advisor in fulfilling the degree requirements.

A minor in English (233/23.0101) consists of 18 semester hours

The program of study is available at: www.programsofstudy.appstate.edu/english-minor-233-2012-2013

Honors Program in English

The Department of English offers an honors program on the freshman, sophomore, junior, and senior levels. In order to remain in the program students must maintain at least a "B" average in honors work. Invited English majors meeting the requirements of the junior-senior honors program (ENG 3510, ENG 3515, and ENG 4510) with a grade of "B" or better and a 3.45 grade-point average in all English course work will graduate with "honors" in English. Those meeting the requirements with a grade of "A" and a 3.65 grade-point average in all English course work will graduate with "high honors" in English. Those meeting the requirements with a grade of "A" and a 3.85 grade-point average in all English course work will graduate with "highest honors" in English.

Master of Arts

The Department of English offers the academic Master of Arts in English, and the Master of Arts in English with teacher preparation, allowing concentrations in community, junior and technical college teaching and in secondary school teaching. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Overseas Study Program

In keeping with the University's belief that studies and travel abroad contribute to its role as an institution of higher learning, the Department of English offers students an opportunity to study either in England or on the continent, or in some instances a combination of both. The programs are directed by regular faculty members and offer opportunities for both supervised group study and individual investigation. Information is available each fall concerning the specific programs to be offered for undergraduate and graduate credit. Students interested in the possibility of such study should make inquiry at the English office early in the school year.

University Writing Center

The Writing Center offers its services to all members of the University community. The center's staff is specially trained to help in the completion of virtually any academic writing project and in the solution of most writing problems. Users of the center should make appointments for its services or may drop in to see if one of the staff is available. The center is conveniently located in the Carol Grotnes Belk Library and Information Commons. For more information, go to www.writingcenter.appstate.edu.

Courses of Instruction in English (ENG)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

ENGLISH HONORS (ENG)

ENG 1510. Freshman Honors Seminar (3).F;S.

Development of individual research and original critical thought; composition. Collateral reading in English, American, or world literature. Members selected by the Department of English. (WRITING) (CORE: ENGLISH)

ENG 2510. Sophomore Honors Seminar in English, American, or World Literature (3).F.

A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 2515. Sophomore Honors Seminar in English, American, or World Literature (3).S.

A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 3510. Junior/Senior Honors Seminar (3).F.

An intensive study of major American authors, genres, or literary movements. By invitation or application.

ENG 3515. Junior/Senior Honors Seminar (3).S.

An intensive study of major world authors, genres, or literary movements. By invitation or application.

ENG 4510. Senior Honors Thesis (3).F;S.

GEN ED: Capstone Experience

Independent study and research. Honors thesis directed by a member of the Department of English and graded by a departmental committee. Oral presentation. Prerequisite: completion of ENG 3510 and ENG 3515 with at least a "B" average.

ENGLISH (ENG)

ENG 0900. Basic Writing (3).F;S.

Review of writing process (planning, writing, rewriting) with emphasis on preparing drafts of different kinds of writing. Writing and instruction to improve fluency, clarity and correctness. Graded on an S/U basis. Course counts as three hours credit toward course load and full-time student eligibility but does not count toward hours required for graduation (See "Institutional Credit"). Prerequisite for ENG 1000 for designated students.

ENG 1000. Expository Writing (3).F;S.

GEN ED: First Year Writing

An introduction to the various types of expository essays. A grade of "C" or higher in this course fulfills the English proficiency requirement for students entering the Reich College of Education or the Walker College of Business. (WRITING) (CORE: ENGLISH)

ENG 1100. Introduction to Literature (3).F;S.

Interpretation of fiction, poetry and drama. Continued emphasis on writing through literary essays. Prerequisite: ENG 1000. (WRITING) (CORE: ENGLISH)

ENG 2000. Writing for Proficiency (1).F;S.

Review of the principles of writing for designated transfer students. Requires writing essays in acceptable college prose. Graded on an S/U basis.

ENG 1000 IS A PREREQUISITE FOR ALL ENG COURSES 2001 AND ABOVE:**ENG 2001. Introduction to Writing Across the Curriculum** (3).F;S.

GEN ED: Second Year Writing

This course introduces students to writing across the curriculum. Students write in different genres for different academic communities, read a variety of academic texts rhetorically, and analyze the writing conventions of various academic communities. Prerequisites: completion of 30 semester hours of credit, including ENG 1000 and UCO 1200. (WRITING) (CORE: ENGLISH)

ENG 2010. English Literature I (3).F;S.

A survey of major writers from the beginning of British literature through the eighteenth century. Recommended for English majors and minors only. Prerequisite: ENG 1000. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 2020. English Literature II (3).F;S.

A survey of major British writers from the Romantics through the present. Recommended for English majors and minors only. Prerequisite: ENG 1000. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 2030. World Literature (3).F.

GEN ED: Literary Studies Designation; Local to Global Perspective (Theme: "Origins and Migrations")

World literature in translation from its beginnings to the seventeenth century. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LIT)

ENG 2040. World Literature (3).S.

GEN ED: Literary Studies Designation; Local to Global Perspective (Themes: "Empire, Colonialism, and Globalization: and "Regions in Global Context")

World literature from the seventeenth century to the present, read in English. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LIT)

ENG 2050. Studies in British Literature (3).F;S.

GEN ED: Literary Studies Designation; Aesthetic Perspective (Theme: "Traditions and Innovations")

A study of selected works of British Literature. Course content will vary and may concentrate on poetry, fiction, drama, or a combination. ENG 2050 will not fulfill British literature core for BA in English or BS in English, Secondary Education majors. Prerequisite: ENG 1000.

ENG 2100. Modern Studies (3).F;S.

A study of recent literature. Course content will vary and may concentrate on poetry, fiction, drama, or a combination. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 2120. African-American Literature (3).F;S.

A critical study of the work of outstanding African-American writers. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

ENG 2130. Ethnic American Literature (3).F;S.

GEN ED: Literary Studies Designation; Local to Global Perspective (Theme: "Democracy and Personal Life")

A study of major ethnic American literature, with a particular focus on Latino American, Asian American, and/or American Indian writers. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

ENG 2170. Introduction to Film (3).F;S.

GEN ED: Aesthetic Perspective (Theme: "How We Tell Stories"); Local to Global Perspective (Theme: "Identity, Culture, and Media")

A critical examination of notable examples of the filmmaker's art from silent movies up to the modern era, including a variety of film genres and including both American and foreign films. (CORE: HUMANITIES)

ENG 2310. American Literature I (3).F;S.

A survey of major writers from the beginning of American literature through the Romantics. Recommended for English majors and minors only. Prerequisite: ENG 1000. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 2320. American Literature II (3).F;S.

A survey of major American writers from the beginning of realism through the present. Recommended for English majors and minors only. Prerequisite: ENG 1000. (WRITING) (CORE: HUMANITIES/LITERATURE)

ENG 2350. Studies in American Literature (3).F;S.

GEN ED: Literary Studies Designation; Historical and Social Perspective (Theme: "This American Life")

A study of selected works of American literature. Course content will vary and may concentrate on poetry, fiction, drama, or a combination. ENG 2350 will not fulfill American literature core for BA in English or BS in English, Secondary Education majors. Prerequisite: ENG 1000.

ENG 2410. Literature and Law I (3).F.

An examination of images of the law and lawyers in literature before the twentieth century. (WRITING)

ENG 2420. Literature and Law II (3).S.

An examination of images of the law and lawyers in literature from the twentieth century to the present. (WRITING)

ENG 2500. Independent Study (1–3).F;S.

Independent research on a topic not offered in a scheduled course. Prior to registration, independent studies must be approved by the directing professor, the departmental chair, and the dean of the College of Arts and Sciences.

ENG 2530–2549. Selected Topics (1–4). On Demand.

Content to vary; may be repeated for credit when content does not duplicate.

ENG 3000. Approaches to Literary Studies (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

An introduction to the discipline of literary studies, with an emphasis on theoretical approaches, literary research, and critical writing. Prerequisite: ENG 2001 or its equivalent. (WRITING)

ENG 3050. Studies in Folklore (3).F;S.

A survey of the forms and functions of folk expressive culture, which may include explorations of traditional narratives, speech, music, history, beliefs, customs, or rituals. This course draws upon methodologies utilized in literary studies, anthropology, sociology, and psychology. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

ENG 3090. Introduction to Professional Writing (3).F;S.

A required course for students who concentrate in Professional Writing under the BA in English. A study of the history, theories, concepts, practices, and genres of professional writing. Topics: audience analysis, professional writing situations, ethics and communication, workplace culture, research methods, data collection strategies and analysis. Prerequisite: ENG 1000. (WRITING; SPEAKING)

ENG 3100. Business Writing (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Focus on business writing concepts, ethics, and research. Emphasis on applied genres: specialized letters and memoranda, resumes, proposals, analytical and fact-finding reports, and other essential forms of professional communication. Prerequisites: ENG 1000, ENG 2001 or its equivalent, and completion of 54 semester hours of credit. (WRITING; SPEAKING)

ENG 3120. Writing and Law (3).F.

A practice in the art of persuasive writing, using the law and legal methods to emphasize both the economy and clarity of reading and writing skills. (WRITING)

ENG 3160. Law and Justice in Film (3).S.

An examination of films that convey powerful messages about the law, lawyers, and law-related media events. (WRITING)

ENG 3170. Advanced Studies in Film (3).S.

An examination of the work of a particular film artist, a select group of filmmakers or a specific film genre. A basic knowledge of film history and techniques is expected of students taking the class. Prerequisite: ENG 2170 or permission of the instructor.

ENG 3171. Survey of World Cinema I (3).F.

An advanced study of world cinematic art and its major movements, from the beginnings of the silent era to about 1945. Content and approach may vary. (WRITING; MULTI-CULTURAL)

ENG 3172. Survey of World Cinema II (3).S.

An advanced study of world cinematic art and its major movements from about 1945 to the present. Content and approach may vary. (WRITING; MULTI-CULTURAL)

ENG 3240. World Literature for Children (3).F;S.

Students will read and analyze translations and other children's books in English from countries around the world. Literary analysis of the books will form the basis for comparing and contrasting cultures, historical periods, and differing national worldviews of childhood. Other issues such as racism and sexism will also be examined. (Same as RE 3240.) (WRITING; MULTI-CULTURAL)

ENG 3300. Applied Grammar (3).F;S.

A study of the syntax of English as described by traditional grammarians with some attention to usage, the development of proof-reading skills, and the descriptive principles of transformational grammar.

ENG 3400. Advanced Expository Writing (3).F;S.

Practice in expository writing, with emphasis on effective style, sound structure, and correct mechanics. It is recommended that ENG 3300 be taken prior to this course. (WRITING)

ENG 3450. Writing Center Theory and Practice (3).S.

This course explores current issues in writing center theory and practice. Students gain insight into the writing process and the practice of assisting writers in one-to-one conferencing. (WRITING)

ENG 3500. Independent Study (1-3).F;S.

Directed, concentrated study of a special topic developed by the student.

ENG 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required for teaching majors.

ENG 3530–3549. Selected Topics (1–4). On Demand.

Content to vary; may be repeated for credit when content does not duplicate.

ENG 3580. Teaching Composition: Theory, Practice, and Pedagogy (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Theory, practice, and pedagogy in the teaching of writing at the secondary level. Prerequisites: ENG 2001 or its equivalent and ENG 3300. (WRITING)

ENG 3610. Studies in the Principles of Language (3).F;S.

An introduction to theories of language structure, language acquisition, and the functions of language within a cultural setting, with particular emphasis on semantics.

ENG 3651. Creative Writing: Poetry (3).F;S.

An introductory course in the writing of poetry, with emphasis on techniques. This course serves as a prerequisite for ENG 3661, ENG 3662, ENG 3663, and ENG 4550. (WRITING)

ENG 3652. Creative Writing: Prose (Fiction) (3).F;S.

An introductory course in the writing of fiction and memoir, specifically the short story, with emphasis on techniques. This course serves as a prerequisite for ENG 3662, ENG 3663, and ENG 4550. (WRITING)

ENG 3661. Advanced Poetry (3).F;S.

An advanced course in the writing of poetry, with emphasis on workshops of students' work and discussion of poems by contemporary poets. May be repeated for credit when content does not duplicate. Prerequisite: ENG 3651.

ENG 3662. Advanced Fiction (3).F;S.

An advanced course in writing fiction, with emphasis on experimentation and technique in the short story. May be repeated for credit when content does not duplicate. Prerequisite: ENG 3651, ENG 3652, or ENG 3670/THR 3670.

ENG 3663. Advanced Creative Non-Fiction (3).S.

An advanced course in the writing of creative non-fiction, with emphasis on workshops of students' essays and study of published works. May be repeated for credit when content does not duplicate. Prerequisite: ENG 3651, ENG 3652, or ENG 3670/THR 3670.

ENG 3670. Playwriting (3).F;S.

A study of the art and craft of writing for performance. Readings will include plays, performance theory, and performance reviews. The course will be run as a workshop in which every student must be an active participant in evaluating her or his own work and that of others. Assignments will include written work, oral presentations, workshop evaluations, and performances. May be repeated for credit when content does not duplicate. This course serves as a prerequisite for ENG 3662, ENG 3663, and ENG 4550. (Same as THR 3670.)

ENG 3679. Screenwriting (3).S.

The purpose of this course is to provide the opportunity to establish a solid foundation in screenplay writing. Strong emphasis will be placed on structure, style and naturalized dialogue, as well as the fundamental importance of thinking and writing visually and simply. Focus will be on the motion picture medium, though other forms such as sitcoms, industrial A/V and soaps will be covered briefly. (Same as THR 3679.)

ENG 3680. Literary Journalism (3).On Demand.

A study of journalism as literature and the practice of writing nonfiction journalistic prose employing the narrative aims and techniques of fiction. (Same as COM 3680.)

ENG 3700. Technical Writing (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Focus on technical writing concepts, usability, ethics, and research. Emphasis on applied genres: instructions, process descriptions, abstracts, definitions, technical reports, and various electronic forms. Prerequisites: ENG 2001 or its equivalent and ENG 3090 or permission of the instructor. (WRITING; SPEAKING)

ENG 3710. Studies in Women and Literature (3).F.

A study of the work of outstanding women writers; course content may vary and may concentrate on poetry, fiction, drama, or non-fiction prose, and associated criticism and theory. (WRITING; MULTI-CULTURAL)

ENG 3720. Studies in the Short Story (3).F. (WRITING; SPEAKING)**ENG 3740. Studies in Poetry** (3).F. (WRITING; SPEAKING)**ENG 3750. Studies in Drama** (3).S. (WRITING; SPEAKING)**ENG 3900. Internship in Secondary Schools** (1).F;S.

A supervised experience in the English instructional process on the secondary level through direct participation in a classroom situation. May be repeated for a total credit of three semester hours. Students should enroll in ENG 3900 the semester before student teaching. Graded on an S/U basis.

ENG 4100. Writing for the Web (3).F.

Gain literacy in writing for electronic media by investigating both the theoretical and practical aspects of the print to electronic media shift. Analysis and creation of electronic media including converting print to web, creating a client website, and conducting a usability test. Prerequisite: ENG 3090 or permission of the instructor. (WRITING; SPEAKING; COMPUTER)

ENG 4170. Film Theory and Criticism (3).F.*GEN ED: Capstone Experience*

An in-depth study of the historical development of film criticism and an examination of contemporary film theory and technique. Prerequisite: ENG 2170.

ENG 4200. Editing (3).F;S.

Concepts, principles, and methods of editing. Includes editing processes, electronic editing, levels of edit, management, and production in the document life cycle. Prerequisite: ENG 3090 or permission of the instructor. (WRITING; SPEAKING)

ENG 4300. Seminar in Professional Writing (3).S.*GEN ED: Capstone Experience*

Emphasis on refining writing and presentation skills for the workplace. Students will complete a client-based project and an e-portfolio. Prerequisites: ENG 3090, plus six semester hours of credit in the Professional Writing concentration under the BA in English. (WRITING; SPEAKING)

ENG 4550. Senior Seminar in Creative Writing (3).F;S.*GEN ED: Capstone Experience*

Content to vary, but may include experimental fiction writing, dramatic writing, poetic forms, and advanced workshops in revision. May be repeated for credit when content does not duplicate. Prerequisite: ENG 3651, ENG 3652, or ENG 3670/THR 3670. (ENG 3661, ENG 3662, or ENG 3663 is a suggested prerequisite, but students may also enroll in the seminar with the permission of the instructor.)

ENG 4560. Adolescent Literature (3).F;S.

This course introduces students to the varied and multi-cultural field of adolescent literature. Students focus on various genres, including realistic fiction, romance and adventure, science fiction/fantasy, autobiography, and poetry. Content includes pertinent criticism, important bibliographies, research studies, historical analysis, and increasingly sophisticated pedagogical resources. Students will use the works they read, current research, and web-based resources to create curricula appropriate for adolescent readers. (WRITING; MULTI-CULTURAL) [Dual-listed with ENG 5560.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ENG 4570. Studies in American Indian Literature (3).F. Alternate years.

A study of major American Indian writers from oral traditions through the present. (WRITING; MULTI-CULTURAL) [Dual-listed with ENG 5570.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ENG 4571. Capstone in American Indian Literature (3).F.*GEN ED: Capstone Experience*

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on American Indian literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4580. Studies in African-American Literature (3).S.

A close examination of major African/American writers, with emphasis on twentieth century novelists and poets.

ENG 4581. Capstone in African-American Literature (3).S.*GEN ED: Capstone Experience*

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on African-American literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4585. Studies in Ethnic American Literature (3).F. Alternate years.

An in-depth and multi-cultural examination of major ethnic American writers. (WRITING;MULTI-CULTURAL) [Dual-listed with ENG 5585.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ENG 4586. Capstone in Ethnic American Literature (3).F.*GEN ED: Capstone Experience*

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Ethnic American literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4590. World Literature (3).F;S.

A study of literary content, theories, and problems of a specific world-epoch.

ENG 4591. Theory and Practice in the Teaching of High School English (3).F;S.

This course gives preservice teachers an opportunity to think about and explore pedagogy and curriculum for Secondary English through reading, discussion, planning, projects and presentations. Participants will also be asked to consider institutional issues and conditions that impact teaching, as well as needs and concerns of adolescents, societal influences on schools, and conceptions of what constitutes good teaching and learning. This course should be taken the semester prior to student teaching. (Same as CI 4591.) (WRITING; SPEAKING)

ENG 4592. Capstone in World Literature (3).F;S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on World literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4610. Modern English Grammar (3). On Demand.

An examination of the syntactic structures of English as described by structural and transformational grammarians.

ENG 4660. History of the English Language (3).F;S.

A study of national, regional, and social varieties of English with particular attention to phonological, morphological, and cultural development.

ENG 4710. Advanced Studies in Women and Literature (3).S.

An examination of the work of a particular woman writer, a select group of related women writers, or a specific topic or genre.

ENG 4711. Capstone in Women and Literature (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on the representation of women in literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4720. Appalachian Literature (3).F.

A study of major regional movements, genres, writers in the Appalachian mountains, from settlement to the present. Content and approach may vary. [Dual-listed with ENG 5720.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ENG 4721. Capstone in Appalachian Literature (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Appalachian literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4730. The Novel (3).S.

A study of selected novels from English, American and world literature.

ENG 4731. Capstone in the Novel (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on the novel and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4760. Literary Criticism (3).S.

Studies of the classical critics in translation and of the contemporary critics, with emphasis on specific techniques.

ENG 4761. Capstone in Literary Criticism (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on literary criticism and theory and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4770. Early American Literature (3).F.

Studies in the works of the founders of American political, religious, and literary culture as reflective of trends in intellectual history.

ENG 4771. Capstone in Early American Literature (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Early American literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4780. Nineteenth Century American Literature (3).S.

Examination of the major authors under whose leadership American literature achieved world prominence.

ENG 4781. Capstone in Nineteenth Century American Literature (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Nineteenth Century American literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4790. Twentieth Century American Literature: 1900-1945 (3).F.

A study of poetic and prose works most characteristic of American literature and thought during the first half of the twentieth century. Emphasis on major writers.

ENG 4791. Capstone in Twentieth Century American Literature: 1900-1945 (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Twentieth Century American literature (1900-1945) and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4795. Twentieth Century American Literature: 1945-Present (3).S.

A study of poetic and prose works most characteristic of postmodern and contemporary American literature and thought. Emphasis on diversity of expression.

ENG 4796. Capstone in Twentieth Century American Literature: 1945-present (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Twentieth Century American literature (1945-present) and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4800. Colloquium (1-4). On Demand.

Content to vary; may be repeated for credit when content does not duplicate.

ENG 4810. Advanced Folklore (3).S.

An in-depth and multi-cultural study of one or more folklore genres in cultural context with interdisciplinary approaches from the humanities and social sciences. It is recommended that ENG 3050, Studies in Folklore, be taken prior to this course. (MULTI-CULTURAL; CROSS-DISCIPLINARY) [Dual-listed with ENG 5710.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ENG 4811. Capstone in Folklore (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on folklore and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4815. Rachel Rivers Coffey Colloquium in Creative Writing (3).F.

GEN ED: Capstone Experience

An advanced creative writing workshop taught for half of the semester by a nationally distinguished senior writer and taught for the other half of the semester by the department's creative writing faculty member. Content to vary by genre. Fulfills the capstone requirement for the Bachelor of Arts degree in English with a concentration in Creative Writing. May be repeated for credit when

content does not duplicate. Prerequisites: ENG 3651, ENG 3652, or ENG 3670/THR 3670 and senior standing. (ENG 3661, ENG 3662, or ENG 3663 is a suggested prerequisite, but students may also enroll in the colloquium with the permission of the instructor.)

ENG 4820. Early English Literature (3).F.

An introductory study of medieval English literature and Middle English.

ENG 4821. Capstone in Early English Literature (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Early English literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4830. Shakespeare I (3).F.

A study of Shakespeare's comedies and histories.

ENG 4831. Capstone in Shakespeare I - Comedies/Histories (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Shakespeare's comedies and histories and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4840. Shakespeare II (3).S.

A study of Shakespeare's tragedies.

ENG 4841. Capstone in Shakespeare II - Tragedies (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Shakespeare's tragedies and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4850. Renaissance Literature (3).S.

A study of literature written in England from 1500 to 1660, with each offering limited to selected works. (WRITING)

ENG 4851. Capstone in Renaissance Literature (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on literature of the Renaissance and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4860. Restoration and Eighteenth Century Literature (3).S.

A study of the literature written in England during the years 1660-1800. Each offering is limited to selected works and authors of the period.

ENG 4861. Capstone in Restoration and Eighteenth Century Literature (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on literature of the English Restoration and Eighteenth Century and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4870. The English Romantic Movement (3).F.

A study of selected works of Blake, Wordsworth, Coleridge, Southey, Scott and Byron, Shelley, Keats, with some attention to essayists and minor poets of the Romantic Movement.

ENG 4871. Capstone in English Romantic Literature (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on the English Romantic movement and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4880. Literature of the Victorian Period (3).F.

A study of selected major English poets, novelists, and essayists of the latter part of the nineteenth century.

ENG 4881. Capstone in Victorian Literature (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Victorian literature and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4890. Twentieth Century British Literature: 1900-1945 (3).F.

A study of major themes and literary techniques found in the British literature of the first half of the twentieth century.

ENG 4891. Capstone in Twentieth Century British Literature: 1900-1945 (3).F.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Twentieth Century British literature (1900-1945) and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4895. Twentieth Century British Literature: 1945-Present (3).S.

A study of major themes and literary techniques found in the British literature of the second half of the twentieth century.

ENG 4896. Capstone in Twentieth Century British Literature: 1945-present (3).S.

GEN ED: Capstone Experience

A senior capstone experience in the presentation and discussion of current topics in literary study, focused on Twentieth Century British literature (1945-present) and culminating in an independent research project. Fulfills the capstone requirement for the Bachelor of Arts degree in English. Prerequisites: ENG 3000, senior standing, and permission of the instructor.

ENG 4900. Internship in Writing/Editing/ (1-12).F;S.

On-the-job work experience individually tailored to students' career orientation. Prerequisite: permission from the Director of the Professional Writing Program is required. Graded on an S/U basis.

Environmental Science Program (ENV)

Christopher S. Thaxton, Director

The Bachelor of Science degree in Environmental Science is designed for students desiring a broad and interdisciplinary approach to studies in the environmental sciences. Although several science departments at Appalachian State University offer ecology, environmental, and/or applied concentrations within their specific discipline, the interdisciplinary nature of this degree allows students the option of pursuing a degree that crosses traditional departmental borders and capitalizes on Appalachian's cross-disciplinary expertise in the area of environmental sciences.

Coursework for the degree is necessarily rigorous and is comprised of a comprehensive science and math base as well as core environmental science courses across the various disciplines of biology, chemistry, geography and planning, geology, and physics and astronomy. The program offers students some latitude to focus on additional courses within a desired discipline and culminates in the completion of a senior capstone course (ENV 4100) that challenges the students to employ multi-disciplinary and cooperative approaches to solving environmental issues.

The primary objectives of this degree are to provide students with the scientific knowledge and analytical skills necessary for careers in the environmental industry, government, and business as well as post-graduate studies in various academic disciplines related to the environmental sciences.

The Bachelor of Science degree in Environmental Science (121A/03.0104)

The program of study is available at: www.programsofstudy.appstate.edu/environmental-science-bs-121a-2012-2013

Courses of Instruction in Environmental Science (ENV)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

ENVIRONMENTAL SCIENCE (ENV)

ENV 3010. Dynamics of Complex Systems (3).F.

This course is an introduction to the quantitative analysis of multi-variate complex systems relevant to the environmental sciences. Topics include stability theory; local and global attractors; the nature and role of feedback; system asymmetry, heterogeneity, and diversity; stability resilience, bifurcations, and critical transitions; chaotic attractors; pattern emergence and self-organized criticality. Lecture three hours. Prerequisites: BIO 1802, CHE 2101, GLY 2250, STT 3850, and PHY 1151.

ENV 3100. Issues in Environmental Science (1).F.

GEN ED: Junior Writing in the Discipline (WID)

This course is open to third year Environmental Science (ENV) majors who have successfully completed ENG 2001, the second year writing course. ENV 3100 fulfills the third year writing in the discipline requirement for ENV majors and must be completed prior to taking ENV 4100, the capstone course. The content will emphasize readings and discussions of important contemporary themes in the biological, chemical, and geophysical areas of environmental science, with an emphasis on developing and honing various types of scientific writing skills for different audiences. Required readings and related discussions will include scientific journal articles, synthesis papers on environmental topics, opinion papers, and technology transfer articles. Prerequisite: ENG 2001 or its equivalent. (WRITING)

ENV 4100. Environmental Science Seminar (3).S.

GEN ED: Capstone Experience

This capstone course emphasizes the critical need for a multi-disciplinary and cooperative approach to solving challenging environmental issues on local and global scales. The course is project-driven and employs literature and case study research, data gathering, and active group problem-solving to address issues such as scientific and engineering solutions, environmental and economic impacts, regulatory compliance, and public policy. Students are required to disseminate project results via written reports, oral presentations, and/or poster sessions. This course serves as the senior capstone course for students enrolled in the Bachelor of Science degree in Environmental Science. Lecture two hours, laboratory three hours. Prerequisite: senior standing or permission of the instructor.

Fermentation Sciences Program (FER)

Seth D. Cohen, Director

The Bachelor of Science degree in Fermentation Sciences is intended to prepare students for successful careers within the industry, business development, or in basic and applied research and development. The FER curriculum ties together multiple scientific and business disciplines necessary for students to understand the broad application of their skills and expertise. The coursework required for the degree program demands that students demonstrate an understanding of advanced principles in chemistry, biology, and mathematical sciences as well as business and marketing. Upper-level coursework in Fermentation Sciences builds on the advanced principles of these disciplines and necessitates the rigor of the curriculum. Students are expected to engage in considerable hands-on experimentation and experience through on- and off-campus internships.

Students within Fermentation Sciences are strongly encouraged to pursue a minor in the specific discipline of their interest. This will help broaden student experiences and hone their skills within a specific field. This is especially pertinent for students considering graduate studies or careers in applied research.

Students successful in the Fermentation Sciences program are poised for careers ranging from the production of beer, spirits, and wine, to other foods and beverages. In addition, the skills and expertise are relevant for careers in rapidly advancing fields such as food science, bio-processing of fuels, natural products, bio-pharmaceuticals, water and waste remediation, and agricultural sciences, as well as graduate studies or research and development. All of these fields demand professionals with a solid understanding of core scientific principles, business management, and strong problem-solving skills.

The Bachelor of Science degree in Fermentation Sciences (118A/01.1099)

The program of study is available at: www.programsofstudy.appstate.edu/fermentation-sciences-bs-118a-2012-2013

Courses of Instruction in Fermentation Sciences (FER)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

FERMENTATION SCIENCES (FER)

FER 1000. Principles of Fermentation Sciences (3).S.

Principles of fermentation sciences will cover the history, culture, and fundamental science of the fermentation processes, basic food science, microbiology, chemistry, biology, natural products chemistry and nutrition. FER 1000 will introduce concepts relating to the cultivation of grapes, grains and hops utilized in the fermentation industry. Students will be exposed to the basic methods and principles behind the fermentation process including production of cheese, bread, vegetables, meats, beer, wine, bio-fuels and distilled products.

FER 2000. Social Implications of Fermented Beverages (1).F.

This seminar will provide an overview and discussions around the historical, cultural, social, moral, ethical and legal aspects of alcohol production and consumption as well as metabolism and human physiology. This includes discussion of ideas such as alcohol consumption in the context of various theological and cultural principles and beliefs. Other exercises, such as debating the merit of alcohol production from food-crops, will provide students with an opportunity to exchange ideas and engage in scholarly debate through verbal and written communication. Lectures and discussion will be lead by invited faculty and staff within their field of expertise (e.g., philosophy and religion, sociology, toxicology, biology).

FER 3000. Viticulture: Vine Physiology and Vineyard Establishment (4).F;S.

Viticulture will focus on the taxonomy, morphology, and cultivation installation and maintenance as well as vine physiology, pest and disease management, water relations and general quality/yield parameters. Discussions will highlight differences based on geographic locations and vine-climate interactions. Students will also gain hands-on experience with vine management and cultivation through visits and collaboration with local vineyards. Prerequisite: BIO 1801. (CROSS-DISCIPLINARY)

FER 3200. Facility Design and Operation (3).S.

This course will provide students with knowledge relevant to the design and operation of standard production facilities. Scientific principles will include fluid and mass transfer and thermodynamics. Students will gain experience interpreting systems and process identification diagrams and equipment design, layout and flow-through. This course will be project-based, where students are required to research and design an appropriate facility including handling of raw materials, waste streams, fermentation, distillation and packaging including cost analysis. Projects will be undertaken in teams and require professional written/oral documentation and presentation.

FER 3500. Independent Study (1-4).On Demand.

FER 3530-3549. Selected Topics (1-4).On Demand.

FER 3560. Undergraduate Research (1-3).On Demand.

The student will participate in a research project under the direction of a faculty member. This may include a research topic relating to fermentation, hop or grapevine development and canopy management, method development in chemistry or microbiology, application of analytical instrumentation, business or market research, or national/international collaboration (e.g., during study abroad). The approved project should be of significant impact for publication or oral presentation at a relevant scholarly meeting. A written project report will be mandatory for assignment of credits upon completion. May be repeated for a total credit of four semester hours.

FER 4100. Wine Production and Analysis (4).F.

Wine production and analysis will lead students through the processing of grapes from the vine to the bottle. Lectures will provide an overview of the winemaking process and the scientific principles associated with each step including microbiology, biochemistry, chemistry, and standard equipment and instrumentation used in the process. The fundamental aspects of berry composition, fermentation kinetics, sanitation, aging and bottling will be discussed. Students will have hands-on experience with micro-scale fermentations and standard laboratory analysis of fruit, must and finished wines. Field trips will include visits to local vineyards and wineries to provide relevant exposure to facilities and the winemaking process. Lecture three hours, laboratory three hours. Prerequisites: CHE 2210 and CHE 2211. (WRITING; CROSS-DISCIPLINARY; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

FER 4200. Brewing Science and Analysis (4).S.

This course will provide a rigorous coverage of the chemical and physical processes that go into brewing malted beverages, including coverage of the hops, malt, and yeast varieties and how they are combined to produce specific styles and flavors of beers. Flavor and aroma compounds will be quantified by students using appropriate instrumental techniques. Laboratory and lecture combined four hours. Prerequisites: CHE 2210 and CHE 2211. (Same as CHE 4200.)

FER 4300. Sensory Analysis of Wine and Beer (3).S.

FER 4300 serves as a final course in the FER series intended to provide students with a competency in sensory science and its relevance to food and beverage production. Students must be 21 years of age although the "sip and spit" technique for proper sensory analysis will be advocated. The course will provide students with the basic principles involved in sensory perception and how these skills are used for quality assurance and detection in the food industry. Students should be adequately prepared to methodically assess products, identify characters and faults, and relate them to scientific principles presented in previous courses and experiences. Competency in statistics and methods of determining statistical differences is requisite for this course. Aspects of branding, marketing, business, laws and liabilities will be integrated into class discussions and projects. Prerequisites: FER 4100 or FER 4200/CHE 4200, and STT 2810. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

FER 4530-4549. Selected Topics (1-4).On Demand.

FER 4900. Internship (1-12).On Demand.

Supervised practical experience in a business/field setting or laboratory setting, e.g. at a winery, brewery, vineyard, or in a natural production or processing facility. Requirements will include good academic standing, a clear agreement on the part of the industrial partner, and a commitment to excellence on the part of the student participant. A final report and an exit presentation are required. Graded on an S/U basis. Prerequisite: students must obtain approval of the program director before enrolling.

Department of Geography and Planning (GHY/PLN)

Kathleen A. Schroeder, Chair

Christopher A. Badurek

Robert N. Brown

Andi M. Cochran

Jeffrey D. Colby

Richard J. Crepeau

Gabrielle L. Katz

Michael W. Mayfield

Leslie A. McLees

Terence M. Milstead

L. Baker Perry

John C. Pine

Art B. Rex

Peter T. Soulé

J. Rosie Tighe

Saskia L. van de Gevel

James E. Young

The major objectives of the Department of Geography and Planning are to:

1. Promote the understanding of the spatial dimensions of human behavior within the physical and cultural systems of the earth and the role of planning in achieving improvement in those systems
2. Offer a well-balanced curriculum which will aid students in finding productive places in society
3. Maintain a faculty and staff dedicated to teaching, scientific research, and community and regional service

The Bachelor of Arts degree in Geography (242A/45.0701)

The program of study is available at: www.programsofstudy.appstate.edu/geography-ba-242a-2012-2013

The Bachelor of Science degree in Community and Regional Planning (218A/04.0301)

The program of study is available at: www.programsofstudy.appstate.edu/community-and-regional-planning-bs-218a-2012-2013

The Bachelor of Science degree in Geography (without teacher licensure) (241*/45.0701)

For the Bachelor of Science degree in Geography, students must select one of the following concentrations:

General Geography concentration (241C)

The program of study is available at: www.programsofstudy.appstate.edu/geography-bs-general-geography-241c-2012-2013

Geographic Information Systems (GIS) concentration (241D)

The program of study is available at: www.programsofstudy.appstate.edu/geography-bs-geographic-information-systems-241d-2012-2013

A minor in Community and Regional Planning (218/04.0301) consists of 20 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/community-and-regional-planning-minor-218-2012-2013

A minor in Geography (242/45.0701) consists of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/geography-minor-242-2012-2013

Undergraduate Certificate in Geographic Information Systems (GIS) (140A/45.0701)

The program of study is available at: www.programsofstudy.appstate.edu/geographic-information-systems-gis-certificate-140a-2012-2013

Honors Program in Geography

The Department of Geography and Planning offers honors courses on all undergraduate levels, which are open to students who have distinguished themselves. Honors courses carry full credit toward the majors in geography and planning, or for non-majors full elective credit. Subject to the recommendations of the departmental honors committee, a student will be considered for graduation with "honors in geography" upon successful completion of at least one semester of honors work in a designated freshman/sophomore level honors course (GHY 1510, GHY 1515, and PLN 2510); one junior level honors course (GHY 3510) which may be taken twice, earning repetitive credit; and the Senior Honors Thesis (GHY 4510). Those students meeting these requirements with the grade of "A" will be considered for graduation with "highest honors in geography."

Master of Arts Degree

The Department of Geography and Planning offers a Master of Arts degree in Geography. Persons interested in this degree program are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Geography (GHY) and Community and Regional Planning (PLN)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

GEOGRAPHY HONORS (GHY)

GHY 1510. Freshman Honors Physical Geography (3).F.

A comprehensive study of our physical earth emphasizing the distributional patterns and inter-relatedness of its land, soils, natural vegetation and habitat, and weather and climate. Examinations of environmental issues including hazardous waste, acid rain, floods, droughts, deforestation, and air and water pollution. (CORE: SOCIAL SCIENCES). Enrollment by invitation or prior honors standing. For enrollees, this course will substitute for GHY 1010.

GHY 1515. Freshman Honors World Regional Geography (3).S.

The study of our contemporary world as defined by its major regions. Examination of major global issues including population problems, technology and cultural change, rural versus urban development, local/global development tendencies, political integrity, and internal/international conflict. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES). Enrollment by invitation or prior honors standing. For enrollees, this course substitute for GHY 1020.

GHY 3510. Advanced Honors Seminar in Geography (3).S.

Seminar on selected geographic topics. Enrollment by invitation of the Department or by application. Barring repetitive content, qualified students may repeat course once. For enrollees, this course may substitute for the appropriate Geography elective.

GHY 4510. Senior Honors Thesis (1-4).F;S.

Independent study and research for an end product, the honors thesis; directed by a member of the geography department, supported by two additional faculty/readers, in all constituting the senior thesis committee. Prerequisite: completion of an approved honors sequence, including GHY 3510. Enrollment by qualified applicants only. For enrollees, this course may substitute for a Geography & Planning free elective or other course as agreed upon by the Geography & Planning Honors Advisor.

GEOGRAPHY (GHY)

GHY 1010. Introduction to Physical Geography (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Sustainability and Global Change")

A comprehensive study of our physical earth emphasizing the distributional patterns and inter-relatedness of its land, soils, natural vegetation and habitat, and weather and climate. Examinations of environmental issues including hazardous wastes, acid rain, floods, droughts, deforestation and air pollution. (CORE: SOCIAL SCIENCES)

GHY 1011. Global Climate Change (4).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Global Environmental Change")

This course provides a scientific examination of global climate change, including the physical patterns within the atmosphere, climate change due to both natural and anthropogenic forcing mechanisms, and projections of future change at various spatial scales. Students will employ the scientific method in a series of field-based experiments to answer problems and address issues that complement the lecture material and focus on aspects of global climate change. Lecture three hours, laboratory two hours.

GHY 1012. Global Change of the Biosphere (4).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Global Environmental Change")

An introduction to the patterns, dynamics, and causes of change in the biosphere. Students will examine the fundamental geographic determinants of biodiversity patterns and the natural and human factors that drive biotic change, including climate change, land cover change, and biological invasions. Students will use the scientific method in hands-on laboratory activities to investigate causal relationships between global change processes and biome shifts, species migration, extinction, and loss of biodiversity. Lecture three hours, laboratory two hours.

GHY 1020. World Regional Geography (3).F;S.

GEN ED: Local to Global Perspective (Themes: "Global Resources" and "Regions in Global Context")

The study of our contemporary world divided into the regions of North America, Central and South America, Africa, the Middle East, Europe, the Russian Realm, and South, East and Southeast Asia. Examination of global issues including population problems, technology and culture change, rural versus urban development, resource exportation and international trade, political identity and international conflict. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

GHY 1040. Introduction to Human Geography (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Cultural Diversity")

This course examines the spatial patterns of human society. By focusing on the description and analysis of the spatial dimensions of human language, economy, religion and government, this course is a celebration of human diversity. Lectures, readings, films, slides, writing exercises, map quizzes and class discussions will help the student to understand and appreciate the geography of the human mosaic. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

GHY 2310. Cartographic Design and Analysis (3).F;S.

An introduction to the relevance of maps, techniques of map interpretation, and map construction. Students will develop a knowledge of basic computer operations, cartographic communication theory, map use, data selection and processing, map design, and computerized map production techniques. Lecture two hours, laboratory two hours. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GHY 2500. Independent Study (1–4).F;S.

GHY 2812. Geospatial Data and Technology (3).F;S.

An introduction to geospatial data and technology used by geographers, planners and others. This includes the collection, management and output of geospatial data. Topics include computing fundamentals, Geographic Information Systems (GIS), Global Positioning System (GPS), remote sensing, and database management systems. Lecture two hours, laboratory two hours. (Same as PLN 2812.) (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GHY 3000. Communicating Geographic Information (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course introduces students to writing styles in geography and provides practice with written and oral communication skills in a variety of academic and professional contexts. Students will critically evaluate geographic writing and oral presentations, use writing as a means of enhancing clarity of thought and depth of knowledge in geography, and communicate effectively in academic and professional settings. Prerequisites: junior standing and registration is restricted to geography majors; and ENG 2001 or its equivalent. (WRITING)

GHY 3011. Europe and the Russian Realm (3).S.

A study of this region's contemporary geographic condition. Emphasis on resource development, superregional cooperation, environmental problems, industrial shifts, marketing and international trade, relations with the United States, and the potential for internal and international political stress. (WRITING; MULTI-CULTURAL)

GHY 3012. U.S. and Canada (3).S.

A survey of the physical, demographic, economic, and political patterns in the United States and Canada, with a focus on characteristics of regions. Students will examine historical and contemporary factors contributing to the geographic diversity and interdependence of the two countries. (WRITING)

GHY 3013. North Carolina (3).F;S.

The study of contemporary conditions and problems of land and people in a southern state. Topics include: economic development and potential for change, population mobility, urbanization and the impact of development in rural and environmentally fragile areas, regional impact of changing life styles, national and international interdependence. Recommended for future North Carolina teachers, public administrators and business leaders.

GHY 3014. Geography of Latin America (3).F.

This course stresses the diversity of physical environments, cultural traditions, and economic activities within Latin America and places special emphasis on the unique approaches that geographers bring to the study of this region. This course develops understanding of spatial patterns in Latin America through current readings, class discussions, lectures, slides, and videos. (MULTI-CULTURAL)

GHY 3015. The Geography of Asia (3).F.

An introductory survey of the region. Emphasis is placed on the geographical patterns and the similarities and differences in physical and cultural environments, population growth, mobility and urbanization; natural resource location and exploitation; economic growth and international linkages; the environmental implications of development; and political stability and change. (WRITING; MULTI-CULTURAL)

GHY 3100. Weather and Climate (3).S.

This course focuses on the basic principles, elements, and controls of meteorology and climatology. The primary objectives are to familiarize the student with major components of the earth's atmosphere, to enhance the student's understanding of the spatial distribution of meteorological elements, and to demonstrate the interactions between human activities and atmospheric elements. Prerequisite: GHY 1010 or permission of the instructor.

GHY 3110. Vegetation, Soils, and Landforms (3).F.

A systematic analysis of the spatial characteristics of vegetation, soils, and landforms especially as they interact in the North American realm. Consideration is given to the processes affecting the ecosystem and their relation to people's activities. Lecture two hours, laboratory two hours. Several extensive field trips are taken. Prerequisite: GHY 1010, or permission of the instructor.

GHY 3130. Geography of Biodiversity (3).S.

The study of past and present geographic patterns of biodiversity. The course focuses on the living environment, emphasizing the physical and ecological conditions and processes that influence the distributions of organisms, communities, and ecosystems. Topics include past climates and continental configurations, dispersal and invasion, patterns of speciation and extinction, biodiversity, and application of biogeographic concepts of environmental conservation.

GHY 3140. Mountain Geography (3).S.

This course explores the physical and human dimensions of mountain environments. Specific topics include: global change in mountain environments, mountain meteorology, mountain hazards, glacial processes, mountain peoples and cultures, health and health care, human adaptation to mountains, and sustainable mountain development. Case studies are drawn from mountain regions around the world, especially the Appalachians, Andes, and Himalayas, with regional emphasis varying by the instructor.

GHY 3200. Geographic Perspectives on Human Behavior (3).S.

An approach to understanding the ways in which people perceive, behave in and structure their geographical environment. The course emphasizes variations in spatial behavior such as the uses of personal spaces and social territories, choosing locations for social activities, migration, and diffusion of ideas and innovations across geographical space and regional organization. Solutions to contemporary problems are stressed.

GHY 3210. Economic Geography (3).S.

The geographic analysis of world economic systems, regions and patterns, as affected by interrelationships between both human and physical variables. Emphasis will be equally divided between theoretical and real-world patterns. Specific subjects of study include agriculture, manufacturing, services, transportation, urban/rural relationships, international markets and trade, and cultural differences in economic patterns. Recommended for business majors and required for geography majors. Prerequisite: one introductory course in either geography or economics. (WRITING; MULTI-CULTURAL)

GHY 3310. Environmental Remote Sensing (3).S.

An introduction to remote sensing technologies used for environmental and geographic analysis. Topics include aerial photo interpretation, satellite sensors, analysis of satellite imagery, thermal and radar sensors, and applications of remote sensing technology for vegetation, hydrology, landform, settlement, and economic development studies. Lecture two hours, laboratory two hours.

GHY 3320. Environmental Issues in Appalachia (3).F.

This course offers a systematic study of the physical and cultural setting of Appalachia. Topics include weather and climate, landforms, soils, vegetation, population, settlement and resource use. Emphasis is placed on the various interactions between people and their environment (e.g. air and water pollution, accelerated erosion, landslides). Field trips will be taken. (SPEAKING)

GHY 3500. Independent Study (1–4).F;S.

GHY 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

GHY 3530–3549. Selected Topics (1–4). On Demand.

GHY 3800. Introduction to Quantitative Methods (3).F;S.

This course will introduce students to a suite of statistical methods used to address research and applied problems in the fields of geography and planning. The course will include discussions of geographic data, sampling techniques, probability theory, parametric/non-parametric techniques in hypothesis testing, and introductory spatial statistics. Classes will address conceptual and theoretical

aspects of each technique in conjunction with manual and software-based analyses of geographic data. (Same as PLN 3800.) (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GHY 3812. Introduction to GIS (3).F;S.

The course covers principles of geographic information science and applied practice with geographic information systems (GIS). Emphasis will be on the primary functions of GIS use, map design, and spatial analysis relevant to social and environmental issues through laboratory exercises and projects. Lecture two hours, laboratory two hours. Prerequisites: GHY 2310 and GHY 2812 or permission of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GHY 3820. GIS for the Environmental and Social Sciences (3).F.

The application of geographic information science (GIS) to the environmental and social sciences. Topics include geospatial data, coordinate systems, cartographic design, remote sensing, and spatial analysis. Lab exercises complement classroom lecture and discussion. An independent project will allow students to apply GIS concepts and skills to a research topic in their discipline. (COMPUTER)

GHY 4200. Urban Geography (3).F.

Spatial organization of human activity focusing on the evolution and organization of city systems, the internal structure of urban areas, and urban problems, policies and planning with emphasis on problem solving and field work. The course is applied in nature and recommended for majors in social studies, business, and planning.

GHY 4230. Political Geography (3). On Demand.

Spatial aspects of territoriality, boundaries, voting patterns, government programs, formation of political units, political development and integration, and environmental policy.

GHY 4240. Transportation Geography and Planning (3).F.

This course examines the link between land use and the way people travel. Students will have the opportunity to study metropolitan evolution, historical trends in transportation, and the combined effect of the two. Additional study explores the many facets of travel (foot, bike, transit, automobile) and specific land use planning practices that attempt to offer more choices for transportation and land use. (Same as PLN 4240.) [Dual-listed with GHY 5240.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GHY 4530-4549. Selected Topics (3).On Demand.

GHY 4620. Synoptic and Regional Climatology (3).On Demand.

This course focuses on atmospheric controls and processes at the synoptic scale. Basic meteorological elements and concepts such as jet streams, long-range forecasting, cyclogenesis, and vorticity are discussed. Local and regional climatic patterns and anomalies are examined with respect to the dynamics of the large-scale circulation features of the atmosphere. Prerequisite: GHY 3100 or permission of the instructor. [Dual-listed with GHY 5620.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GHY 4810. Digital Image Processing (3).F.

Course focuses on acquisition of digital images, image processing, image enhancement techniques for interpretation, and applications of remote sensing technology. Lecture two hours, laboratory two hours. Prerequisites: GHY 2812, GHY 3310 or permission of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with GHY 5810.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GHY 4812. Advanced GIS (3).F;S.

GIS is a wide ranging topic encompassing five distinct functions within a total system context. These functions are: 1) data input, 2) data storage, 3) data management, 4) data manipulation and analysis, and 5) data output. Emphasis will be placed on the applications frequently found in geography and planning. This course is project oriented to give the student maximum experience in each of the functions of a GIS and to allow the student to associate the technical areas of GIS with real-world scenarios. Lecture two hours, laboratory two hours. Prerequisite: GHY 3812 or equivalent experience required. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with GHY 5812.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GHY 4814. Principles of GeoComputation (3).F;S.

GeoComputation is spatial analysis with or without a geographic information system (GIS). The increasing power of computational environments enables the creation of new methods for analyzing geographic data. This course will include principles of GeoComputations, GIS programming, and linking GIS with environmental models. Lecture two hours, laboratory two hours. Prerequisite: GHY 3812 or permission of the instructor. [Dual-listed with GHY 5814.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GHY 4820. Geographical Hydrology (3).S.

The study of the occurrence and movement of water on the earth, with a focus on applications of surface hydrology. Water movement through the hydrologic cycle, flood analysis, and water use/water policy are emphasized. Prerequisites: GHY 1010, GHY 3100, GHY 3110 or with permission of the instructor. [Dual-listed with GHY 5820.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GHY 4830. Senior Seminar (3).F;S.

GEN ED: Capstone Experience

This course provides a capstone experience, bringing together a variety of geography and planning skills, abilities and knowledge. It integrates academic concepts with real-world experience and helps the student advance from the undergraduate academic environment to a geography career and/or to graduate study. (Same as PLN 4830.) (WRITING; SPEAKING)

GHY 4900. Internship in Geography and Planning (3–12).F;S.

The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on an S/U basis.

COMMUNITY AND REGIONAL PLANNING HONORS (PLN)

PLN 2510. Sophomore Honors Town, City and Regional Planning (3).F.

This course provides an introduction to community and regional planning both as method, and as a topic of theoretical inquiry. Discussions include the planning process; social, political, economic, legal, and administrative perspectives related to planning; the relationship between planning and interactions of human occupants with the physical environment; and processes, concepts and theories that help to interpret cultural and physical patterns on the landscape. An important part of this course describes how planning as a discipline helps to build a variety of cross-disciplinary bridges that address contemporary urban and regional problems and issues in America. Field trips are expected. (CORE: SOCIAL SCIENCES). Enrollment by invitation or prior honors standing. For enrollees, this course will substitute for PLN 2410.

COMMUNITY AND REGIONAL PLANNING (PLN)

PLN 2410. Town, City and Regional Planning (3).F;S.

Introduction to the principles, philosophies, processes, and theories of planning. Emphasis is placed on planning approaches to the solution of contemporary regional, urban, and environmental problems. Students may choose to participate in field trips. (CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

PLN 2500. Independent Study (1–4).F;S.

PLN 2812. Geospatial Data and Technology (3).F;S.

An introduction to geospatial data and technology used by geographers, planners and others. This includes the collection, management and output of geospatial data. Topics include computing fundamentals, Geographic Information Systems (GIS), Global Positioning System (GPS), remote sensing, and database management systems. Lecture two hours, laboratory two hours. (Same as GHY 2812.) (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PLN 3432. Planning Techniques (4).F.

GEN ED: Junior Writing in the Discipline (WID)

The course helps students develop skills and knowledge of planning methods and learn techniques that planners use to accomplish tasks in the planning office. The class combines formal lectures, discussion, and in-class exercises. Prerequisites: PLN 2410 and GHY 2812 or PLN 2812; and ENG 2001 or its equivalent. (WRITING; SPEAKING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PLN 3500. Independent Study (1–4).F;S.

PLN 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

PLN 3530–3549. Selected Topics (1–4). On Demand.

PLN 3730. Land Use Regulations (3).F;S.

This course teaches students about the uses and limitations of land use regulations at the local government level. Topics include: the U.S. system of land use controls and constitutional limitations on public control of private property; the structure of local zoning and subdivision ordinances; legal and administrative perspectives on land use regulations in local government decision-making; landowner rights and concerns; the site review process; environmental land use regulations; and planning ethics. Prerequisite: PLN 2410.

PLN 3800. Introduction to Quantitative Methods (3).F;S.

This course will introduce students to a suite of statistical methods used to address research and applied problems in the fields of geography and planning. The course will include discussions of geographic data, sampling techniques, probability theory, parametric/non-parametric techniques in hypothesis testing, and introductory spatial statistics. Classes will address conceptual and theoretical aspects of each technique in conjunction with manual and software-based analyses of geographic data. (Same as GHY 3800.) (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PLN 4240. Transportation Geography and Planning (3).F.

This course examines the link between land use and the way people travel. Students will have the opportunity to study metropolitan evolution, historical trends in transportation, and the combined effect of the two. Additional study explores the many facets of travel (foot, bike, transit, automobile) and specific land use planning practices that attempt to offer more choices for transportation and land use. (Same as GHY 4240.)

PLN 4425. Task-Oriented Group Facilitation Methods (3).S.

Develop leadership and group facilitation skills through hands-on instruction that demonstrates how to conduct focused conversations, lead workshops, and accomplish action planning. Application opportunities using these skills include community development, organizational planning, education, government, and other occasions when people want to actively participate in the creation of their own futures. (Same as COM 4425.) (SPEAKING)

PLN 4450. Planning for Sustainable Communities (3).S

This course familiarizes students with the opportunities and challenges of sustainable development in the context of community experience and civic life in the U.S. Emphasis is placed on linking collective behaviors; the social, ecological, and economic impacts of those behaviors; and strategies for increasing sustainability at the community scale. [Dual-listed with PLN 5450.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PLN 4460. Environmental Policy and Planning (3).S.

This course familiarizes students with the philosophical, legal, and institutional foundations of environmental policy and planning in the United States. Students will have the opportunity to study policies and planning tools for federal, state, and local agencies. [Dual-listed with PLN 5460.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PLN 4470. Community Development (3).F.

This course introduces students to conventional and alternative approaches to community development. Students will have the opportunity to study aims and strategies employed by community development professionals, activists, and community members in urban and rural settings. Topics for reading and discussion include: poverty and race, affordable housing, economic revitalization, environmental justice, and public participation in planning. [Dual-listed with PLN 5470.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PLN 4530-4549. Selected Topics (3).On Demand.

PLN 4700. Planning Studio (3).S.

This advanced undergraduate studio course helps planning majors apply planning knowledge and skills through a project that addresses a current planning concern. Under faculty supervision, students follow a formal planning process; locate and exchange information for project development and support; follow organizational, analytical, participatory, and interpretive procedures for developing and implementing project phases; practice presentation skills; and produce written and visual materials appropriate to the planning field. Open to planning majors; others by permission of the instructor.

PLN 4830. Senior Seminar (3).S.

GEN ED: Capstone Experience

This course provides a capstone experience, bringing together a variety of planning and geography skills, abilities and knowledge. It integrates academic concepts with real-world experience and helps the student advance from the undergraduate academic environment to a planning career and/or to graduate study. (Same as GHY 4830.) (WRITING; SPEAKING)

PLN 4900. Internship in Geography and Planning (3–12).F;S.

The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on an S/U basis.

Department of Geology (GLY)

William P. Anderson, Jr., Interim Chair

*Richard N. Abbott, Jr.
William P. Anderson, Jr.
Sarah K. Carmichael
Gabriele M. Casale*

*Ellen A. Cowan
Chuanhui Gu
Steven J. Hageman
Andrew B. Heckert*

*Jamie S.F. Levine
Cynthia M. Liutkus
Scott T. Marshall
Johnny A. Waters*

The fundamental purpose of the Department of Geology is to promote a scientific understanding of earth systems - an awareness essential to an environmentally sound and sustainable future for the human race. The specific purposes of the Department of Geology are:

1. To provide all students with the opportunity to learn about the nature of science and basic scientific principles through the study of geology
2. To introduce students to the many ways in which geology is interwoven into the fabric of modern civilization
3. To provide students with an understanding of the interrelationships of the basic parts of Earth Systems
4. To provide students who seek a career in geology with the sound background for productive work in the profession and in graduate studies
5. To provide present and future teachers with the knowledge and methods necessary for competent instruction in the earth and environmental sciences
6. To provide members of the public with the opportunity to gain a better understanding of the Earth Systems of which they are a part

A major in geology leading to either the Bachelor of Arts degree or the Bachelor of Science (non-teaching) degree is appropriate for those students who intend to pursue graduate studies in Geology. The Bachelor of Science (non-teaching) degree is recommended for students who seek a career at the Bachelor degree level.

The Bachelor of Arts degree in Geology (244A/40.0601)

The program of study is available at: www.programsofstudy.appstate.edu/geology-ba-244a-2012-2013-0

The Bachelor of Science degree in Geology (244A/40.0601)

The program of study is available at: www.programsofstudy.appstate.edu/geology-bs-244a-2012-2013

The Bachelor of Science degree in Geology (non-teaching) (259*/40.0601) with a concentration in Environmental Geology (259C) will provide a background for students who seek a career or graduate work in which they apply geological principles to the solution of environmental problems.

The program of study is available at: www.programsofstudy.appstate.edu/geology-bs-environmental-geology-259c-2012-2013

The Bachelor of Science degree in Geology (non-teaching) (259*/40.0601) with a concentration in Paleontology (259D) will provide a background for students who seek graduate work in various fields of paleontology, paleobiology or the oil and gas industry.

The program of study is available at: www.programsofstudy.appstate.edu/geology-bs-paleontology-259d-2012-2013

The Bachelor of Science degree in Geology (non-teaching) (259*/40.0601) with a concentration in Quantitative Geoscience (259E) will provide a background for students interested in pursuing professional careers or graduate study in areas that demand rigorous quantitative and numerical skills. These areas may include, but are not limited to: geophysics, hydrology/hydrogeology, tectonics/seismology and paleontology.

The program of study is available at: www.programsofstudy.appstate.edu/geology-bs-quantitative-geoscience-259e-2012-2013

The Bachelor of Science degree in Geology, Secondary Education (243A/13.1399) [T] (with teacher licensure)

The program of study is available at: www.programsofstudy.appstate.edu/geology-secondary-education-bs-243a-2012-2013

A minor in Geology (244/40.0601) (17 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/geology-minor-244-2012-2013

Courses of Instruction in Geology (GLY)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

GEOLOGY (GLY)

GLY 1101. Introduction to Physical Geology (4).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Restless Planet: Earth, Environment, and Evolution")

Introduction to the composition, origin, and modification of Earth materials through the study of the Earth's interacting dynamic systems; study and application of the scientific method with reference to the principles of geology as demonstrated through use of case histories and laboratory material. Lecture three hours, laboratory two hours. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 1102. Introduction to Historical Geology (4).F;S.

GEN ED: Science Inquiry Perspective (Themes: "Life, Earth, and Evolution" and "Restless Planet: Earth, Environment, and Evolution")

A study of the historical and biological aspects of the science of geology – tectonic models for understanding earth structure and lithospheric history, the physical and paleontological bases for understanding geologic time and dating rocks, biological principles relating to the evolution of organisms revealed in the fossil record, facts and theories of biological evolution, a survey of the evolution of organisms through time, the geologic history of North America, and discussion of the scientific aspects of the scientific-religious controversy of evolution vs. creationism. Lecture three hours, laboratory two hours. (CROSS-DISCIPLINARY; NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 1103. Introduction to Environmental and Applied Geology (4).F;S.

GEN ED: Science Inquiry Perspective (Theme: "Restless Planet: Earth, Environment, and Evolution")

A survey of the chemical and physical processes that change the Earth's crust and surface creating geologic hazards and environmental problems for people; human perturbations of the environment that directly and indirectly affect geological change and human life, such as mining, waste disposal, and agricultural practices; and the principles of origin, distribution, availability, environmental consequences of use, and exploration of the Earth's mineral and water resources. Lecture three hours, laboratory two hours. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 1104. Water: Mountains to Sea (4).F.

GEN ED: Science Inquiry Perspective (Themes: "The Blue Planet" and "Global Environmental Change")

A study of the interaction between terrestrial water and geological phenomena. The course applies the scientific method to the study of the continental components of the hydrologic cycle. It also focuses on the interaction of water with the rock and plate tectonic cycles. Lecture three hours, laboratory two hours.

GLY 1105. Oceanography (4).S.

GEN ED: Science Inquiry Perspective (Theme: "The Blue Planet")

A study of physical, chemical, biological, and geological oceanography and their interrelationships. Lecture three hours, laboratory two hours. (NUMERICAL DATA) (ND prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 1510. Geological Science Honors–Physical (4). On Demand.

The origin, composition, and modification of the Earth and Earth materials through geologic time. Physical and chemical principles are used to evaluate Earth processes. This course, plus GLY 1511 will fulfill the one year general education natural science requirement. Prerequisite: MAT 1020 or high school equivalent. Enrollment by invitation of the department or by application. Lecture three hours, laboratory two hours. (WRITING; NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 1511. Geological Science Honors–Historical (4). On Demand.

Geochronology, based on biological and physical principles, and the biological principle of evolution and genetics are used in conjunction with geologic principles to evaluate Earth history and the history of life. Prerequisite: GLY 1510. Enrollment by invitation of the department or by application. Lecture three hours, laboratory two hours. (WRITING; NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 2250. Evolution of the Earth (4).F;S.

This course consists of the integrated study of the physicochemical and biological systems of the earth and their evolution over time, including investigation of the persistent linkage of geologic and biologic systems over earth's history. This course provides a basis for understanding the stratigraphic, geochemical, geophysical, and paleontological data utilized to reconstruct earth history, including a

survey of the 4.5 billion years of earth system history, with special emphasis on the tectonic history of North America as observed in the Appalachian Mountains. The course also provides a survey of the evolution of life over earth history, an introduction to the paleontological principles utilized in understanding the fossil record of evolution, and an introduction to advanced methods of rock and mineral identification and classification. Lecture three hours, laboratory three hours. Prerequisite: one of the following courses: GLY 1101, GLY 1102, GLY 1103, GLY 1104, or GLY 1105.

GLY 2301. The History of Coal from the Pennsylvanian to the Present (3).S.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

Coal has played a critical role in the history of the southern Appalachians. The geologic processes that formed coal and shaped the landscape into the steep ridges and hollows of the Appalachian coalfields have directly affected the human history of the region – from hunting in pre-colonial times, to settlement and subsistence farming in the 1800s, to mining and unionization in the 1900s, to mountaintop removal and natural gas/coalbed methane extraction in the last decade. This course covers the physical and chemical processes that form coal as well as the tectonic and geomorphologic processes that formed the landscape of the coalfields and shaped the agricultural practices of the early settlers. It examines the cultural history of coal mining and life in the company-owned coal camps and the political history of unionization through literature and film. The economics and environmental consequences of coal-fired power plants are discussed, and the environmental and occupational hazards associated with both underground and surface coal mining are analyzed from both a scientific and a sociological perspective. (Same as AS 2301.)

GLY 2500. Independent Study (1-4).F;S.

GLY 2745. Preparation of Geologic Reports (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course provides instruction in various aspects of data collection, quantitative and qualitative analysis, and the preparation and presentation of written and oral geologic reports to standards of the profession. Topics include: survey of geologic literature and digital information retrieval services, research design, data management, ethics and safety. Data collection and mapping in the field is a major component of the course and vigorous hiking is required. Lecture three hours, laboratory three hours. Prerequisites: GLY 2250 and ENG 2001 or its equivalent. Open only to Geology majors and minors. (WRITING; SPEAKING; COMPUTER)

GLY 3025. Principles of Paleontology (3).S.

Ancient environments and their change through geologic time are characterized using the fossil remains of organisms. The distribution of organisms through time and space is applied in this course to solve problems in geology, archeology and conservation biology. Biological evolution is studied in the scope of major events in Earth's history. Lecture two hours, laboratory three hours. Prerequisite(s): GLY 2250 (4 s.h.) OR 6 s.h. at the 2000-level or above in either BIO or ANT. (WRITING; CROSS-DISCIPLINARY; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 3131. Geochemistry (3).S.

Geochemistry examines the occurrence and movement of elements through global earth systems, including natural and human-modified environments. This course will introduce and investigate processes and factors controlling the geochemical cycles of elements within and between the hydrosphere, lithosphere, atmosphere and biosphere. Students will apply principles learned in lecture to real-world environmental problems. Lecture two hours, laboratory three hours. Prerequisites: GLY 2250, CHE 1101, CHE 1110 and MAT 1110, or permission of the instructor.

GLY 3150. Principles of Structural Geology and Tectonics (3).F.

The nature, classification, genesis, and quantification of microscopic and mesoscopic geologic structures, plus the history and fundamentals of tectonic theory, are the subjects of this course. Prerequisites: GLY 2250 and GLY 2745. Lecture two hours, laboratory three hours. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 3160. Introduction to Geophysics (3).S.

An introductory survey of whole earth geophysics through theory and practice. The theory portion of the course covers seismology (techniques in reflection and refraction seismology), geothermics, radioactive dating, surface processes, tectonics, orogenics, gravity and gravimetric techniques, electrical and magnetic surveys, and borehole logging. The practical component of the course includes the utilization of several of these methods to study subsurface environments. Lecture two hours, laboratory two hours. Prerequisites OR corequisites: one introductory geology course (GLY 1101, GLY 1102, GLY 1103, GLY 1104, GLY 1105, or GLY 1510) plus PHY 1103 (or PHY 1150), and MAT 1110, or permission of the instructor. (Same as PHY 3160.)

GLY 3220. Fundamentals of Mineralogy (3).F.

The course focuses on (1) mineral identification and classification, (2) crystal chemistry, (3) X-ray diffraction, (4) analytical electron microscopy (SEM-EDS), and (5) the petrographic microscope. Lecture two hours, laboratory three hours. Prerequisite: GLY 2250 or consent of the instructor.

GLY 3333. Geomorphology (3).F.

This course includes a study of the nature of landforms. Qualitative and quantitative aspects of landform analysis in the field and laboratory using maps and aerial photographs are introduced. Prerequisites: at least six hours of geology courses or consent of the instructor. Lecture two hours, laboratory three hours. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

GLY 3500. Independent Study (1–4).F;S.

GLY 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the University level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. (SPEAKING)

GLY 3521. Secondary Science Field Experience (1).F;S.

A supervised experience in the instructional process at the secondary school level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all teacher-licensure candidates in geology.

GLY 3530–3549. Selected Topics (1–4). On Demand.

GLY 3680. Geoarchaeology (3).S.

The course focuses on fundamental concepts in geoarchaeology and covers the application of earth science concepts, techniques and knowledge to the study of artifacts and the processes involved in the formation of the archaeological record. Preservation of paleoclimate signals in the geological record is considered. Case studies will consider specific North American and global examples. Prerequisite: four semester hours of geology or permission of the instructor.

GLY 3703. Issues in Environmental Geology (3).S.

An in-depth study of critical issues in environmental geology on a regional and global scale. Topics to be covered include: natural hazards, water, mineral and energy resources, and related waste disposal problems under pressures of increasing human population and changing climate. This course will make use of case studies to illustrate specific examples. Lecture three hours. Prerequisite: one year sequence in natural science, e.g., BIO 1101 and BIO 1102; GLY 1101-GLY 1102; PHY 1103-PHY 1104; or CHE 1101, CHE 1110 and CHE 1102, CHE 1120.

GLY 3715. Petrology and Petrography (3).S.

This course includes a study of the microscopic, mesoscopic, and macroscopic features; the mineralogy, and the chemistry of rocks; and the study of petrogenetic theory. Prerequisites: CHE 1101 and CHE 1110; GLY 2250, GLY 2745, and GLY 3220. Lecture two hours, laboratory three hours. (WRITING)

GLY 3800. Introduction to Stratigraphy and Sedimentology (3).S.

Properties, classification, and depositional models of sedimentary rocks. Principles of stratigraphy and interpretation of stratigraphic data will be studied with an emphasis on field relationships and applications. Lecture two hours, laboratory three hours. Prerequisite: GLY 2250.

GLY 4210. Geology Seminar (1).S.

GEN ED: Capstone Experience

Presentation and discussion of current topics, with emphasis on student projects, petrology, and surficial processes. Prerequisite: senior standing geology major.

GLY 4501. Senior Research (1).F;S.

Initiation of a laboratory or field research project under supervision of a geology faculty member. At least one semester prior to the start of the research project, the student must formally confer with a thesis advisor, submit and have approved a formal research proposal. Prerequisite: open only to senior geology majors with a minimum GPA of 3.25 in geology courses.

GLY 4510. Senior Honors Thesis (3).F;S.

Work, under the supervision of a geology faculty member, on the project begun in GLY 4501 (Senior Research). An oral report on the project is required and will be presented in a fall or spring geology seminar. This course also requires a minimum of five hours laboratory or field work per week. A written thesis will be presented to the department. A student who completes the thesis with a grade of "B" or higher and who graduates with a GPA of 3.5 in geology courses will be eligible to graduate with "honors" in geology. A student who completes the thesis with a grade of "A" and who graduates with a GPA of at least 3.7 in geology courses will be eligible to graduate with "highest honors" in geology. Prerequisite: GLY 4501; senior geology majors with a minimum GPA of 3.25 in geology courses. (WRITING)

GLY 4630. Hydrogeology (3).F.

The occurrence of groundwater resources, factors governing groundwater movement through aquifers, and an analysis of techniques for measuring a water resource are the focus of this course. Groundwater contamination and remediation methods will be introduced. Lecture two hours, laboratory three hours. Prerequisites: at least junior standing and a minimum of six semester hours of geology courses above the 1000 level, or permission of the instructor. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with GLY 5630.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GLY 4705. Advanced Environmental and Engineering Geology (3).S.

GEN ED: Capstone Experience

Field and laboratory analysis of problems arising from interactions between humans and Earth and application of geologic knowledge to the mitigation of these problems. Lecture two hours, laboratory three hours. Prerequisites: at least junior standing and a minimum of six semester hours of geology courses above the 1000 level, or permission of the instructor. [Dual-listed with GLY 5705.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GLY 4835. Summer Field Geology (6).SS.

An intensive five to six week practicum in making geologic maps, measuring sections, and using other field techniques. Prerequisites: GLY 3150, GLY 3715, and GLY 3800. [Dual-listed with GLY 5835.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of Government and Justice Studies (PS/CJ/PA)

Brian A. Ellison, Chair

Kathleen M. Simon, Assistant Chair

Phillip J. Ardoin

James F. Barnes

Carrie Blanchard

Mark D. Bradbury

Mona R. Brandon

Craig M. Burnett

Tammatha A. Clodfelter

George Ehrhardt

Robert D. Eskridge

Todd K. Hartman

Rhys A. Hester

Jefferson Holcomb

Yongbeom Hur

Ellen M. Key

Andrew M. Koch

Nancy S. Love

Jesse L. Lutabingwa

Catherine D. Marcum

Kenneth L. Mullen

Daniel S. Murphy

Adam Newmark

Elicka S.L. Peterson

William H. Post

Michael R. Potter

Tara N. Richards

Penny A. Robinette-Taylor

Matthew B. Robinson

Tatyana Ruseva

Curtis R. Ryan

Renee G. Scherlen

Ruth Ann Strickland

Emmanuel Ike Udogu

Marian R. Williams

Barbara H. Zaitzow

The purposes of the Department of Government and Justice Studies are to prepare students to critically observe, analyze, and understand the complex political world in which they live; to prepare students to recognize and address the problems of our society which affect our governmental and criminal justice systems; and to encourage students to become knowledgeable, active citizens who play a role in the political processes of the nation and the world.

The Bachelor of Arts degree in Political Science (271A/45.1001)

The program of study is available at: www.programsofstudy.appstate.edu/political-science-ba-271a-2012-2013

The Bachelor of Science degree in Political Science (non-teaching) (272*/45.1001)

For the Bachelor of Science degree in Political Science, students must select one of the following concentrations:

American Politics concentration (272C)

The program of study is available at: www.programsofstudy.appstate.edu/political-science-bs-american-politics-272c-2012-2013

International and Comparative Politics concentration (272D)

The program of study is available at: www.programsofstudy.appstate.edu/political-science-bs-international-and-comparative-politics-272d-2012-2013

Pre-Professional Legal Studies concentration (272J)

The program of study is available at: www.programsofstudy.appstate.edu/political-science-bs-pre-professional-legal-studies-272j-2012-2013

Public Administration concentration (272K)

The program of study is available at: www.programsofstudy.appstate.edu/political-science-bs-public-administration-272k-2012-2013

The Bachelor of Science in Criminal Justice (BSCJ) degree (220A/43.0104) (without a concentration)

The program of study is available at: www.programsofstudy.appstate.edu/criminal-justice-bscj-220a-2012-2013

The Bachelor of Science in Criminal Justice (BSCJ) degree (220*/43.0104) with a concentration in International Studies (220B)

The program of study is available at: www.programsofstudy.appstate.edu/criminal-justice-bscj-international-studies-220b-2012-2013

A minor in Criminal Justice (220/43.0104) consists of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/criminal-justice-minor-220-2012-2013

A minor in Political Science (271/45.1001) consists of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/political-science-minor-271-2012-2013

Honors Program in Political Science or Criminal Justice

The Department of Government and Justice Studies maintains honors programs in Political Science and in Criminal Justice to provide qualified students the opportunity for advanced research in a seminar atmosphere. At the freshman level, the Department of Government and Justice Studies participates in the campus wide honors program for eligible new students, offering honors sections of a variety of introductory and upper division courses on a rotating basis.

Eligibility for Honors in Political Science - Classes in the honors program in Political Science will be open to all Political Science majors (both BA and BS students) who have achieved an overall grade-point average of 3.25 by their junior year, or who have been recommended to the honors program by the honors committee or by the director of the honors program. To graduate with "honors in political science" a student must complete at least 10 semester hours of honors courses in Political Science at the junior or senior level, 1 hour of which will be PS 4509 (Honors Thesis Preparation, graded on an S/U basis), 3 hours of which will be PS 4510 (Senior Honors Thesis), and must have achieved a 3.45 GPA in Political Science courses and at least a "B" or better in honors courses. To graduate with "highest honors in political science" a student must complete 10 semester hours of course work (including PS 4509 and PS 4510) with a 3.65 GPA in Political Science courses and a grade of "A" in honors courses. Students may substitute one Criminal Justice honors course (maximum three hours) in the place of a Political Science honors course with the approval of the Honors Director (the substituted class will count in the GPA calculation).

Eligibility for Honors in Criminal Justice - Classes in the honors program in Criminal Justice will be open to all Criminal Justice majors who have achieved an overall grade-point average of 3.25 by their junior year, or who have been recommended to the honors program by the honors committee or by the director of the honors program. To graduate with "honors in criminal justice" a student must complete at least 10 semester hours of honors courses in Criminal Justice at the junior or senior level, 1 hour of which will be CJ 4509 (Honors Thesis Preparation, graded on an S/U basis), 3 hours of which will be CJ 4510 (Senior Honors Thesis), and must have achieved a 3.45 GPA in Criminal Justice courses and at least a "B" or better in honors courses. To graduate with "highest honors in criminal justice" a student must complete 10 semester hours of course work (including CJ 4509 and CJ 4510) with a 3.65 GPA in Criminal Justice courses and a grade of "A" in honors courses. Students may substitute one Political Science honors course (maximum three hours) in the place of a Criminal Justice honors course with the approval of the Honors Director (the substituted class will count in the GPA calculation).

Graduate Programs

The Department of Government and Justice Studies offers the Master of Arts in Political Science, the Master of Public Administration, and the Master of Science in Criminal Justice and Criminology degrees. Persons interested in these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Political Science (PS), Criminal Justice (CJ), and Public Administration (PA)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

POLITICAL SCIENCE HONORS (PS)

PS 3510. Junior/Senior Honors Seminar (3).F;S.

An intensive study of a selected topic in political science. Course content will be determined by the instructor. The course will satisfy one of the area requirements for political science majors. Enrollment by invitation of the honors committee. Course may be repeated for credit.

PS 4509. Honors Thesis Preparation (1).On Demand.

Preparation for the honors thesis. Graded on an S/U basis.

PS 4510. Senior Honors Thesis (3).F;S.

An opportunity for undergraduates to perform independent research on a topic of their choosing, with the approval of the honors committee. Work will be supervised by a member of the political science faculty. Feedback will be provided as the honors thesis develops. Enrollment is limited to qualified political science majors. Prerequisite or corequisite: PS 4509. (WRITING)

POLITICAL SCIENCE (PS)

PS 1100. American National Government and Politics (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "This American Life")

A study of the development and operation of the American national government, its powers, organization and policies. (CORE: SOCIAL SCIENCES)

PS 1200. Current Political Issues (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Democracy and Personal Life")

A study of the current political issues and problems facing the national government. Problems in such areas as labor, education, the economy, agriculture, equal rights, foreign relations and national security will be analyzed. Not open to students with credit for PS 1201. (CORE: SOCIAL SCIENCES)

PS 1201. Contemporary Political Controversies (3).On Demand.

An examination of some leading controversies in politics from the perspective of the conflicting arguments, designed to foster understanding of the issues and to enhance critical thinking and speaking skills. Intended primarily for students majoring or minoring in political science. Not open to students with credit for PS 1200. (SPEAKING) (CORE: SOCIAL SCIENCES)

PS 2120. International Politics and Foreign Policy (3).F.

An introduction to the study of international politics and foreign policy. Students will be introduced to a variety of analytical approaches to the study of global relations, including the participant, the systemic, the perceptual, and the instrumental frameworks. Students will be exposed to the complexities of international affairs and global relations which are the result of the confluence of historical, geographical, economic, cultural, and political factors. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

PS 2130. State and Local Government (3).F;S.

An examination of the organization, problems and powers of state and local governments in the United States, focusing upon the responses of states, counties, and municipalities to needs caused by poverty, growth, and social change. (CORE: SOCIAL SCIENCES)

PS 2160. Introduction to Public Administration (3).F;S.

A general survey course aimed at introducing the student to the theory and practice of public administration. The course includes an introduction to organization theory, personnel and financial administration, and administrative responsibility. The principal focus is on American public administration, but some comparisons and illustrations from other administrative systems are included.

PS 2240. Comparative Politics (3).F;S.

An examination of political system challenges and development patterns, with comparative reference to a number of systems including the Former Soviet Union, Britain, France, and selected African, Asian, and Latin American countries. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

PS 2500. Independent Study (1–3).F;S.

PS 2610. Asian Politics (3).On Demand.

This course surveys the politics of East and Southeast Asia. It focuses on the experiences of everyday people dealing with political worlds different from our own. The readings include a mix of fictional and scholarly writing.

PS 3001. Writing in Political Science (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course concentrates upon different writing traditions within political science. It requires students to apply the rhetorical knowledge gained in previous writing courses to the discipline of political science. Students will be expected to read and analyze texts in one or more of the sub-disciplines of political science as well as write effectively in one or more of the writing traditions of political science (e.g., research paper, policy analysis, briefing memo, text review). In addition to effective communication, the course emphasizes critical thinking, local to global connections, and community responsibility within the context of political science. Prerequisites: ENG 2001 or its equivalent and must be majoring in political science. (WRITING)

PS 3110. Political Theory Through Sixteenth Century (3).F. Alternate even-numbered years.

An examination of political theory from approximately 300 B.C. through the sixteenth century. The political philosophers studied include Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Jean Bodin. Emphasis is placed on historical development of political philosophy. (CROSS-DISCIPLINARY)

PS 3115. Research Methods (4).F;S.

An introduction to the logic and techniques of social science research with computer applications, examination of the structure of scientific inquiry, methods utilized to analyze information, with emphasis placed upon the interpretation of that information. Lecture three hours, laboratory two hours. Required of all PS and CJ majors. Prerequisite: STT 1810 or the equivalent. (Same as CJ 3115.) (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PS 3121. International Terrorism (3).S.

This course introduces the student to the characteristics of international terrorism, the causes of terrorism, and the control of terrorism. Throughout, students are presented key concepts to which they can refer for analyzing the future of international terrorism. (Same as CJ 3121.)

PS 3130. American Political Parties and Interest Groups (3).F.

A study of the organization, tactics and functions of political parties and interest groups. A comparison of goals and methods of influencing public policy ranging from the normal to the revolutionary. Campaigning techniques discussed.

PS 3150. Constitutional Law (3).F.

This course is designed to introduce students to the role of the courts (particularly the U.S. Supreme Court) as instruments of change in the United States. The course will examine the powers of the judiciary and the limitations placed on the exercise of the courts' powers. The courts and their role as interpreters of the Constitution will be seen primarily through an examination of Supreme Court decisions. (WRITING)

PS 3210. Political Theory From the Seventeenth Century to the Present (3).S. Alternate odd-numbered years.

A study of political thought from the seventeenth century to the present. Political philosophers studied include Hobbes, Locke, Rousseau, Burke, Hegel, Bentham, Marx, and Lenin. Emphasis is placed on the development of nationalism, capitalism, communism, socialism, and fascism. (CROSS-DISCIPLINARY)

PS 3230. American Legislative Politics (3).S.

An examination of the structure, functions and behavior of Congress and state legislatures, with emphasis on how composition, leadership, constituency role orientations and interest groups actively influence public policy. The legislative institutions are also viewed in relationship to larger environments and inclusive political systems.

PS 3280. Public Policy Analysis (3).F.

A study of the policy-making process, with special attention to the various factors that influence policy choices in the American government and an examination of the procedures for evaluating actual and alternative public policy programs. (WRITING)

PS 3310. Political Ideologies (3). On Demand.

A survey of the central ideas of various philosophers from the early Enlightenment to the late Twentieth Century. Special emphasis will be given to a breadth of political ideas and ideologies, stressing the direct relationship between concepts and political life. (SPEAKING; MULTI-CULTURAL)

PS 3320. Global Conflict and Mediation: The UN (3).F.

This course introduces students to the United Nations and its role in global conflict and mediation. Topics include basic facts about the United Nations institutions and functions, as well as the competing positions of various countries within the United Nations on specific issues. (WRITING; SPEAKING; MULTI-CULTURAL)

PS 3330. Urban Politics (3).S.

A focus upon politics in urban areas. Topics include the problems of urban government, politics within metropolitan areas, community power structures, and decision-making structures.

PS 3410. Marxism (3). On Demand.

GEN ED: Historical and Social Perspective (Theme: "Capitalism and Its Critics")

Explores the basic principles and features found within Marxist thought. This includes some discussions of Marx's immediate predecessors such as Hegel and Feuerbach in post-Marxist socialist and communist literature. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

PS 3500. Independent Study (1–3).F;S.

PS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

PS 3530-3549. Selected Topics (1–4). On Demand.

PS 3630. Appalachian Politics (3). On Demand.

An examination of the fundamental political problems and possibilities for the people in the Appalachian Region. The interrelationships of Appalachia with the larger American political system, political culture, and economy will also be studied.

PS 3660. Administrative Law (3).F.

A study of the administrative powers and procedures in the United States and of the relevant experiences of some other democracies such as Britain, France with special attention to the legal and administrative methods of achieving a responsible bureaucracy and of balancing public interest with private rights.

PS 3722. America in the World (3).S.

GEN ED: Historical and Social Perspective (Theme: "This American Life")

The course provides students with the foundation to understand the historical and contemporary practice of U.S. foreign policy and familiarizes them with patterns of continuity and change in U.S. foreign policy. (WRITING; SPEAKING)

PS 3888. Diversity in Justice and Public Affairs (3).F.

Critically examines race/ethnicity, gender, religion, sexual orientation, physical or mental ability and other diversity issues within criminal justice, and public affairs. This includes perspectives analyzing human rights, biological diversity, philosophical ethics, linguistic diversity, cultural diversity, and other relevant differences. (Same as CJ 3888.) (MULTI-CULTURAL)

PS 4175. Public Opinion (3).F.

An examination of attitude and opinion formation within and among publics; the role and impact of government secrecy on opinion; and a study of media as influence mechanisms.

PS 4220. Globalization (3).S. Alternate years.

Examines the interactions of politics, economic trends and business actions as they create patterns of international stability, crisis, and change. (Same as ANT 4220.)

PS 4225. International Security (3).S.

This course examines the diverse theoretical perspectives within international relations and security studies. The class analyzes each of these perspectives critically, to evaluate their strengths and weaknesses, and to help students formulate their own understanding and explanation of the dynamics of global politics and international security.

PS 4230. The Presidency and the Executive Branch (3).F.

An examination of the central role of the American presidency in the political process. Emphasis is given to contemporary responsibilities of the President and of the major agencies supporting the President. (WRITING)

PS 4370. Political Psychology (3).On Demand.

This course will explore a diverse set of topics, such as: how intergroup relations play out in politics; what impact emotion has in formulating (rational) policy preferences; and whether relatively stable characteristics such as authoritarianism and social dominance orientation alter how actors think and behave in the political world. The goal of the course is to encourage students to think critically about the material and to gain an appreciation for interdisciplinary research.

PS 4530–4549. Selected Topics in Political Science (1–4). On Demand.

An intensive examination of selected topics.

PS 4550. Law and Society (3).S.

An examination of the relationship between the values and culture of a society and the laws which it adopts and how law interacts with and responds to change in social values as seen by the courts through selected cases. Prerequisite: junior or senior standing, or permission of the instructor. (Same as CJ 4550.) (WRITING; SPEAKING) [Dual-listed with PS 5550/CJ 5550.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4640. Studies in Regional Political Patterns (1–3). On Demand.

An examination of selected regions of the world which have common historical and cultural patterns influencing their political styles and capabilities. Topics may vary from semester to semester. Prerequisite: junior or senior standing, or permission of the instructor. [Dual-listed with PS 5640.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4661. Court Administration (3). On Demand.

This course is designed to familiarize students with the need for, and approaches to, more effective management of federal and state courts. Topics include court reform, court unification, caseload management, alternative dispute resolution, personnel management and training, and audio-visual applications in the courts, among others. Prerequisite: junior or senior standing, or permission of the instructor. (Same as CJ 4661.) (SPEAKING) [Dual-listed with PS 5661/CJ 5661.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4670. Environmental Politics (3).S.

This course will examine the role that politics and government play in dealing with environmental issues. Its focus is primarily on the U.S. approach to environmental protection, but some attention will be devoted to international environmental relationships such as the Kyoto Protocol. The course will cover the history of environmental policy, the legal and institutional arrangements for environmental protection, major environmental policy actors, current environmental controversies, and global environmental concerns.

PS 4680. Organized Crime (3).F. Alternate years.

This course will provide an examination and analysis of views on the phenomena of organized crime and efforts to control it. Attention will be paid to criminal organizations in the United States, their beginnings in other cultural and ethnic backgrounds and their relations with criminal organizations around the world. In today's world, criminal organizations in other countries and their activities have a major impact on crime in the United States. Therefore, a comparative approach to the subject must be used. Prerequisite: junior or senior standing, or permission of the instructor. (Same as CJ 4680.) [Dual-listed with PS 5680/CJ 5680.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4710. American Political Thought (3). On Demand.

A survey of the diverse political ideas represented in the American state from the colonial period to the present. Special emphasis is given to the political problems that emerge with the process of industrialization and the movement into a postindustrial economy. Prerequisite: junior or senior standing, or permission of the instructor. (CROSS-DISCIPLINARY) [Dual-listed with PS 5710.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4721. Human Rights (3). On Demand.

The course surveys the major literature in the field of international human rights. It investigates the questions of ethics, morality and the practice of human rights globally and attempts to address why the issue of international human rights has come to the fore in international politics. [Dual-listed with PS 5721.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4723. International Political Economy (3).F. Alternate years.

An examination of the relationship between political and economic activity, the way actors use one to manipulate the other, and the normative choices involved in doing so. Prerequisite: junior or senior standing, or permission of the instructor. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) [Dual-listed with PS 5723.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4741. European Governments and Politics (3).S. Alternate years.

An examination of patterns of governmental organization and socioeconomic policy outcomes in the democracies of Europe as a basis for comparative analysis. Major issues confronting the democracies will be studied for possible options and comparisons of policy. Prerequisite: junior or senior standing, or permission of the instructor. (MULTI-CULTURAL) [Dual-listed with PS 5741.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4742. Politics of Developing Nations (3).F. Alternate years.

Focuses on the efforts of a majority of the world's governments to meet the twin challenges of participatory politics and of the Global market economy. Prerequisite: junior or senior standing, or permission of the instructor. [Dual-listed with PS 5742.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4743. The European Union (3).S. Alternate years.

The emergence of the European Union is one of the major events in European history. The course explores the genesis and evolution of the idea of European integration and chronicles its organizational development in the post WWII era. Emphasis is placed on the politics of integration and the emergence of the Union as a major participant in world events. (WRITING; MULTI-CULTURAL) [Dual-listed with PS 5743.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4744. Middle East Politics (3).S.

An examination of the political, cultural, economic and social patterns of the Middle East. Prerequisite: junior or senior standing, or permission of the instructor. [Dual-listed with PS 5744.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4745. African Politics (3). On Demand.

The course begins with the historical context of African politics. Then, it explores the problems of governance following independence and discusses the contemporary debate between two contending schools of thought in African politics and development: Afro-optimism and Afro-pessimism. It examines Africa's relations with developing and developed countries as well. [Dual-listed with PS 5745.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4748. Latin American Politics (3).S. Alternate years.

Examines Latin American politics in detail covering historical context, political actors, and current issues in Latin America. Prerequisite: junior or senior standing, or permission of the instructor. (WRITING; SPEAKING; MULTI-CULTURAL) [Dual-listed with PS 5748.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PS 4800. Political Science Capstone (1).F;S.

GEN ED: Capstone Experience

The capstone course offers students an opportunity to synthesize the knowledge, approaches, and results from political science with the foundation established in the general education program through participation in a department-wide student paper competition. Students select a paper previously written in a political science class, revise it based upon faculty and fellow student input, and then submit the paper for consideration by the political science faculty, who will award prizes for "Best Paper in Political Science" as well as runner-ups. Prerequisite: must be majoring in political science.

PS 4900. Internship in Public Affairs (3-12).F;S.

Field work in government, community, professional offices and agencies and involvement in problem solving in these offices and agencies. Graded on an S/U basis. Prerequisite: senior standing (or 90 semester hours of coursework). (WRITING)

CRIMINAL JUSTICE HONORS (CJ)

CJ 4509. Honors Thesis Preparation (1).On Demand.

Preparation for the honors thesis. Graded on an S/U basis.

CJ 4510. Senior Honors Thesis (3).F;S.

An opportunity for undergraduates to perform independent research on a topic of their choosing, with the approval of the honors committee. Work will be supervised by a member of the criminal justice faculty. Feedback will be provided as the honors thesis develops. Enrollment is limited to qualified criminal justice majors. Prerequisite or corequisite: CJ 4509. (WRITING)

CRIMINAL JUSTICE (CJ)

CJ 1100. Introduction to Criminal Justice (3).F;S.

A study of the development and operation of the criminal justice system in the United States. Included will be an examination of the components which make up the criminal justice system, their roles and responsibilities as a part of the system. Prerequisite for CJ 2120, CJ 2150 and CJ 2430, or consent of the instructor.

CJ 2120. Police Process (3).F;S.

An examination of social and historical settings of the police; police role and career; police discretion; police values and culture; organization and control. Prerequisite: CJ 1100 or consent of the instructor.

CJ 2150. The Judicial Process (3).F;S.

An examination of the preadjudication and adjudication stages of the criminal process, the persons involved in the process, and the forces that influence the actions of the decision makers. Prerequisite: CJ 1100 or consent of the instructor. (WRITING)

CJ 2430. Corrections (3).F;S.

The course provides a comprehensive overview of the origins of correctional systems in the United States and abroad and an introduction to the philosophical ideas with which specific correctional approaches are associated. Includes an assessment of organization and theory of correctional systems, institutional operations, management of inmates and staff, programmatic possibilities, alternatives to incarceration, and current and future issues. Prerequisite: CJ 1100 or permission of the instructor.

CJ 2500. Independent Study (1-3).F;S.

CJ 3001. Writing in Criminal Justice (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course will continue with the writing skills developed from the first and second year writing courses, but will focus on specific issues and writings within criminal justice. In addition to writing (effective communication), the course will emphasize critical thinking, community responsibility within the context of criminal justice, and local to global connections. Prerequisite: ENG 2001 or its equivalent. (WRITING)

CJ 3050. American Legal Systems (3).S.

An overview of the development of law and law as an instrument of social control; an examination of the different types of law and the nature of each; the framework within which the American legal systems operate; an examination of the basic terminology of law and legal concepts; how to use library resources and apply legal research techniques dealing with the study of case, legislative and administrative law. This course is designed especially for students with pre-law or paralegal interests and complements the upper division substantive law courses. (WRITING)

CJ 3110. Crime and Culture (3).S.

This course examines the images of crime and the criminal justice system as depicted through film, music, and literature.

CJ 3115. Research Methods (4).F;S.

An introduction to the logic and techniques of social science research with computer applications, examination of the structure of scientific inquiry, methods utilized to analyze information, with emphasis placed upon the interpretation of that information. Lecture three hours, laboratory two hours. Required of all PS and CJ majors. Prerequisite: STT 1810 or the equivalent. (Same as PS 3115.) (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

CJ 3121. International Terrorism (3).S.

This course introduces the student to the characteristics of international terrorism, the causes of terrorism, and the control of terrorism. Throughout, students are presented key concepts to which they can refer for analyzing the future of international terrorism. (Same as PS 3121.)

CJ 3250. Juvenile Justice (3).F.

Legal and philosophical basis for a separate juvenile justice system, with a focus on juvenile rights and will include such topics as the police role in delinquency, due process, venue, adjudication and disposition hearings, and confidentiality in the juvenile process.

CJ 3400. Theories of Crime and Justice (3).F;S.

The course considers the underlying causes of crime and the social responses of justice, two constructs which transcend the boundaries of any one discipline or field of study. The course approaches the subject matter from a cross-disciplinary perspective. Explanations of crime causation from the perspectives of biology, psychology, sociology, political science, economics, and anthropology are presented, discussed, and evaluated. (CROSS-DISCIPLINARY)

CJ 3405. Forensic Investigation (3).S.

Principles and techniques involved in the investigation of crimes; interview of victims and witnesses; questioning of suspects; organization and procedure in the investigation of crime scenes; the use of scientific aids within investigations.

CJ 3450. Injustice in America (3).On Demand.

An assessment of the ideals and realities of American criminal justice processes, including law-making, policing, judicial process, correctional punishment, and media coverage of crime and criminal justice. The course takes a critical approach to criminal justice, focusing on the degree to which the realities of criminal justice practice match the theoretical ideals.

CJ 3500. Independent Study (1–4).F;S.

CJ 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

CJ 3530–3549. Selected Topics (1–4). On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the criminal justice curriculum. May be repeated for credit when content does not duplicate.

CJ 3551. Criminal Law (3).F;S.

An introduction to the basic concepts of criminal law, definition of crime and defenses, function and purposes of substantive criminal law, limits of the criminal law, case study approach.

CJ 3552. Criminal Procedure (3).S.

An analysis of constitutional limitations from arrest to release in the administration of criminal justice, including arrest, search and seizure, interrogation, identification procedures, and post conviction relief, case study approach.

CJ 3888. Diversity in Justice and Public Affairs (3).F.

Critically examines race/ethnicity, gender, religion, sexual orientation, physical or mental ability and other diversity issues within criminal justice, and public affairs. This includes perspectives analyzing human rights, biological diversity, philosophical ethics, linguistic diversity, cultural diversity, and other relevant differences. (Same as PS 3888.) (MULTI-CULTURAL)

CJ 4450. The Death Penalty (3).On Demand.

A critical analysis of capital punishment history, law, and practice in the United States. Special focus is placed on empirical studies of capital punishment as they relate to the efficacy of the sanction.

CJ 4530–4549. Selected Topics in Criminal Justice (1–4). On Demand.

An intensive examination of selected topics.

CJ 4550. Law and Society (3).S.

An examination of the relationship between the values and culture of a society and the laws which it adopts and how law interacts with and responds to change in social values as seen by the courts through selected cases. Prerequisite: junior or senior standing, or permission of the instructor. (Same as PS 4550.) (WRITING; SPEAKING) [Dual-listed with CJ 5550/PS 5550.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CJ 4620. Contemporary Police Issues (3).F. Alternate years.

An examination of current social, legal, and organizational issues in contemporary law enforcement. Prerequisite: junior or senior standing, or permission of the instructor.

CJ 4661. Court Administration (3). On Demand.

This course is designed to familiarize students with the need for, and approaches to, more effective management of federal and state courts. Topics include court reform, court unification, caseload management, alternative dispute resolution, personnel management and training, and audio-visual applications in the courts, among others. Prerequisite: junior or senior standing, or permission of the instructor. (Same as PS 4661.) (SPEAKING) [Dual-listed with CJ 5661/PS 5661.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CJ 4680. Organized Crime (3).F. Alternate years.

This course will provide an examination and analysis of views on the phenomena of organized crime and efforts to control it. Attention will be paid to criminal organizations in the United States, their beginnings in other cultural and ethnic backgrounds and their relations with criminal organizations around the world. In today's world, criminal organizations in other countries and their activities have a major impact on crime in the United States. Therefore, a comparative approach to the subject must be used. Prerequisite: junior or senior standing, or permission of the instructor. (Same as PS 4680.) [Dual-listed with CJ 5680/PS 5680.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CJ 4900. Internship in Criminal Justice (3-12).F;S.

GEN ED: Capstone Experience

Field work in a criminal justice agency, office, or institution. This course offers the student the opportunity to synthesize the knowledge, approaches, and theories of the criminal justice discipline. At least three of the following four general educational goals will be addressed: thinking critically and creatively, communicating effectively, understanding responsibilities of community membership, and making global to local connections. Graded on an S/U basis. Prerequisite: senior standing (or 90 semester hours of coursework). (WRITING; SPEAKING)

PUBLIC ADMINISTRATION (PA)

PA 4560. Local Government Administration (3).S.

Administrative process, management, personnel, budget and finance, and intergovernmental relations in local government. Prerequisite: junior or senior standing, or permission of the instructor. [Dual-listed with PA 5560.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PA 4665. Public Management (3).S.

A study of the organization and operation of government agencies and their role in policy making and implementation and an examination of the various concepts and theories pertaining to administrative behavior and to the performance of the basic tasks of management. Prerequisite: junior or senior standing, or permission of the instructor. (WRITING; SPEAKING) [Dual-listed with PA 5665.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of History (HIS)

Lucinda McCray, Chair

Edward J. Behrend-Martinez, Assistant Chair

Michael C. Behrent

Antonio T. Bly

Jeffrey L. Bortz

Rennie W. Brantz

Judkin J. Browning

Birsen Bulmuş

Andrea A. Burns

Craig H. Caldwell

Karl E. Campbell

Anthony G. Carey

Jari Eloranta

Lynne M. Getz

James R. Goff, Jr.

René Harder Horst

Anatoly V. Isaenko

W. Scott Jessee

Jeremiah M. Kitunda

Michael L. Krenn

Myra L. Pennell

Sheila R. Phipps

Timothy H. Silver

Neva J. Specht

Bruce E. Stewart

Michael J. Turner

Mary A. Valante

Michael G. Wade

Benno R. Weiner

Jason C. White

The study of history is an essential part of a liberal arts education and provides valuable skills for careers in a wide range of professions, including law, journalism, public service, and business. Embracing a range of topics as broad as the human experience (economics, politics, culture, society, business, war, race and gender), history examines change over time through a series of investigative, analytical and expository techniques that comprise the historical method. The teaching of history focuses on research in sources, analysis and synthesis of evidence, problem solving, critical thinking, and understanding social processes. Accordingly, the skills embodied in historical method have wide application in the world of professional work.

The History Department teaches general education, undergraduate, and graduate courses offering a broad curriculum in local, national, regional, and world history. It has particular strengths in American, European, Asian, Latin American, and public history. The diversity of offerings discourages parochialism and encourages history majors to develop a sophisticated, comparative approach to human problems. Specialization within the major promotes an appreciation of the depth and complexity of human history. Finally, the discipline of history provides an intellectual challenge as well as a stimulus to the imagination and to analytical thinking.

Undergraduate Advisement Office

Information about history department programs can be obtained from the Undergraduate Advising Coordinator. Please contact the Department of History to find out when the Coordinator is available to assist students with academic scheduling, explain departmental and University requirements, and provide descriptions of new and existing courses and information on career development.

The Bachelor of Arts degree in History (254A/54.0101)

The program of study is available at: www.programsofstudy.appstate.edu/history-ba-254a-2012-2013

The Bachelor of Science degree in History (non-teaching) (246*/54.0101) with a concentration in Applied and Public History (246B)

The program of study is available at: www.programsofstudy.appstate.edu/history-bs-applied-and-public-history-246b-2012-2013

The Bachelor of Science degree in History (non-teaching) (246*/54.0101) with a Multidisciplinary concentration (246C)

The program of study is available at: www.programsofstudy.appstate.edu/history-bs-multidisciplinary-246c-2012-2013

The Bachelor of Science degree in History, Social Studies Education (116A/13.1328) [T] (with teacher licensure)

The program of study is available at: www.programsofstudy.appstate.edu/history-social-studies-education-bs-116a-2012-2013

All BS programs are to be planned in consultation with the undergraduate advisor in the Department of History and are subject to the advisor's approval. Students are urged to plan their programs as early as possible in their academic careers, but not later than three semesters before anticipated graduation.

Academic Concentration in History

For programs mandating a second academic concentration, the academic concentration in history will consist of 24 semester hours distributed as follows: HIS 1101, HIS 1102, HIS 2201, HIS 2204, HIS 3728, 6 semester hours of electives in African, Asian, Latin American, or Middle Eastern History, and 3 semester hours of electives in United States or European History at the 3000 or 4000 level. Students should consult their academic advisor.

Minor in History (246/54.0101)

The History minor consists of 18 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/history-minor-246-2012-2013

Honors Program in History

The department offers honors courses on all undergraduate levels which are open to students who have distinguished themselves. Honors courses carry full credit toward the major or, for non-majors, full elective credit. Subject to the recommendation of the departmental honors committee, a student will be considered for graduation with "honors in history" upon successful completion of at least one semester of honors work in world civilization or American civilization, one junior honors seminar and a senior honors thesis, and an examination. Those meeting these requirements with the grade "A" will be considered for graduation with "highest honors in history."

Master of Arts Degrees in History

The Department of History offers: a Master of Arts degree in History with concentrations in General History, Historic Preservation, and Public History; and a Master of Arts degree in History, Education with a concentration in Secondary School Teaching. Persons interested in these programs are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in History (HIS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

HISTORY HONORS (HIS)

HIS 1510. Freshman Honors World Civilization I (3).F.

Study of topics in world history to 1650. Enrollment by invitation of the department or by application. Substitutes for HIS 1101. (WRITING; MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1515. Freshman Honors World Civilization II (3).S.

Study of topics in world history since 1650. Enrollment by invitation of the department or by application. Substitutes for HIS 1102. (WRITING; MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1520. Honors: Patterns of Global History (3).F;S.

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Regions in Global Context")

An honors course examining selected themes in global history with an emphasis on the historical context of global issues, processes, trends, and systems as they have affected local regions. HIS 1520 cannot be repeated for credit and does not count toward the requirements for a History major or minor. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1525. Honors: Problems in Global History (3).F;S.

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Regions in Global Context")

An in-depth examination of selected events, issues, systems, processes, or developments in global history, and their relationship to and effect upon local regions. Particular emphasis will be given to development of critical thinking skills appropriate to historical inquiry. HIS 1525 cannot be repeated for credit and does not count toward the requirements for a History major or minor. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 2510. Sophomore Honors Topics in American Civilization to 1876 (3).F.

A study of topics in American history through post Civil War reconstruction. Enrollment by invitation of the department or application. (Major may substitute for HIS 2201.) (WRITING)

HIS 2515. Sophomore Honors Topics in American Civilization Since 1876 (3).S.

A study of topics in American history from the Gilded Age to the Contemporary Era. Enrollment by invitation of the department or application. (Major may substitute for HIS 2204.) (WRITING)

HIS 3510. Advanced Honors Seminar (3).F;S.

Seminar on a selected historical topic. Enrollment is by invitation of the department, or by application. (WRITING)

HIS 4510. Senior Honors Thesis (1-4).F;S.

Independent study and research for an honors thesis; directed by a member of the history department. Prerequisite: completion of an approved honors sequence, including HIS 3510. Enrollment by qualified applicants only.

HISTORY (HIS)

HIS 1101. World Civilization I (3).F;S.

An introduction to the development of world civilizations from ancient times to 1500. The unique patterns of political, intellectual, economic, and social development of Europe, Asia, and Africa are examined. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1102. World Civilization II (3).F;S.

An introduction to the development of world civilizations from 1500 to the present. The development of an increasingly interdependent political, intellectual, economic, and social world is examined. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1103. Topics in World Civilization (3).F;S.

Variable content. An examination of selected political and cultural themes in world civilization such as gender and family, war, environment, ethnic identity, and the evolution of global society. Emphasis on analytical skills and comparative history. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1110. History and Culture (3).F;S.

GEN ED: Historical Studies Designation; Aesthetic Perspective (Theme: "Traditions and Innovations")

An examination of selected themes in world or regional history with an emphasis on how products of creative expression have shaped, and been shaped by, their historical context. NOTE: HIS 1110 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1120. Society and History (3).F;S.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "Cultural Diversity")

An examination of selected themes in world or regional history with an emphasis on the historical context of various social, political, cultural, and economic processes. NOTE: HIS 1120 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1130. Themes in Global History (3).F;S.

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Regions in Global Context")

An examination of selected themes in global history with an emphasis on the historical context of global issues, processes, trends, and systems as they have affected local regions. NOTE: HIS 1130 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1200. American History (3).F;S.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "This American Life")

This course will acquaint the student with the major developments of American history from pre-contact to post-modern eras. Emphasis will be given to the foundational political experiences of the American people and how political developments have been influenced and affected by social developments. Students will learn to apply analytical skills to the reading of primary texts representing the whole sweep of American history. Written expression will be emphasized. NOTE: HIS 1200 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1300. Introduction to Latin America: History and Society (3).F.

Latin America is a region of diverse peoples and cultures. For the last five hundred years, the peoples of Latin America have struggled to create modern, prosperous societies; most attempts have failed. What unites Latin Americans today is a struggle against mass poverty, gross political violence, and economic underdevelopment. This course will introduce students to Latin America through its current problems and past attempts to resolve them. NOTE: HIS 1300 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL)

HIS 1400. World Empires (3).F;S.

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Empire, Colonialism, and Globalization")

This course investigates how systems of power functioned on a global scale in the past. Students will discover, discuss, and write about how those systems came to be as well as what kind of society, culture, and world they have created. Students will also develop a clearer understanding not only of their individual role in such global interactions, but how events in one distant part of the world affect many other people around the globe. NOTE: HIS 1400 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1501. Revolution and Social Change in World History (3).F;S.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "Revolutions and Social Change")

This course provides an analysis of significant revolutions and social movements in world history. These may be defined as political,

social, cultural, scientific and technological. This course examines the events of these movements, as well as the philosophical/ideological ideas that shaped them. It also examines how these revolutions affected societies in a local and global context, and how they continue to affect the world in which we live today. NOTE: HIS 1501 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 1600. Migration in World History (3).F;S.

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Origins and Migrations")

This course examines the role of human migration in world history. Starting with "peopling the planet" and using topics such as language diversity, diaspora, colonization and immigration, students will explore the dispersal of people, plants, animals, diseases, as well as cultural and technological diffusion. The emphasis is on evaluation of primary and secondary sources, development of analytical skills, and application of methods used in comparative histories clustered around these themes. Students have a semester long project of preparing their own family history that entails using data bases, oral interviews, and narrative writing that puts their own "local" history into the "global" context of the main events of the past century. NOTE: HIS 1600 DOES NOT COUNT TOWARD THE REQUIREMENTS FOR A HISTORY MAJOR OR MINOR. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 2101. The World since 1945 (3).F.

A survey of global developments since 1945 in an historical context, including political changes such as the Cold War and the changing balance of power, decolonization and economic dependency in the non-western world; militarism and terrorism; environmental issues such as resource depletion and pollution; and the internationalization of the world.

HIS 2201. Survey of American Civilization to 1876 (3).F;S.

An examination of United States history to 1876, tracing the American experience from the colonial era through the Civil War and Reconstruction.

HIS 2204. Survey of American Civilization since 1876 (3).F;S.

An examination of United States history since 1876 tracing the American experience from the Gilded Age down to the contemporary era.

HIS 2301. History of Colonial Latin America (3).F.

A survey of Latin America from the ancient Indian civilizations to the wars for independence. Topics include the ancient Maya, Aztec, and Inca Indians; the European discovery, conquest, and colonization of the New World; the colonial administration and exploitation of the Americas; and the independence movements which usher in the national period. (MULTI-CULTURAL)

HIS 2302. History of Modern Latin America (3).S.

A survey of Latin America from independence to the present. Topics include the legacy of independence; the rise of the great dictators; causes of instability and social change; twentieth-century revolutions; and the effects of United States policy in the region. (MULTI-CULTURAL)

HIS 2312. Introduction to the Ancient Mediterranean World (3).F.Even-numbered years.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "Ancient Worlds")

A survey of the Ancient Mediterranean, including Greece, the Hellenistic World, and Rome. Topics covered will include ancient art, philosophy, religion, and literature. (MULTI-CULTURAL) (CORE: SOCIAL SCIENCES)

HIS 2313. The Middle Ages (3).S.

An examination of selected topics in the development of medieval civilization including such themes as the shape of feudal society, the age of Gregorian reform, the flowering of the 12th century, the 13th century synthesis, and crisis and transition in the 14th century.

HIS 2314. European History 1348 to 1799 (3).F.

A survey of European History from the beginning of the Black Death to the French Revolution. Topics include the Renaissance, Reformation, absolutism, sundry wars, the rise of capitalism, Enlightenment, and the French Revolution.

HIS 2315. European History 1789 to present (3).F.

A survey of European History from the French Revolution to the present. Topics include the French Revolution, nationalism, the Industrial Revolution, the Russian Revolution, two world wars and the Cold War in Europe, the fall of the Soviet Union, and globalization.

HIS 2322. History of Traditional China (3).F.Even-numbered years.

The main topics of Chinese civilization from its origins up to early modern times are the focus of this course. Topics include, but are

not limited to, Confuciansim and the tradition of the scholar-bureaucrat; family, ancestors, and agrarian traditions; "civilized" China and "barbarian" neighbors; science and technology. (MULTI-CULTURAL)

HIS 2421. History of Africa to 1850 (3).F.

A survey of pre-colonial Africa, examining such topics as geographical influences, neolithic development, structures of belief, ancient North Africa, Islamic influence, trade, African kingdoms and stateless societies, Bantu and other migrations, the slave trade, and early nineteenth-century changes in several parts of Africa. (MULTI-CULTURAL)

HIS 2422. History of Africa since 1850 (3).S.

A survey which examines such topics as tradition and change in African cultures, the European partition and the African response, colonial systems, the Pan-African movement, the road to independence, and contemporary issues confronting independent Africa. (MULTI-CULTURAL)

HIS 2500. Independent Study (1–3).F;S.

HIS 2603. African American History to the Civil War (3).F.

A survey of African American history from the seventeenth century to the 1860s. (MULTI-CULTURAL)

HIS 2604. African American History Since Emancipation (3).S.

A survey of African American history from the 1860s to the present. (MULTI-CULTURAL)

HIS 2800. Writing History (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course is required for all History majors. The course uses a variety of primary and secondary sources to explore the ways history is researched and written. Prerequisite: ENG 2001 or its equivalent. (WRITING)

HIS 3121. History of Ancient Medicine (3).S.

An introduction to the history of ancient Greco-Roman medicine from Hippocrates to Galen, with an emphasis on the interaction between culture and medical practices. The course will examine the relations between doctor and patient and ancient attitudes towards the body, noting how these factors both reflected and shaped ancient society.

HIS 3122. Classical Greece and the Hellenistic World (3).S.Odd-numbered years.

This course will focus on society, culture and politics from the Persian Wars through the formation of Hellenistic Kingdoms. In addition to exploring the rise of empires and kingdoms, this course will also survey artistic and literary developments, including Greek romances. The course will be part lecture, and part discussion, with an emphasis on primary sources and source problems.

HIS 3124. Fall of the Roman Republic (3).F.Odd-numbered years.

This course will focus on developments in politics, society and the military during the last troubled years of the Republic, beginning with the Gracchi to the death of Caesar. The course will be part lecture, and part discussion, with an emphasis on primary sources and source problems.

HIS 3125. Rise of the Roman Empire (3).S.Even-numbered years.

This course will focus on the rise of the Roman Empire, from the Principate to the third century crisis. Special attention will be given to military, economic and political developments, as well as the ever-changing concept of what "Roman" meant across the empire. This course will be primarily discussion, with some lecture.

HIS 3135. Spain to 1492 (3).F.Even-numbered years.

This course introduces students to the history of Spain, covering the early Iberian, Roman, Visigoth, Islamic, and the late Medieval Christian periods.

HIS 3136. Spain from 1469 to present (3).S.Odd-numbered years.

This course introduces students to the history of Spain, covering the "Golden Age," the Spanish Civil War, Franco, and the modern democratic period.

HIS 3137. Gender, Sex, and Sexuality in Early Modern Europe (3).S.Even-numbered years.

This course will introduce students to three areas of recent thought-provoking historical research: changes in perceptions and control of gender, sex, and sexual identity in early modern Europe.

HIS 3141. Britain to 1688 (3).On Demand.

This survey course introduces students to the history of Britain to the "Glorious Revolution" of 1688.

HIS 3142. Britain Since 1688 (3).On Demand.

This survey course introduces students to the history of Britain since the "Glorious Revolution" of 1688. (WRITING)

HIS 3143. Medieval Ireland (3).On Demand.

This course will focus on Ireland during the Middle Ages as an entity apart from the Roman Empire and European mainstream. Goals of the course are to cover the introduction of Christianity, Latin, Roman leadership, Viking raids, and the establishment of towns, all of which brought Ireland into exchange with the rest of Europe. In this course, we will examine the history of this "fringe" land from the perspective of the many people who lived there, Irish and others, and look at how their interactions created the modern nation. (WRITING)

HIS 3144. The Vikings (3).On Demand.

The aim of this course is to explore both the reputation and the reality of the Vikings from 750-1200, and from Baghdad to Vinland. Archaeological excavations and sources written by the Norse and Danes themselves have shown that there was far more to the Scandinavians than their actions as Viking raiders. Their roles as explorers, merchants, craftsmen, and town-builders will be examined in this course. The emphasis will be on using primary sources, sources that actually come to us from the Middle Ages, to understand how the Vikings viewed themselves and their world, as well as how others viewed them. There will also be a strong writing component to this course. (WRITING; MULTI-CULTURAL)

HIS 3146. Medieval Warfare (3).S.Even-numbered years.

This course will examine trends in waging war from the late Roman Empire until the advent of gunpowder, roughly AD 300-AD 1400. Special attention will be paid to the changes in the Roman Army, the role of the army in the transition from Empire to Barbarian kingdoms, the Carolingian reforms, the rise of European power in the eleventh century and the Crusades, the Mongol threat, and finally, the adoption of gunpowder in the Hundred Years War.

HIS 3148. The Making of British Democracy: Party and Politics, 1865-1951 (3).On Demand.

This course will examine processes of political change in Britain between 1865 (the death of Lord Palmerston) and 1951 (the defeat at the polls of the first majority Labour government). The main focus will be on the nature and meaning of "democracy." In the early nineteenth century the term was used pejoratively, to warn against mob rule and social upheaval. But by the mid-twentieth century, Britain's system of government was generally assumed to be "democratic": the term now referred to an ongoing and salutary extension of political rights and participation. How did this change come about? Why did the character of Britain's democracy continue to be controversial? In order to address these problems, the course will investigate the role played by particular political leaders, parties, principles, and policies, and the changing relationship between political institutions and the people they were designed both to govern and to represent.

HIS 3149. Britain's "REEL" History: Monarchy and People on Film (3).On Demand.

This course will examine major themes in modern British history through film. It will focus on how films represent the past and how they are themselves products of particular periods and mind-sets. Among the topics to be studied will be: the role of the monarchy, and changing attitudes towards it; Britain's experience of war in the twentieth century; the retreat from empire; social change and class relationships; and questions of race, gender, religion, and national identity. What do we see in modern Britain: Victorian continuities or the "New Jerusalem," economic, imperial, political, and cultural decline or remarkable national progress? In addressing such questions, this course will consider what is revealed in movies and documentaries and place them in their proper historical context.

HIS 3152. Germany in Europe, 1918-present (3).S.Even-numbered years.

A study of Germany in the twentieth century, stressing the impact of war, National Socialism, Cold War division, and reunification, Socioeconomic changes, cultural developments, and Germany's role in European and world affairs will also be examined. (WRITING; MULTI-CULTURAL)

HIS 3153. The Road to Hitler (3).S.Even-numbered years.

This course examines the rise of Hitler and the Third Reich from a cultural perspective. It begins with an examination of pre-1914 *volkish* ideology and cultural Expressionism. It then examines the literary and psychological impact of World War I, analyzes the nature of the cultural experimentation of the 1920s, evaluates the cultural revolution following Hitler's appointment as Chancellor in 1933, explains why Hitler launched World War II and the Holocaust, and investigates the importance of Hitler and National Socialism for contemporary German society and culture.

HIS 3154. The Nazi Holocaust (3).F.

This course examines the origins, nature, and impact of the Nazi Holocaust. Topics discussed will include the changing position of Jews in European society; the role of anti-Semitism of Hitler's rise to power and the creation of the Third Reich; implementation of the Final Solution; the experience of Jewish and other victims in Nazi ghettos, deportations, death camps, and death marches; collaboration and resistance; and the meaning of the Holocaust today.

HIS 3155. Russia: 16th to 20th Century (3).S.

This course will examine the basic values and principles of traditional Russian civilization, which were inherited, accommodated, and then changed during the Soviet period (1917-1991) and which are springing up again in the time of complicated transition to democracy. The focus will also be made on the reforms of Peter I and Alexander II to the rise and fall of the Soviet Empire and to the last painful attempts to build democratic state and society. This broad survey will consider themes related to Russians and non-Russians alike, cultural interactions between them in the process of Russian exploration and expansion; migration and settlement patterns; ranching, mining, and other extractive industries; families; labor; water; urbanization; and myth-building.

HIS 3156. History of International Terrorism (3).F.Even-numbered years.

This course is designed to introduce students to key concepts to which they can refer to for analyzing what may be anticipated with respect to future incidents of global terrorism. The course will cover previous incidents of terrorism, such as the events of September 11, 2001, which set the stage for a major reconfiguring of world politics similar in scope to the transformations provoked by the two World Wars and the Cold War in the twentieth century. The course provides a framework as well for analyzing present and future acts of terrorism.

HIS 3158. Ethnic Conflict: East Versus West (3).F.Odd-numbered years.

Ethnic peace, conflicts, and resolutions are among the oldest dreams and most difficult challenges of human experience. The art of compromise and accommodation, the process for peaceful resolution of differences and setting of priorities, the rule of law as an inclusive and systematic set of legal procedures, and the universal respect for human rights are necessary in order to deal with ethnic conflicts and thus should be a part of professional training of new leaders. This course also deals with historic and comparative studies of ethnic conflicts in the West, the Balkans, Caucasus, and Central Asia.

HIS 3222. Colonial America (3).F.Odd-numbered years.

An examination of the formation of American values and institutions through the interaction of European traditions and the American environment; social mobility, economic opportunity, and political democracy; the role of religion; Indian relations, slavery; gender construction; the causes and consequences of the colonial wars; and the causes of the decision to seek independence from Great Britain.

HIS 3223. Revolutionary America (3).S.Odd-numbered years.

This course explores the history of the U.S. from the events leading up to the American Revolution and the fight for Independence through the founding of the United States and the election of 1800, ending with the second American Revolution (the War of 1812). The course focuses on the social and cultural effects of the war and its aftermath. It also examines the shaping of the New Republic; the founding of political parties; the Second Great Awakening; and the role of women, Native Americans, and African Americans in those processes. The course places special attention on the role of the backcountry in the shaping of the Early Republic.

HIS 3224. Antebellum America (3).F.Odd-numbered years.

A study of the United States from the end of the War of 1812 until the Civil War. Variable content. Topics include the meaning of Jacksonian democracy; slavery and race relations; the antislavery movement and the rise of social reform movements including temperance, utopianism, and women's rights; Indian removal; the market economy; the westward movement; the Mexican American War; the free soil movement; and the secession crisis.

HIS 3226. The U.S. Civil War (3).S.

A study of the era of national transformation, with emphasis on the sectional conflict and causes of the Civil War, its political and military conduct, its international impact, the abolition of slavery, and the principal political, social, economic, and cultural changes wrought on the nation by war.

HIS 3227. History of U.S. Reconstruction (1863-1877) (3).S.Odd-numbered years.

This course will examine the way in which Americans worked to reform the nation in the wake of the Civil War. It will focus on varying opinions and experiences of different Americans, black and white, men and women, North and South, East and West. We will place the South within a national context, describing how political events and social movements in the North and West shaped Reconstruction.

HIS 3228. The Gilded Age and Progressive Era (3).On Demand.

An analysis of the responses of the American people to the rise of the urban-industrial nation. Problems associated with the growth of the city, capital-labor confrontations, social mobility, black-white relations, reform movements, cultural and intellectual affairs, American imperialism, and representative biography are examined.

HIS 3229. World War II (3).On Demand.

A study of the largest and most destructive war of the 20th century, with emphasis on the global contexts in which the war began, how the Allies emerged victorious, how the war led to the development of the Cold War, and how the war dramatically altered the social, cultural, economic, and political fabric of the United States and other nations. The course will cover most of the major geographic areas involved in the war, as well as many of the major military and political events and figures of the war.

HIS 3230. Recent United States History (3).S.

American history since 1920, with emphasis on domestic social and political developments in the post-1945 period. Organized around the theme of the rise and relative decline of the middle class, major topics include the Cold War, the Civil Rights Movement, the Baby Boom, suburbanization, the rise of rock'n'roll, the Vietnam War, the Counterculture, Watergate, the Energy Crisis, and Reaganism. Course features music and films as well as lectures.

HIS 3232. Contemporary U.S. Political History (3).F.Even-numbered years.

Intensive study of selected topics in U.S. politics (broadly defined) from 1932 to the present, with an emphasis on recent events. Content will vary to reflect contemporary political debates, which will be analyzed from a historical perspective. Examples of topics include: the rise of southern Republicans, presidential campaigns, party realignments, church and state, movements of change, race and gender politics, the welfare state, globalization, and foreign policy.

HIS 3233. History of the American West (3).F.

This course examines the history of the Trans-Mississippian West from Native occupation to the twentieth century. The course considers how Native Americans lived in their environment; how the West was explored, settled, and developed by Europeans and Americans; how different ethnic and racial groups interacted and shaped each other's experiences; how men and women experienced the West; and how the West has influenced the development of the United States. It also explores the meaning of the West in the American consciousness and the place of the West in understanding American History. (WRITING)

HIS 3235. Mexican American History (3).S.

This course explores the social, economic, political and cultural history of Americans of Mexican descent from Spanish exploration and settlement through the twentieth century. It also focuses on the cultural heritage of Mexican-Americans; the meaning of "El Norte;" the Mexican-U.S. War and its aftermath; immigration; migrant labor; bilingual and bicultural education; and the Chicano movement. (WRITING)

HIS 3236. Immigration and Migration in American History (3).On Demand.

This course explores the role of immigration and migration as a factor in American history. Variable content. Topics may include: trans-Atlantic immigration; trans-Appalachian migration; westward movement and settlement; frontiers; immigration policy; and Mexican immigration.

HIS 3237. Nature, Wilderness, and American Life (3).F.Odd-numbered years.

This course provides an overview of Americans' interaction with the natural world from colonization to the present, with emphasis on Native Americans' relationship to the land, the environmental effects of European settlement, wilderness as a cultural construct, the growth of agriculture and industry, conservation and preservation, atomic energy, chemical pesticides, and the modern environmental movements. This course may be of particular interest to public historians, cultural resource managers, planners, and environmental specialists.

HIS 3238. America's National Parks (3).F.Even-numbered years.

A survey of the history of America's national parks from the nineteenth century to the present with emphasis on Americans' changing ideas about wilderness preservation, the early history of Yosemite and Yellowstone, the role of railroads in park promotion, removal of Native Americans and white settlers from park sites, establishment of the National Park Service, the impact of the automobile on tourism, the creation of national parks in the East, wildlife policy, overcrowding, and other problems facing modern parks.

HIS 3239. Country Music and American Culture (3).F.Even-numbered years.

An investigation of American country music, specifically the gospel, bluegrass, hillbilly, and rockabilly traditions that resulted in the modern Country Music Association. Parallel topics will be southern urban migration, the impact of the Great Depression, the development of radio and television, and the emergence of Nashville as America's country music center.

HIS 3240. Race, Rock & Rebellion (3).F.Even-numbered years.

Analysis of the relationship among the civil rights movement, the birth and development of rock and roll, and the youth rebellion of the 1960s and early 1970s. Topics include the Jim Crow South, the roots of rock, Massive Resistance, the Baby Boom, Rockabilly, civil disobedience, Folk Rock, youth culture, the British Invasion, the Counterculture, anti-Vietnam War music, and the transitional music of the early 70s. The period covered is from the end of World War II to 1975.

HIS 3242. The American Civil Rights Movement (3).F.Odd-numbered years.

History of the American Civil Rights Movement from Emancipation to the present, with emphasis on the period after the 1909 formation of the NAACP. Topics include the rise of Jim Crow segregation and the resistance to it, *Plessy v. Ferguson*, the Niagara Movement and the NAACP, the KKK and racial violence, the anti-lynching crusade, the Legal Defense Fund, Inc., the New Deal for Black Americans, WWII and the Double V, the legal battle against educational segregation from *Sweatt* to *Brown*, massive resistance, and the post-*Brown* civil rights revolution.

HIS 3243. History of American Popular Culture (3).F.Odd-numbered years.

An introduction to the history of popular culture in the United States from the colonial period to the present via music, television, food, film and other manifestations of American popular culture.

HIS 3301. History of the Southern Cone (3).S.Even-numbered years.

In this course, students review colonial differences and explore the history of Chile, Argentina, Paraguay, and Uruguay from independence to the present, moving both geographically and chronologically to cover the four national histories. While the course will emphasize industrial development, social consolidation, political control, labor mobilization, and international responses, students will also examine genocide, guerrilla insurrections, peasant organization, linguistic policies, immigration and internal development. The class will debate recent economic coalitions and alternatives to globalization. Students complement the general chronological approach with thematic examples from the four southern countries to examine the recent changes and to assess area trends and directions.

HIS 3303. History of Mexico (3).S.

Traces the evolution of Mexican society from pre- Columbian times to the present. Topics include the Maya and Aztec civilizations; the Spanish colonial heritage; the nation's struggle for independence; the tumultuous Mexican Revolution; and problems of economic development in the twentieth century. (WRITING; MULTI-CULTURAL)

HIS 3304. The Mexican Revolution (3).F.Even-numbered years.

Study of the Mexican Revolution, its causes in the late nineteenth century, its process during the military phase (1910-1920), the country's reconstruction (1920-1940), and its impact on modern Mexico, modern Latin America, and the United States. It will look at some of the most famous figures in Mexican history: Porfirio Diaz, Francisco Madero, Emiliano Zapata, Pancho Villa, Lazaro Cardenas, as well as great artists like Diego Rivera and Frida Kahlo. In addition to a social, economic, and military history of the revolution, the course will examine the new culture that emerged from the process, in music, art, literature, and film.

HIS 3305. Comparative Revolutions (3).S.

Comparison of important social revolutions in history. Among the list of possible revolutions are those from which the modern nation state emerged (England and France), the classic anti-capitalist revolutions of the twentieth century (Russia and China), and the anti-imperialist revolutions in the third world (Mexico, Cuba, Iran). The course will review the theory of revolution, compare theory with the historical experience of specific revolutions, and analyze the status of revolutionary theory in the contemporary world.

HIS 3306. Indigenous Resistance in Modern Latin America (3).F.Even-numbered years.

Once nearly annihilated, indigenous people have returned to play an increasingly important role in Latin America. The last decade has shown native influences to national constitutions, environmental protection and human rights as indigenous nations struggled creatively to retain political, cultural and economic autonomy. Students explore ethnic consciousness and resistance to see beyond stereotypes and understand native groups as historical actors. Texts, films and discussions focus on the contradictory way native peoples have shaped state politics and economies within a changing environment.

HIS 3308. U.S.-Latin American Relations (3).F.Odd-numbered years.

This course will examine historical perspectives on U.S.-Latin American relations, with the goal of interpreting differing frames of analysis and preparing students to teach in a multi-cultural environment. From the nineteenth to the twenty-first centuries, social and political actors in Latin America actively shaped their relations with the United States. This interaction influenced lives in both continents in important ways. Most recently, contacts have focused on drug traffic, armed insurrections, terrorism, trade relations, and migration policies. (MULTI-CULTURAL)

HIS 3322. History of Modern China (3).S.Odd-numbered years.

Traces the course of man's longest and largest continuous government and the development of Chinese culture and nationalism which has culminated in the founding of the People's Republic of China, a nation that constitutes one-fourth of the human race. (WRITING; SPEAKING; MULTI-CULTURAL)

HIS 3324. History of Modern Japan (3).S.Even-numbered years.

A survey of Japan's political, social and economic development from the late 18th century until the present. Emphasis on how Japan became a modern industrial power in the late 19th and early 20th centuries and how it retained and reinforced its economic position in the post-World War II era. (WRITING; MULTI-CULTURAL)

HIS 3332. History of Modern India (3).S.

The social and political evolution of India from the achievement of British power in India, Indian reaction in the 18th and 19th centuries, the founding of the Indian nationalist movement, and Gandhi's leadership toward Indian independence in 1947. (WRITING; MULTI-CULTURAL)

HIS 3335. History of the Middle East from Muhammad to the Present (3).F.Odd-numbered years.

History of the Middle East from the sixth century until today. A broad historical survey of the region's religious, socioeconomic, geo-political and technological development. Topics include the formation of early Islamic states until the Middle East's encounter with the West circa 1800; the region's subsequent experiences with colonization, modernization, social change, war, nationalism; the Arab-Israeli conflict; and political Islam.

HIS 3336. The Revolutionary Middle East (3).F.

This course examines, in depth, one or more of the significant political, social, religious, or economic changes which have taken place in the 20th century Middle East. Topics investigated may include, but are not limited to changes associated with: the Palestine dilemma, the Iranian Revolution, Nasser's Egypt, Islamic Fundamentalism, Middle Eastern Women, Ataturk's Turkey and/or Saddam Hussein and Iraq. (MULTI-CULTURAL)

HIS 3337. History of Women and Gender in the Middle East (3).S.Even-numbered years.

History of women and gender in the Middle East from the formation of Islam to the present. Topics include: marriage practices; homosexuality; gendered legal status; social roles and restrictions in Islam; feminism; and the related impacts of modernization, colonization, and decolonization in the Middle East.

HIS 3338. African Environmental History from Antiquity to 1500 (3).S.

Beginning with methodological and theoretical approach within the belief that "Africa's environmental history is written on its landscape," the course visits the challenges of studying pre-literate societies, where the environmental study itself produces a spectacular answer to the dearth of written account. This course examines the interaction between people and natural phenomena and it addresses such questions as what influenced the settlement patterns and development of diverse cultures in different regions of Africa. The origin of human civilization in Africa as the "accepted cradle of mankind" is explored in detail using visual materials, primary and secondary sources. (MULTI-CULTURAL)

HIS 3339. African Environmental History since 1500 (3).F.

This course explores the interaction between African people and their physical environment from 1500 to the end of the twentieth century. Organized thematically or chronologically, this course examines the intersection between African environmental practice and Western scientific currents of the post industrial era. (MULTI-CULTURAL)

HIS 3420. History of Western Medicine and Public Health (3).F.Odd-numbered years.

This course examines the roots of Western medicine in Classical and traditional Europe. Focusing on the development of medical and public health approaches and occupations in nineteenth- and twentieth-century United States, the course explores cultural, scientific, economic, and political contexts for suffering and healing.

HIS 3422. Women in European History (3).F.Even-numbered years.

An examination of the role of women in European history, both in traditional political and economic institutions, and in the family, work, and female organizations and movements. The course assumes a view of women as an essential force in history.

HIS 3423. Women in American History (3).S.Odd-numbered years.

An examination of the role of women in American history, both in traditional political and economic institutions, and in the family, work, and female organizations and movements. The course assumes a view of women as an essential force in history.

HIS 3424. History of Women and the Law (3).S.Even-numbered years.

A broad survey of women's legal place in American history from the colonial period through the fight for the Equal Rights Amendment. Beginning with English common law relative to women, the course will examine United States Constitutional Amendments, Supreme Court decisions, and federal laws that have codified women's place in American society. The course assumes a view of women as an essential force in history.

HIS 3500. Independent Study (1–3).F;S.

HIS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

HIS 3522. Pirates and Their Atlantic World (3).SS.

This course aims to examine the popular images of pirates, to find out where those images come from and to compare them with the real world of the pirates. We will concentrate on those pirates who plied the waters of the Atlantic during the seventeenth and eighteenth centuries. We will also discuss the Barbary Corsairs of North Africa and other pirates that roamed the South China Sea. Themes raised during the course will include the origins of piracy in the early modern world, the economy of the Atlantic world, seafaring during the early modern period, the language and culture of the sea, authority and violence among pirates, and the social and cultural dimensions of piracy.

HIS 3524. World Economy: History and Theory (3).F.Even-numbered years.

GEN ED: Historical and Social Perspective (Theme: "Capitalism and Its Critics")

This course traces the development of the world economy to the present, focusing on the search for the determinants of economic success and the various solutions that have been offered. The long term changes in world income and population are quantified (mainly for the second millennium), the forces that explain the success of rich countries are identified, and the obstacles that hindered economic advance in lagging regions are explored. We will emphasize the interaction between empirical methods and interdisciplinary theories. The interaction between wealthy nations and the rest of the world is scrutinized to assess the degree to which backwardness may have been due to Western policy. Also, special emphasis will be placed on the analysis of government spending patterns and the economic impact of conflicts.

HIS 3526. Business History (3).F.Odd-numbered years.

This course will survey the latest theories and empirical applications in the field of business history. Geographically, the focus will be on American and European business history, and temporally on the development of business history from the 20th to the 21st century. Topics in the course will include the development of multinational firms and the managerial revolution, family firms, armaments producers, business/government relations, and Nokia, and it will touch on local business history as well. (WRITING)

HIS 3528. Comparative Labor History (3).S.Odd-numbered years.

A study of the development of labor in history, comparing labor process in different periods and regions. The course is particularly focused on the shift from agricultural to industrial labor, the varieties of industrial labor, and the emergence of post-industrial labor. It analyzes the differences in the historical experiences of the advanced countries in Europe and North America with the historically backwards economies in the Third World. It explores the gendered experience of labor, forms of labor organization, and the growth of working-class cultures, as well as the relationship between labor and the state.

HIS 3530–3549. Selected Topics (1–4).On Demand.

HIS 3560. Undergraduate Research (1-3).F;S.

A supervised experience in which the student does historical research under the direction of a faculty member, resulting in a product of learning. May be repeated for a total credit of three semester hours. Prerequisite: History major, or permission of the instructor.

HIS 3626. Issues in Teaching United States History (3).F.

A course designed specifically for history majors who plan to teach history/social studies at the secondary level. Assignments include examination of the North Carolina Standard Course of Study for United States History, development of a plan to sequence and pace instruction, preparation of content for classroom presentation, and identification of teaching materials supplementary to textbooks.

HIS 3628. Issues in Teaching World History (3).S.

A course designed specifically for history majors who plan to teach history/social studies at the secondary level. Assignments include examination of the North Carolina Standard Course of Study for World History, development of a plan to sequence and pace instruction, preparation of content for classroom presentation, and identification of teaching materials supplementary to textbooks.

HIS 3720. History of the Old South (3).F.Even-numbered years.

An examination of the development of America's major regional subculture; a study of significant trends in the social, intellectual, economic, and political evolution of the region from the seventeenth century to the beginning of the Civil War.

HIS 3722. Post-Civil War South (3).S.Even-numbered years.

An examination of the development of America's major regional subculture. A study of significant trends in the social, intellectual, economic, and political evolution of the region since the end of the American Civil War.

HIS 3726. History of the Appalachian Region (3).S.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "Appalachia")

A survey of the history of the Appalachian region from the period of exploration and settlement to the present. (WRITING)

HIS 3728. History of North Carolina (3).F;S.

This course will examine the major social, economic, and political factors in the development of North Carolina from its settlement to the present. Consideration will be given to the relationship of the State to the Southern region and the nation. (WRITING)

HIS 3820. United States Foreign Policy (3).F.Even-numbered years.

Major episodes in the history of United States foreign policy during the twentieth century are explored, with special consideration being given to the ideas, ideals, domestic and international conditions, and personalities that have played important roles in determining relations with the rest of the world.

HIS 3822. The Vietnam War (3).S.

This course is intended to provide the student with an overview of the U.S. involvement in Vietnam since 1945, concentrating on the reasons for that involvement, the resulting conflict in Vietnam, and the results of the war. (WRITING)

HIS 3823. American Military History (3).F;S.Odd-numbered years.(SS1.Even-numbered years.)

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Empire, Colonialism and Globalization")

This course explores the American military experience from its origins in the colonial period to the present day. It is designed to view military history from a variety of angles, through multiple perspectives and formats, and to broaden students' views of the American military establishment. We will examine traditional military topics, such as strategy and tactics, and combat operations, as well as exploring "new military history" topics, such as the interaction between war and society, civil-military relations, and the social history of soldiers. We will also explore how political, social, and cultural factors have influenced the nature of warfare and the military institution in American history. (Same as MSL 3823.)

HIS 3824. American Urban History (3).S.

A study of the process of urbanization in America from colonial times to the present, with attention to the causes and nature of urban expansion, institutional development, class structure and mobility, problems of the city, reform, the image of the city in popular thought, and the impact of urbanization on national life. (WRITING)

HIS 3828. American Church History (3).S.Odd-numbered years.

A study of major Protestant, Catholic, and Jewish organizations in the United States from the colonial period to the present. The course also traces the rise of popular religious culture through an examination of religious use of literature, education, politics, theater, music, and the electronic media. (WRITING)

HIS 3922. The Western Intellectual Tradition (3).S.Odd-numbered years.

Studies in western intellectual history which examine the interaction of historically important ideas and their social milieu, with emphasis on selected individuals and concepts that have shaped and exemplified western thought.

HIS 3923. The Truth in History and the Truth of History (3).On Demand.

GEN ED: Historical Studies Designation; Historical and Social Perspective (Theme: "Mind")

The primary goal of this course is to help students understand how historians determine the truth in history. The class will use the example of a specific historical event. Students will examine reasoned arguments about truth, relevant social theories necessary for understanding social processes, and primary and secondary sources about the event in question. The class will integrate these materials to explore how historians determine the truth in history and the truth of history.

HIS 3925. Evolution and Creationism in Historical Context (3).S.Odd-numbered years.

This course will examine the evolving relationship between science and religion as it has influenced the history of the life sciences since the Renaissance. Topics will include the discovery and interpretation of the fossil record, seventeenth- and eighteenth-century natural theology, eighteenth-century theories of evolution, the life and thought of Charles Darwin, the origins and development of twentieth-century creationism in the United States, and the legal and political issues that the evolution/creationism debate has raised.

HIS 3926. Science, Technology, and Society in the Atomic Age (3).S.Even-numbered years.

This course will examine the nature of scientific and technological change since 1900. Attention will also be paid to the evolving impact of science and technology on society, particularly in the context of war and popular culture. Among the topics to be discussed will be the origins of special and general relativity, the development of atomic theory and the atomic bomb, the history of the space program, the nature of biochemistry (especially as it relates to the structure of DNA and genetics), and recent concerns about biotechnology.

HIS 3927. Scientific Revolution (3).F.Odd-numbered years.

The goal of this course is to follow the development of scientific knowledge and practice from the Middle Ages to the Age of Enlightenment and to understand science and scientific change as the people of the time understood it. Through a variety of primary and secondary texts, we will see that the pursuit of science was both an intellectual and a social activity and that scientific work had a profound impact on the development of Western Civilization, just as Western society and its social institutions had a profound influence on the practice of science.

HIS 4000. Senior Colloquium (3).F;S.

Variable content. A readings course that investigates a broad topic, field, or period in history. Strongly emphasizes current scholarship, interpretation, and bibliography. Barring duplication of content, a student may repeat the course for a total of six credit hours. Prerequisite: History major with a minimum of three semester hours in history at the 3000-level, or permission of the instructor.

HIS 4100. Senior Seminar (3).F;S.

GEN ED: Capstone Experience

Variable content. In a seminar setting, students will investigate a broad topic, field, or period in history through intensive reading, research, and writing. Strongly emphasizes the examination and interpretation of primary and secondary sources, definition of a research topic, use of research methodology, and the understanding of issues and problems in research. A minimum grade of "C" in the HIS 4100 Senior Seminar is required to complete the History major. Prerequisite: History major with senior standing and a minimum of three semester hours in history at the 3000-level, or permission of the instructor. (WRITING; SPEAKING)

HIS 4575. Introduction to Public History (3).F.

An introduction to the interdisciplinary skills and techniques employed by historians and other professionals in historical agencies, museums, restoration, policy research, archives, cultural resources management, and the National Park Service. Topics include historical archeology, family and community history, oral history, material culture, architecture, preservation techniques, site interpretation and administration, and historic district planning and management. Required hands-on public history fieldwork. Additional reading and writing requirements for graduate students. (CROSS-DISCIPLINARY) [Dual-listed with HIS 5575.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HIS 4610. Management of Museums (3).F.

This course surveys the history of museum development internationally, and components of modern museum operation. Major topics include the world history of museums, the development of core management documents, and finance. [Dual-listed with HIS 5610.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HIS 4640. Interpretation in Museums (3).S.

This course surveys the manner by which museums create and present exhibits and other programs intended for the public. Topics include the philosophy of exhibits, methods of exhibit design, model making, label writing, development of non-exhibit programming and evaluation. [Dual-listed with HIS 5640.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HIS 4660. Topics in Public and Applied History (3).F;S.On Demand.

Variable content. A systematic examination of field in public and applied history such as museum studies, archival management, historic preservation, or the history of architecture. Barring duplication of content, a student may repeat the course. [Dual-listed with HIS 5660.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HIS 4900. Internship: Experiential Learning in Public and Applied History (3–12).F;S.

An on-the-job work experience individually tailored to the students' career orientation. Students may be required to reside off-campus for periods of from six weeks to a full semester. Graded on an S/U basis.

Department of Languages, Literatures, and Cultures (LLC)

James D. Fogelquist (Spanish), Chair

Catherine A. Fountain (Spanish), Acting Assistant Chair

Irina Y. Barclay (Russian)

Kevin R. Burnham (Arabic)

Zhiyuan Chen (Spanish)

Victoria K. Cox (Spanish)

Benito del Pliego (Spanish)

Julie E. Everett (French)

Andrés Fisher (Spanish)

Martial Frindéthié (French)

Rainer H. Goetz (Spanish)

Josette C. Hollenbeck (French)

Kevin G. Kennedy (German)

Michael E. Lane (French)

Richard G. McGarry (Linguistics and ESL)

Beverly A. Moser (German)

Maria Patricia Napiorski (Spanish)

Benjamin J. Souza (Spanish)

Alexandra Sterling-Hellenbrand (German)

Wendy Xie (Chinese)

The curriculum of the Department of Languages, Literatures, and Cultures includes courses in French, Spanish, German, Latin, Russian, Japanese, Chinese, Arabic, Portuguese, and ESL. The major objective of the department is to enable students to gain linguistic and cultural competency through the study and practice (reading, writing, speaking) of the languages we offer. Further studies in the culture and literature of the target languages are designed to give students a better understanding of the traditions, achievements and lifestyles of the countries and areas where the languages are spoken. In teaching culture through literature and language, we seek to educate students with the intercultural and linguistic proficiency to become active members of a diverse global community.

Language Placement Exam Requirement:

In French, German, and Spanish, and in other languages where available, a language placement exam is required of all entering students and all upper-level students who have not previously taken the placement test before enrolling in their first language course at ASU. The placement exam score remains valid for two years, but after two years the exam must be retaken before a student may enroll in a first language course at ASU.

Students are expected to enroll in the course indicated by the results of their exam. When warranted, a student's placement level may be adjusted after consultation with the language advisor.

A student who enrolls in a course lower than the placement level indicated will not be granted credit for the course. Courses taken below the placement level count as credit toward course load and full-time student eligibility, but do not count toward hours required for graduation and will not be calculated as part of the GPA. Placement credit will be awarded to students **only** if they successfully complete (with a "C" or better) the course they score into.

Placement credit will be awarded in the following manner:

- Students placing into and successfully completing 1020 receive placement credit for 1010.
- Students placing into and successfully completing 1040 receive placement credit for 1010 and 1020.
- Students placing into and successfully completing 1050 receive placement credit for 1020 and 1040.
- Students placing into the 2000 level (advanced) may choose 2005 or 2010 as a validation course. Successfully completing the 2000 level class would gain placement credit for 1040 and 1050.

Transfer students with college credit in a language who wish to continue in the same language are not required to take the placement test. However, transfer students are encouraged to consult with the faculty advisor for that language.

All students who wish to enroll in courses on the level of 2000 or above must take proficiency tests or complete course work through the intermediate level of that language (1050). All classes in the Department, except those designated as LLC (Languages, Literatures, and Cultures) courses, are taught in the target language. LLC courses are offered in English and may count towards the major only under special circumstances and with the consent of the advisor and departmental chair.

The Bachelor of Arts degree in French and Francophone Studies (122A/16.0901)

The program of study is available at: www.programsofstudy.appstate.edu/french-and-francophone-studies-ba-122a-2012-2013

The Bachelor of Arts degree in Spanish (286A/16.0905)

The program of study is available at: www.programsofstudy.appstate.edu/spanish-ba-286a-2012-2013

The Bachelor of Science degree in French and Francophone Studies, Education (123A/13.1325)[T] with K-12 teacher licensure

The program of study is available at: www.programsofstudy.appstate.edu/french-and-francophone-studies-education-bs-123a-2012-2013

The Bachelor of Science degree in Spanish, Education (298A/13.1330)[T] with K-12 teacher licensure

The program of study is available at: www.programsofstudy.appstate.edu/spanish-education-bs-298a-2012-2013

Minors

A minor in Chinese (227/16.9999) consists of 15 semester hours. (International Business majors with a minor in Chinese are required to take CHN 3090, Business Chinese.)

The program of study is available at: www.programsofstudy.appstate.edu/chinese-minor-227-2012-2013

A minor in French and Francophone Studies (122/16.0901) consists of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/french-and-francophone-studies-minor-122-2012-2013

A minor in German (245/16.0501) consists of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/german-minor-245-2012-2013

A minor in Japanese (117/16.0302) consists of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/japanese-minor-117-2012-2013

A minor in Russian (129/16.0402) consists of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/russian-minor-129-2012-2013

A minor in Spanish (286/16.0905) consists of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/spanish-minor-286-2012-2013

A minor in TESL/Applied Linguistics (TESL: Teaching English as a Second Language) (288/16.0102)

consists of 18 or 21 semester hours of required course work.

The program of study is available at: www.programsofstudy.appstate.edu/teslapplied-linguistics-minor-288-2012-2013

Honors Program in French and Spanish

The Department of Languages, Literatures, and Cultures maintains an honors program in French and in Spanish to provide qualified students with an opportunity for advanced research in a seminar atmosphere. At the freshman level, the Department of Languages, Literatures, and Cultures participates in the campus wide honors program for eligible new students, offering honors sections of a variety of introductory courses on a rotating basis. Honors courses are available in the department for students at the sophomore, junior and senior level. These courses are open to students who have distinguished themselves. Junior and senior level honors courses carry full credit toward the majors in French and Spanish, or for non-majors full elective credit. The sophomore honors course (LLC 2510) carries humanities/literature credit with a multi-cultural designator. In order to remain in the departmental program, students must maintain at least a "B" average in honors work.

To graduate with honors in Languages, Literatures, and Cultures: French, a student must take 9 semester hours of honors courses in the department, including LLC 2510, FRE 3510 and FRE 4510.

To graduate with honors in Languages, Literatures, and Cultures: Spanish, a student must take 9 semester hours of honors courses in the department, including LLC 2510, SNH 3510 and SNH 4510.

Languages, Literatures, and Cultures: French majors meeting the requirements of the honors program (LLC 2510, FRE 3510, FRE 4510) with a grade of "B" or better and a 3.45 GPA in all departmental course work will graduate with "honors" in Languages, Literatures, and Cultures: French. Those meeting the requirements with a grade of "A" and a 3.65 GPA in all French course work will graduate with "high honors" in Languages, Literatures, and Cultures: French. Those meeting the requirements with a grade of "A" and a 3.85 GPA in all French course work will graduate with "highest honors" in Languages, Literatures, and Cultures: French.

Languages, Literatures, and Cultures: Spanish majors meeting the requirements of the honors program (LLC 2510, SNH 3510, SNH 4510) with a grade of "B" or better and a 3.45 GPA in all departmental course work will graduate with "honors" in Languages, Literatures, and Cultures: Spanish. Those meeting the requirements with a grade of "A" and a 3.65 GPA in all Spanish course work will graduate with "high honors" in Languages, Literatures, and Cultures: Spanish. Those meeting the requirements with a grade of "A" and a 3.85 GPA in all Spanish course work will graduate with "highest honors" in Languages, Literatures, and Cultures: Spanish.

Qualified University honors students who are minoring in a language (Chinese, French, German, Japanese, Russian, Spanish, TESL/Applied Linguistics) or minoring in an Area Studies program (e.g., Asian Studies; East European, Russian and Central Asian Studies) may arrange to have a language faculty member as the second reader of the senior honors thesis, with the approval of the thesis advisor from the major department and approval from the Honors Program.

International Economics and Business Options

International economics and business options are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in Economics. The program is jointly administered by the Department of Economics and the Department of Languages, Literatures, and Cultures. Students participating in the program have an advisor in each department.

The program combines a major in Economics and a major or minor in a language. Students are also advised to pursue a minor in International Business.

The various options are:

- Bachelor of Arts with a double major in Economics and one language (Languages, Literatures, and Cultures with a concentration in French and Francophone Studies OR Languages, Literatures, and Cultures with a concentration in Spanish)
- Bachelor of Arts in Economics with a minor in French and Francophone Studies, German or Spanish
- Bachelor of Science in Business Administration with a major in Economics and a minor in French and Francophone Studies, Spanish or German

Under all three options, the student is expected to demonstrate proficiency in reading and speaking the language selected. At least 15 hours of courses in the language, civilization, and culture of the chosen country or area are recommended at the 2000 level or above. Also students are expected to participate, if possible, in any one or more of the following:

1. Pursue a minor in International Business (15 semester hours)
2. Complete a semester or summer session of business study abroad in the country of their choice
3. Complete an internship abroad (usually 6 semester hours)

Language Computer Lab

The Department of Languages, Literatures, and Cultures supports a 22 station walk-in computer laboratory located in the department. Along with the standard Internet browsers, Microsoft Office, and iTunes, a range of language proprietary software and online services is available to enrolled language students. Computer assistance is available in the lab during all hours of operation.

The Language Computer Lab maintains two electronic multi-media classrooms. Both offer computer data projection with Smart Technology (SmartBoards), DVD, VCR, and cable TV connection. Remaining departmental classrooms are equipped with TVs and VCRs. Video viewing activity and media to enrich the classroom experience are also supported by the lab.

Master of Arts

The Department of Languages, Literatures, and Cultures offers a Master of Arts degree in Romance Languages with concentrations in French K-12 Teaching (M Level Licensure), French College Teaching, Spanish K-12 Teaching (M Level Licensure), and Spanish College Teaching. Persons interested in this degree are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Languages, Literatures, and Cultures

(ARB, CHN, FRE, GER, JPN, LAT, LLC, POR, RSN, SNH)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

ARABIC (ARB)

ARB 1010. Beginning Arabic I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading and writing Arabic, with emphasis on the use of functional, communicative language. Open to students with no previous experience in Arabic. Laboratory work required.

ARB 1020. Beginning Arabic II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing Arabic with emphasis on the use of functional, communicative language. Prerequisite: ARB 1010 or consent of the instructor. Laboratory work required.

ARB 1040. Intermediate Arabic I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: ARB 1020 or consent of the instructor. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

ARB 1050. Intermediate Arabic II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of ARB 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued

development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: ARB 1040 or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

CHINESE (CHN)

CHN 1010. Beginning Chinese I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading and writing Chinese, with emphasis on the use of functional, communicative language. Open to students with no previous experience in Chinese. Laboratory work required.

CHN 1020. Beginning Chinese II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing Chinese with emphasis on the use of functional, communicative language. Prerequisite: CHN 1010 or consent of the instructor. Laboratory work required.

CHN 1040. Intermediate Chinese I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: CHN 1020 or consent of the instructor. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

CHN 1050. Intermediate Chinese II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of CHN 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: CHN 1040 or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

CHN 2001. Advanced Chinese I (3).F.

Focuses on acquiring additional proficiency in speaking, listening, reading and writing. Prerequisite: CHN 1050 or its equivalent. Laboratory work required.

CHN 2003. Advanced Chinese II (3).S.

Focuses on acquiring proficiency in speaking, listening, reading and writing. Prerequisite: CHN 2001 or its equivalent. Laboratory work required.

CHN 2005. Intensive Grammar Review (3).F.

Focus is on the practice of various aspects of basic Chinese grammar patterns and language structures. Prerequisite: CHN 2003 or its equivalent. Laboratory work required.

CHN 2010. Conversational Chinese I (3). On Demand.

This course is designed for those with intermediate language proficiency who wish to focus on oral language skills. Prerequisite: CHN 1050 or its equivalent. Laboratory work required.

CHN 2020. Conversational Chinese II (3). On Demand.

This course is designed for those with intermediate language proficiency who wish to focus on oral language skills. Prerequisite: CHN 2010 or permission of the instructor. Laboratory work required.

CHN 2500. Independent Study (1–3). On Demand.

CHN 3090. Business Chinese (3). On Demand.

Focuses on oral and written business expressions common in business communications. Prerequisite: CHN 2003 or its equivalent. Laboratory work required.

CHN 3500. Independent Study (1–3). On Demand.

CHN 3520. Instructional Assistance (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

CHN 3530–3549. Selected Topics (1–4). On Demand.

FRENCH (FRE)

FRE 1010. Beginning French I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading, and writing French, with emphasis on the use of functional, communicative language. Open to students with no previous experience in French or whose French placement test score indicates deficiency. Laboratory work required.

FRE 1020. Beginning French II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing French with emphasis on the use of functional, communicative language. Prerequisite: FRE 1010 or consent of the advisor. Laboratory work required.

FRE 1030. Accelerated Beginning French (6). On Demand.

Combines FRE 1010 and FRE 1020. Open to students with no previous experience in French or whose French placement score indicates deficiency. Meets daily for a total of 300 minutes per week. Laboratory work required.

FRE 1040. Intermediate French I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: adequate score on the placement test or FRE 1020, or FRE 1030, or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

FRE 1050. Intermediate French II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

Focus on various aspects and perspectives of selected French-speaking cultures outside of France, including francophone peoples of Canada, the Caribbean, and/or the African continent. Continued development of communicative language skills through contact with authentic materials, readings, and films. Prerequisite: FRE 1040 or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

FRE 1060. Accelerated Intermediate French (6). On Demand.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")*

Combines FRE 1040 and FRE 1050. Prerequisite: FRE 1020 or the equivalent. Class meets daily for a total of 300 minutes per week. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES) (*NOTE: Only 3 s.h. of this 6 s.h. course may count for general education credit in a theme.)

IN ORDER TO REGISTER FOR COURSES TAUGHT IN FRENCH ON THE 2000 LEVEL OR ABOVE, STUDENTS MUST COMPLETE FRE 1050 OR FRE 1060 OR MAKE AN ADEQUATE SCORE ON THE PLACEMENT TEST.

FRE 2005. Intensive Grammar Review (3).F.

Comprehensive review for thorough understanding of the elements of the French language necessary for students wishing to pursue further studies in French. Prerequisite: FRE 1050 or FRE 1060, or the equivalent, or an adequate score on the placement test. Laboratory work required. Required for minors and majors.

FRE 2006. French Sound and Script (3).F.

A study of the sound system in French, the phonetic alphabet and its use. Oral practice aimed at improving pronunciation and orthography. Prerequisite: FRE 1050 or FRE 1060 or consent of the instructor. Laboratory work required.

FRE 2010. Spoken French (3).F;S.

Study of French sounds, vocabulary, and structures targeting listening comprehension and oral self-expression in French. Practice aimed at improving pronunciation, idiomatic usage, discursive and presentational modes of the language. Prerequisite: FRE 1050 or FRE 1060 or consent of the instructor. Laboratory work required. Required for minors and majors. (SPEAKING)

FRE 2025. Introduction to Literature and Writing (3).S.Alternate years.

This course will focus on the development of skills necessary for critical reading of and writing about literature (examination of genres, concepts of literary structure, language use, and critical theories) through examination of selected works. The course also aims at improving the student's ability to write in French with grammatical correctness. This course satisfies the 2000-level major requirement in French literature. Prerequisite: FRE 2005. (WRITING)

FRE 2035. The French Speaking World (3).F.

Initiation to French-speaking cultures of the world, including Europe, West and Central Africa, Quebec, and the Antilles. Continued

practice of language skills through various readings, discussions, presentations, and written assignments in French. Prerequisite: FRE 2005 or consent of the instructor. Required for majors.

FRE 2045. Children's and Adolescent Literature (3).F.Alternate years.

This course will focus on select literary texts from the French-speaking world, including francophone Europe, Africa, the Antilles, and the Americas that, while certainly enjoyed by adults, were intended for younger reading audiences. Continued development of students' French language skills through readings, written assignments, and class discussions. This course satisfies the 2000-level major requirement in French literature. The course content may vary, but FRE 2045 may count only once in fulfillment of major or minor program requirements in French. Prerequisite: FRE 2005. (WRITING; MULTI-CULTURAL)

FRE 2055. Women Writers of French Expression (3).S.Alternate years.

This course will focus on select literary texts by women writers of the French-speaking world, including francophone Europe, Africa, the Antilles, and the Americas. Continued development of students' French language skills through readings, written assignments, and class discussions. This course satisfies the 2000-level major requirement in French literature. The course content may vary, but FRE 2055 may count only once in fulfillment of major or minor program requirements in French. Prerequisite: FRE 2005. (WRITING; MULTI-CULTURAL)

FRE 2065. Black Writers of French Expression (3).F.Alternate years.

This course will focus on select literary texts by black writers of the French-speaking world, including francophone Europe, Africa, and the Antilles. Continued development of students' French language skills through readings, written assignments, and class discussions. This course satisfies the 2000-level major requirement in French literature. The course content may vary, but FRE 2065 may count only once in fulfillment of major or minor program requirements in French. Prerequisite: FRE 2005. (WRITING; MULTI-CULTURAL)

FRE 2500. Independent Study (1–3). On Demand.

FRE 3030. Masterworks of French Literature (3).F.Alternate years.

A study of selected works of French literature from the Medieval to the Modern period. Prerequisite: one 2000-level FRE literature course (FRE 2025, FRE 2045, FRE 2055, or FRE 2065) or consent of the instructor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

FRE 3035. Literature and Film (3).S.Alternate years.

This course will focus on select literary texts of French expression and cinematographic adaptations of them. This course satisfies the 3000/4000-level major requirement in French literature. The course content may vary, but FRE 3035 may count only once in fulfillment of major or minor program requirements in French. Prerequisite: one 2000-level FRE literature course (FRE 2025, FRE 2045, FRE 2055, or FRE 2065) or consent of the instructor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

FRE 3040. French Culture and Civilization (3).S.Alternate years.

A study of the culture of France and the francophone world from the Medieval to the Modern period as seen through social and political developments, cultural institutions, and the arts. This course satisfies the 3000/4000-level major requirement in French cultural studies. Prerequisites: FRE 2005 and FRE 2010 or consent of the instructor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

FRE 3045. Translation Techniques (3).F.

GEN ED: Junior Writing in the Discipline (WID)

Introduction to practical translation techniques to prepare students of French to produce French-English and English-French translations. Required for majors. Prerequisites: FRE 2005 and one 2000-level FRE literature course (FRE 2025, FRE 2045, FRE 2055, or FRE 2065); and ENG 2001 or its equivalent. (WRITING)

FRE 3050. Masterworks of Francophone Literature (3).S.Alternate years.

This course will focus on select literary texts by writers of the French-speaking world beyond France, with special emphasis on (post) colonial literatures of francophone Africa and the Antilles. This course satisfies the 3000/4000-level major requirement in French literature. The course content may vary, but FRE 3050 may count only once in fulfillment of major or minor program requirements in French. Prerequisite: one 2000-level FRE literature course (FRE 2025, FRE 2045, FRE 2055, or FRE 2065) or consent of the instructor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

FRE 3065. Francophone Culture Through Film (3).F.

An in-depth study of selected films that reveal traditional and contemporary aspects of Francophone culture with focus on such issues as immigration and past colonization, nationalism, religion, freedom, education, parenthood, marriage, and aging. Special consideration of films produced in France, Africa, Canada, Belgium, and Switzerland. Laboratory work required. Prerequisites: junior or senior standing and FRE 3080. (MULTI-CULTURAL)

FRE 3080. Advanced Grammar and Composition (3).S.Alternate years.

Intensive study of the various types of expository writing with emphasis on the morphology and idiomatic expressions of French. Prerequisites: FRE 2005 and FRE 2010 or consent of the instructor. (WRITING)

FRE 3095. Business French (3). On Demand.

Focus on various types of business correspondence, with emphasis on current, specialized vocabulary pertinent to international trade and business, and ability to write and communicate via business letters, ads, memos, etc. Students must keep a "business portfolio." Prerequisites: junior or senior standing and FRE 2005 or consent of the instructor.

FRE 3500. Independent Study (1–3).F;S. On Demand.

FRE 3510. Junior/Senior Honors Seminar in French (3). On Demand.

A study of major works, authors, genres, or literary movements in literature of the Francophone world (European, West African, or Caribbean). Enrollment is by invitation of the department, or by application.

FRE 3520. Instructional Assistance (1).F;S. On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

FRE 3530–3549. Selected Topics (1–4). On Demand.

FRE 4010. Aspects of Francophone Culture (3).S.Alternate years.

An in-depth study of French literature outside of France. Special consideration will be given to the themes and style of representative works from Africa, the Antilles, Madagascar, and Canada. Prerequisite: one 2000-level FRE literature course (FRE 2025, FRE 2045, FRE 2055, or FRE 2065) or consent of the instructor. (WRITING)

FRE 4075. Advanced Conversation (3).S.

Development of skills necessary to express ideas fluently on contemporary cultural, literary, and professional issues. Prerequisites: junior or senior standing and FRE 2010 or consent of the instructor.

FRE 4510. Senior Honors Thesis (3).F;S.

Independent study and research. Honors thesis directed by a member of the French faculty in the Department of Languages, Literatures, and Cultures and graded by a departmental committee. Oral presentation. Prerequisites: completion of LLC 2510 and FRE 3510 with at least a "B" average.

FRE 4565. Advanced French Expression (3).F.

GEN ED: Capstone Experience

Students will have the opportunity to advance their oral and written proficiencies by examining and using different registers of contemporary spoken French as well as analyzing different written genres. Their oral work will be based on reading and discussing current articles from newspapers and periodicals; their written work will be modeled on selected literary and cultural narratives written by experienced French writers. Prerequisites: senior or graduate standing and FRE 3080, or consent of the instructor. (WRITING) [Dual-listed with FRE 5565.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GERMAN (GER)

GER 1000. Beginning Conversational German (1-3). On Demand.

Elementary conversational patterns for students without previous knowledge of German. The course is designed to allow students to acquire elementary speaking skills in the German language in preparation for more advanced study in the summer sessions on campus and abroad.

GER 1010. Beginning German I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading, and writing German, with emphasis on the use of functional, communicative language. Open to students with no previous experience in German or whose German placement test score indicates deficiency. Laboratory work required.

GER 1020. Beginning German II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing German with emphasis on the use of functional, communicative language. Prerequisite: GER 1010 or consent of the advisor. Laboratory work required.

GER 1030. Accelerated Beginning German (6).F. On Demand.

Combines GER 1010 and GER 1020. Open to students with no previous experience in German or whose German placement score indicates deficiency. Meets daily for a total of 300 minutes per week. Laboratory work required.

GER 1040. Intermediate German I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: adequate score on the placement test or GER 1020, or GER 1030, or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

GER 1050. Intermediate German II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of GER 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: GER 1030 or GER 1040, or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

GER 1060. Accelerated Intermediate German (6).S. On Demand.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")*

Combines GER 1040 and GER 1050. Prerequisite: GER 1020 or GER 1030, or the equivalent. Class meets daily for a total of 300 minutes per week. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES) (*NOTE: Only 3 s.h. of this 6 s.h. course may count for general education credit in a theme.)

IN ORDER TO REGISTER FOR COURSES TAUGHT IN GERMAN ON THE 2000 LEVEL OR ABOVE, STUDENTS MUST COMPLETE GER 1050 OR GER 1060 OR MAKE AN ADEQUATE SCORE ON THE PLACEMENT TEST.

GER 2005. Intensive Grammar Review (3).F. On Demand.

Comprehensive review for thorough understanding of the elements of the German language necessary for students wishing to pursue further studies in German. Prerequisite: GER 1050 or GER 1060, or the equivalent, or an adequate score on the placement test. Laboratory work required.

GER 2010. Conversation and Composition I (3).F.

Emphasis on acquisition of a practical vocabulary and active use of the language. Shorter readings on contemporary German life provide subject matter for in-class discussion and regular written compositions. Prerequisite: GER 1050 or GER 1060, or the equivalent, or an adequate score on the placement test. Laboratory work required. Required for minors. (SPEAKING)

GER 2015. Conversation and Composition II (3).S.

Continues the goals of GER 2010, but with added emphasis on stylistic improvement in speaking and writing. Prerequisite: GER 2010 or consent of the advisor. Required for minors.

GER 2025. Introduction to Literature (3).F;S. On Demand.

Development of skills necessary for understanding of genre, concepts of literary structure, language, and criticism through examination of selected works. Prerequisite: GER 2010.

GER 2035. German Through Film (3).On Demand.

A study of modern German language and culture through film with special emphasis on cinematic representation of historical, political, and social contexts. Prerequisite: GER 2005 or GER 2010 or consent of the instructor. (WRITING)

GER 2050. Great German Cities I: Settlement Through the Middle Ages (3).SS.

Taught in Germany as part of the department's short term study abroad program in Trier. This course offers an introduction to early German culture and civilization through the living laboratory of the city of Trier, which was a capital of the Roman empire and a thriving medieval cathedral town. Prerequisite: GER 1050 or consent of the instructor. (MULTI-CULTURAL)

GER 2055. Great German Cities II: The Modern City in Cultural Context (3).SS.

Taught in Germany as part of the department's short term study abroad program in Trier. This course offers an introduction to the social, political and cultural realities of contemporary Germany through the lens of development in the city of Trier, an ancient city constantly coming to terms with (and sometimes into conflict with) the demands of living in the twenty-first century. Prerequisite: GER 1050 or consent of the instructor. (MULTI-CULTURAL)

GER 2500. Independent Study (1–3).F;S. On Demand.

GER 3015. Selections of German Literature I (3).F.

A study of the works of representative German authors from the 8th to the 18th century. Prerequisite: GER 2010 and GER 2015 or consent of the advisor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

GER 3021. Märchen (3).On Demand.

Study of 19th century German Märchen in cultural, historical and literary context. These Märchen include the well-known fairy tales of Jakob and Wilhelm Grimm (Kinder- und Hausmärchen) as well as the literary fairy tales of Romantic authors such as Ludwig Tieck and E.T.A. Hoffmann. Prerequisites: GER 2010 and GER 2015 or consent of the instructor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

GER 3025. Selections of German Literature II (3).S.

A study of the works of representative German authors of the 19th and 20th centuries. Prerequisite: GER 2010 and GER 2015 or consent of the advisor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

GER 3030. German Phonetics and Diction (3).S. On Demand.

A thorough study of the sound system in German. Oral practice and laboratory. The goal is to achieve a near native pronunciation. Prerequisites: GER 2010 and GER 2015 or consent of the advisor.

GER 3050. German Culture and Civilization Before 1900 (3).F.On Demand.

Study of German institutions, philosophy, literature, and art prior to 1900. Prerequisites: GER 2010 and GER 2015 or consent of the instructor. (MULTI-CULTURAL) (CORE: HUMANITIES)

GER 3055. Culture and Civilization of Modern Germany (3).S.

A study of the major cultural and literary changes in Germany after World War II, including changes in the social, economic, and educational systems. Prerequisites: GER 2010 and GER 2015 or consent of the advisor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

GER 3075. Advanced Conversation (3).S.

Review of the more difficult structures of the language. Introduction of additional vocabulary and idiomatic expressions which will allow the student to express complex ideas on contemporary and professional issues with fluency and an acceptable pronunciation. Prerequisites: GER 2010 and GER 2015 or consent of the advisor.

GER 3080. Advanced Grammar and Composition (3).F.

Development of skills necessary to express fluently, and in depth, ideas on contemporary, cultural, literary, and professional issues. Prerequisites: junior or senior standing, GER 2010 and GER 2015 or consent of the advisor.

GER 3090. Business German (3).F.

This course provides an insight into the current German business world. Acquisition of the specialized language of social security, international finance, marketing, import and export trade, and trade unions. Prerequisites: GER 2010 and GER 2015, or consent of the advisor.

GER 3500. Independent Study (1–3).F;S. On Demand.

GER 3520. Instructional Assistance (1).F;S. On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

GER 3530–3549. Selected Topics (1–4).F;S. On Demand.

GER 3550. German Customs and Folklore (3).SS.

Taught in Germany for study abroad students only. Study of the German “way of life,” the traditions, festivities, and the spirit of the people. Free informational materials made available by the German government serve as study guides. Prerequisites: GER 2010 and GER 2015 or consent of the advisor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

JAPANESE (JPN)

JPN 1010. Beginning Japanese I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading, and writing Japanese, with emphasis on the use of functional, communicative language. Open to students with no previous experience in Japanese. Laboratory work required.

JPN 1020. Beginning Japanese II (3).S.

Continuation of skills necessary for understanding, speaking, reading, and writing Japanese with emphasis on the use of functional, communicative language. Prerequisite: JPN 1010 or consent of the instructor. Laboratory work required.

JPN 1040. Intermediate Japanese I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: JPN 1020 or consent of the instructor. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

JPN 1050. Intermediate Japanese II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of JPN 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: JPN 1040 or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

JPN 2001. Advanced Japanese I (3).F.

Focuses on acquiring additional proficiency in speaking, listening, reading and writing. Prerequisite: JPN 1050 or consent of the instructor.

JPN 2003. Advanced Japanese II (3).S.

Focuses on acquiring more advanced proficiency in speaking, listening, reading and writing. Laboratory work required. Prerequisite: JPN 2001 or consent of the instructor.

JPN 2500. Independent Study (1–3). On Demand.

JPN 3500. Independent Study (1–3). On Demand.

JPN 3520. Instructional Assistance (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

JPN 3530–3549. Selected Topics (1–4). On Demand.

LATIN (LAT)

LAT 1010. Beginning Latin I (3).F.

Introduction to Latin and its influence on the Romance languages and English. Emphasis is placed on reading, writing, and translating. Laboratory work required.

LAT 1020. Beginning Latin II (3).S.

Mastery of elementary grammar and syntax through readings, written assignments, and laboratory work. Prerequisite: LAT 1010 or consent of the advisor. Laboratory work required.

LAT 1040. Intermediate Latin I (3).F.

A study of Latin culture and language as revealed through the work of Cicero and other Latin writers of the classical period. Readings are supplemented with a review of grammar and syntax. Emphasis on Latin literary styles and their influences on the Romance languages. Prerequisite: LAT 1020 or adequate score on the Latin placement test or consent of the advisor. (MULTI-CULTURAL) (CORE: HUMANITIES)

LAT 1050. Intermediate Latin II (3).S.

A study of classical Latin culture and language as revealed through poetry and prose. Emphasis on major figures such as Catullus, Horace, Vergil, Livy and Petronius. Prerequisite: LAT 1040 or consent of the advisor. (MULTI-CULTURAL) (CORE: HUMANITIES)

LAT 2500. Independent Study (1–3). On Demand.

LAT 3010. The Aeneid (3). On Demand.

Prerequisite: LAT 1050 or four years of high school Latin or permission of the instructor. Key passages are selected for translation and discussion. (MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

LAT 3020. The Roman Historians (3). On Demand.

Prerequisite: LAT 1050 or four years of high school Latin or permission of instructor. Translation of selected passages and discussion of literary values of Livy, Sallust and Tacitus. (MULTI-CULTURAL) (CORE: HUMANITIES)

LAT 3500. Independent Study (1–3). On Demand.

LAT 3520. Instructional Assistance (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

LAT 3530–3549. Selected Topics (1–4). On Demand.

LAT 4010. Roman Satire (3). On Demand.

Selections from Horace and from Juvenal will be read. Discussions will include each poet's specific characteristics and his influence on western culture.

LAT 4020. Roman Comedy (3). On Demand.

Selections from the comedies of Plautus and Terrence will be read. Discussions will include the practice of contamination and the playwright's influence on western culture.

LANGUAGES, LITERATURES, AND CULTURES (LLC)

Courses offered in English

LLC 0100. TOEFL Preparation for International Students (3). On Demand.

Introduction to the TOEFL: Test of English as a Foreign Language as well as an in-depth concentration in each of the three areas of the test: listening comprehension, structure, and reading comprehension. Students will have the opportunity to learn important test-taking strategies to improve their TOEFL scores. Course counts as three hours credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (see "Institutional Credit").

LLC 1000. English for International Students (3).F.

GEN ED: First Year Writing

Listening, speaking, reading and writing English for advanced students whose first language is not English. Emphasis on communication in a variety of academic and social settings. This course is self-paced to enable the student to concentrate on individual needs and problem areas. In addition to class meetings, students will be assigned a tutor to assist them with assignments.

LLC 1210. Language and Culture: Selves and Others (1).F.

This one-credit hour course is required for mentors in the Language and Culture Community. Class requirements will include readings and activities focusing on intercultural communication, as well as participation in intercultural skill building activities. Students (mentors) will work to implement what they practice and discuss in class with their mentees among the first-year students of the Language and Culture Community.

LLC 1530–1549. Selected Topics (1–4). On Demand.

Can be used for elective credit only.

LLC 2010. Mythology (3). On Demand.

Examination of the chief Graeco-Roman myths, their influence on artists and writers of western culture, and their place as examples of human mythopoeic tendencies. Open to all students. No prior knowledge of Latin required for enrollment. (MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

LLC 2025. Literature in Translation (3).F;S.

GEN ED: Literary Studies Designation; Aesthetic Perspective (Theme: "How We Tell Stories")

A study of various literatures in translation, from the medieval through the modern period, focusing on the language and culture areas featured in departmental offerings. Course content will vary and may concentrate on poetry, fiction, drama, or a combination. (MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

LLC 2050. Say What? Language in Mind and Society (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Mind")

An exploration of the issues surrounding human language and its relationship with thought, cognition and culture. Students will have the opportunity to learn how the sounds, structures and meanings of human languages are produced and interpreted, and will explore

variation among world languages as well as the relationship among language, society and culture. Different theoretical approaches to these issues will be explained. The course will also examine the interaction between language and mind and the neurological basis of human language, and will look at the application of linguistic principles in language learning and artificial intelligence.

LLC 2510. Sophomore Honors Seminar in Literature in Translation (3).F; S.

A study of various literatures in translation, from the medieval through the modern period, focusing on the language and culture areas featured in departmental offerings. Course content will vary and may concentrate on poetry, fiction, drama, or a combination of genres. (MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

LLC 3010. Second Language Acquisition (3).S. Alternate years.

A survey of the leading theories of language acquisition (experiential, cognitive, linguistic-theoretical) and their application to ESL pedagogy. The fundamental questions addressed in the course will be: how learners acquire a second language; similarities between first and second language acquisition; and, ramifications of second language acquisition for classroom instruction. Prerequisites: two years of a language other than English and LLC 2050 or ENG 3610.

LLC 3020. Language, Society and the Teaching of ESL (3).S. Alternate years.

This course examines the interaction of language in society and investigates the practices, tendencies and the associated difficulties of persons identified with one culture seeking to communicate with persons of another culture. The course emphasizes the effects of cross-cultural communication on second language teaching. Prerequisites: two years of a language other than English and LLC 2050 or ENG 3610.

LLC 3120. Teaching Foreign Languages (6).F.

A study of methods, instructional strategies, organization and administration for teaching second languages in the K-12 curriculum, designed to allow students to meet Standards for Second Language Teachers as defined by the NC State Board of Education. Experiences will include development of unit and lesson plans, classroom observations, and micro-teaching. It is strongly advised that other requirements for licensure (except student teaching) be completed prior to taking this course. (Same as CI 3120.) Required for B.S. degree with K-12 teacher licensure.

LLC 3500. Independent Study (1–3).F; S.

LLC 3520. Instructional Assistance (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

LLC 3530–3549. Selected Topics (1–4). On Demand.

LLC 3550. Survey of Chinese and Japanese Literatures (3). On Demand.

To examine works of representative masters in various genres from the beginning to early twentieth century, by studying the translation of the works. Class is conducted in English. Prerequisite: ENG 1100.

LLC 4010. Afro-Hispanic Literature (3). On Demand.

A survey of Afro-Hispanic contributions to Spanish and Spanish American Literature in works written by Afro-Hispanic authors. An examination of literary themes on the life and culture of Blacks in Spanish-speaking America in the texts of representative Latin American authors underscoring outstanding historical facts and sociological concepts.

LLC 4020. European Languages and Culture Through Films (3). On Demand.

Comprehensive analysis of European cultures through films, with special emphasis on the historical, political, social, and philosophical representations of life in selected countries in recent decades.

LLC 4550. Structure of Modern English for TESL (3).F. On Demand.

This course will investigate the structure of the English language from the viewpoint of modern linguistics. Focus will be placed on the role of grammar in the second language classroom and methods of teaching grammar in a communicative context. Prerequisites: two years of a language other than English and LLC 2050 or ENG 3610. [Dual-listed with LLC 5550.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

LLC 4551. Materials and Methods in TESL (3).S. On Demand.

A survey of various methods and materials to teach English to speakers of other languages. Discussion will focus on factors affecting how curricula are developed to most effectively teach speaking, listening, reading, writing, and culture to ESL students. Central to this course will be: an emphasis on various methods used to teach ESL holistically and in the context of a particular content; assessment; materials and resources; and the growth and development of the field of ESL. Prerequisite: two years of a language

other than English and LLC 2050 or ENG 3610. [Dual-listed with LLC 5551.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

LLC 4555. Practicum in TESL (3).S. On Demand.

This course provides future ESL teachers with experience teaching English to speakers of other languages in a supervised setting. As a part of this course, students complete a project/portfolio for use in future instruction. Prerequisites: two years of a language other than English and LLC 2050 or ENG 3610, LLC 3010, LLC 3020, and LLC 4550. May be taken concurrently with LLC 4551. [Dual-listed with LLC 5555.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PORTUGUESE (POR)

POR 1010. Beginning Portuguese I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading and writing Portuguese, with emphasis on the use of functional, communicative language. Open to students with no previous experience in Portuguese. Laboratory work required.

POR 1020. Beginning Portuguese II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing Portuguese with emphasis on the use of functional, communicative language. Prerequisite: POR 1010 or consent of the instructor. Laboratory work required.

POR 1040. Intermediate Portuguese I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: POR 1020 or consent of the instructor. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

POR 1050. Intermediate Portuguese II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of POR 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: POR 1040 or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

RUSSIAN (RSN)

RSN 1010. Beginning Russian I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading, and writing Russian, with emphasis on the use of functional, communicative language. Open to students with no previous experience in Russian. Laboratory work required.

RSN 1020. Beginning Russian II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing Russian with emphasis on the use of functional, communicative language. Prerequisite: RSN 1010 or consent of the instructor. Laboratory work required.

RSN 1040. Intermediate Russian I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: RSN 1020 or consent of the instructor. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

RSN 1050. Intermediate Russian II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of RSN 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: RSN 1040 or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

RSN 2010. Conversational Russian I (3).F.

Continues the goals of RSN 1050. Added emphasis on grammar, vocabulary, and stylistic improvements in speaking and writing through film, i.e., listening to Russian conversation as it is spoken today and practicing conversation patterns of modern Russian. Prerequisite RSN 1050 or consent of the instructor.

RSN 2015. Conversational Russian II (3).S.

A continuation of RUS 2010, with added emphasis on grammar, vocabulary and stylistic improvements in speaking and writing through discussion of modern Russian short fiction and other contemporary texts (e.g. newspapers, articles, and magazines). Prerequisite: RSN 2010 or consent of the instructor.

RSN 2500. Independent Study (1–3).On Demand.

RSN 3500. Independent Study (1–3).On Demand.

RSN 3520. Instructional Assistance (1).On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

RSN 3530–3549. Selected Topics (1–4).On Demand.

SPANISH (SNH)

SNH 1010. Beginning Spanish I (3).F.

Introduction to basic skills necessary for understanding, speaking, reading, and writing Spanish, with emphasis on the use of functional, communicative language. Open to students with no previous experience in Spanish or who Spanish placement test score indicates deficiency. Laboratory work required.

SNH 1020. Beginning Spanish II (3).S.

Continuation of skills development in understanding, speaking, reading, and writing Spanish with emphasis on the use of functional, communicative language. Prerequisite: SNH 1010 or consent of the advisor. Laboratory work required.

SNH 1030. Accelerated Beginning Spanish (6).F.On Demand.

Combines SNH 1010 and SNH 1020. Open to students with no previous experience in Spanish or whose Spanish placement score indicates deficiency. Meets daily for a total of 300 minutes per week. Laboratory work required.

SNH 1040. Intermediate Spanish I (3).F.

Focus on various aspects of culture, society, literature, traditions, and daily preoccupations through continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: adequate score on the placement test or SNH 1020, or SNH 1030, or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

SNH 1050. Intermediate Spanish II (3).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")

A continuation of SNH 1040. Focus on various aspects of culture, society, literature, traditions, and daily preoccupations with continued development of communicative language skills. Reinforcement, expansion, and synthesis of concepts of language and culture through contact with authentic materials. Prerequisite: SNH 1030 or SNH 1040, or the equivalent. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES)

SNH 1060. Accelerated Intermediate Spanish (6).S.

GEN ED: Local to Global Perspective (Themes: "Regions in Global Context" and "Performance of Culture")*

Combines SNH 1040 and SNH 1050. Prerequisite: SNH 1020 or SNH 1030, or the equivalent. Class meets daily for a total of 300 minutes per week. Laboratory work required. (MULTI-CULTURAL) (CORE: HUMANITIES) (*NOTE: Only 3 s.h. of this 6 s.h. course may count for general education credit in a theme.)

IN ORDER TO REGISTER FOR COURSES TAUGHT IN SPANISH ON THE 2000 LEVEL OR ABOVE, STUDENTS MUST COMPLETE SNH 1050 OR SNH 1060 OR MAKE AN ADEQUATE SCORE ON THE PLACEMENT TEST.

SNH 2005. Intensive Grammar Review (3).F.

Comprehensive review for thorough understanding of the elements of the Spanish language necessary for students wishing to pursue further studies in Spanish. Prerequisite: SNH 1050 or SNH 1060, or the equivalent, or an adequate score on the placement test. Laboratory work required. Required for minors and majors.

SNH 2010. Conversational Spanish (3).F;S.

Emphasis on the acquisition of a practical vocabulary and active use of the language. Prerequisite: SNH 1050 or SNH 1060 or the equivalent, or an adequate score on the placement test. Laboratory work required. Required for minors and majors.

SNH 2025. Introduction to Literature (3).S.

Development of skills necessary for understanding of genre, concepts of literary structure, language, and criticism through examination of selected works. Prerequisite: SNH 2005. Required for majors.

SNH 2500. Independent Study (1–3).F;S. On Demand.

SNH 3015. Selections of Spanish Literature I (3).F.

A study of the works of representative Spanish authors from the Middle Ages to the present. Prerequisite: SNH 2025. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

SNH 3025. Selections of Spanish American Literature (3).S.

A study of the works of representative Spanish American authors from the Precolumbian period to the present. Prerequisite: SNH 2025. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

SNH 3035. Spanish Phonetics and Diction (3).S.

A study of the sound system in Spanish, the phonetic alphabet and its use. Oral practice. Prerequisite: SNH 2010 or consent of the advisor. Laboratory work required. Required for majors.

SNH 3050. Culture and Civilization of Spain (3).F.

A description of historical events, currents of thought, and artistic trends which have significantly contributed to the shaping of a Spanish vision and practice of life. Prerequisites: SNH 2005 and SNH 2010, or consent of the advisor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

SNH 3055. Culture and Civilization of Spanish America (3).S.

A description of historical events, currents of thought, artistic trends, aboriginal and European inheritance, and other factors which significantly contributed to the shaping of a Spanish-American vision and practice of life. Prerequisites: SNH 2005 and SNH 2010, or consent of the advisor. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

SNH 3080. Advanced Grammar and Composition (3).F.

GEN ED: Junior Writing in the Discipline (WID)

Intensive study of the various types of expository writing with emphasis on the morphology and idiomatic expressions of Spanish. Prerequisites: SNH 2005 and SNH 2010, or consent of the advisor; and ENG 2001 or its equivalent. Required for majors. (WRITING)

SNH 3250. The Arts in Spain (3).SS.On Demand.

Taught in Spain and on study abroad. This course offers an overview of art produced in Spain throughout its history in the context of that history. Prerequisites: SNH 2005 and SNH 2010 or consent of the instructor.

SNH 3251. Spain Today (3).SS.On Demand.

This course offers an introduction to the social, political and cultural realities of contemporary Spain. Prerequisites: SNH 2005 and SNH 2010 or consent of the instructor.

SNH 3350. Film in Contemporary Spain (3).On Demand.

This elective course explores the cultural development of Spain in the last five decades through the work of contemporary Spanish filmmakers. The course will introduce students not only to internationally known Spanish films but also to films less well known to U.S. audiences. Prerequisites: SNH 2005 and SNH 2010 or consent of the instructor.

SNH 3415. Contemporary Spanish Poetry (3).On Demand.

The course presents a survey of the most influential poets writing in Spanish (Spain and Latin America) in the twentieth century, among them poets such as: Vicente Huidobro, César Vallejo, Juan Larrea, Jorge Luis Borges, Federico García Lorca, and Pablo Neruda. Selected texts are accompanied by a set of theoretical readings and critical essays. Prerequisite: SNH 2025 or consent of the instructor.

SNH 3425. U.S. Hispanic Literature (3).On Demand.

This course examines the literature produced by Spanish-speaking authors in what is now the United States from the 16th century to the present. Students will explore the history and diversity of U.S. Hispanic literature in depth and breadth including, but not limited to, the recent phenomenon known as the Chicano movement. A focus on contemporary Latino/a authors will enable students to develop a critical understanding of the cultural politics of border crossings. Prerequisite: SNH 2025 or consent of the instructor.

SNH 3500. Independent Study (1–3).F;S. On Demand.

SNH 3510. Junior/Senior Honors Seminar in Spanish (3). On Demand.

A study of major works, authors, genres, or literary movements in literature of the Spanish-speaking world (Iberian, Latin American, South American, or US Hispanic). Enrollment is by invitation of the department, or by application.

SNH 3520. Instructional Assistance (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

SNH 3530–3549. Selected Topics (1–4).F;S. On Demand.

SNH 4001. Hispanic Children's and Adolescent Literature (3).F.

Critical readings of literary works in different genres written for children and adolescents. Study of the evolution and theory of children's and adolescent literature in Latin America and Spain. Special focus on the cultural background, cross-cultural ties, and pedagogy of children's and adolescent literature. Prerequisites: senior standing and SNH 3080, or consent of the instructor. [Dual-listed with SNH 5001.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SNH 4002. Latin American Thought (3).On Demand.

This course is a study of the evolution of ideas in Latin America through the literature produced from the second part of the nineteenth century until the present. By reading and critically studying different literary genres (namely poetry, fiction, and essays), the student will gain a comprehensive understanding of how Latin-American poets, novelists, and essayists have shaped, transformed, mapped, and contributed to the evolution of what we call Latin American thought. Likewise, students will learn that Latin America is necessarily integrative and that it is and it has been interconnected with the world throughout history. The skills that the students will have the opportunity to learn in this course can be applied to a number of disciplines beyond literature, namely politics, negotiation, business, and conflict resolution. Prerequisites: SNH 2025 and junior or senior standing.

SNH 4003. Hispanic Short Fiction (3).S.

A study of the short story in Hispanic literature, which will examine the genre from a cultural and literary perspective. Readings and commentary of selected short stories, especially by women and ethnic authors, will trace the history of the genre and explore its main themes. Primary sources will be complemented by literary historical and critical readings. Prerequisites: senior standing and SNH 3080, or consent of the instructor. [Dual-listed with SNH 5003.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SNH 4063. Hispanic Life-Ways (3).F.

An overview of present-day Spain and Spanish America through a thematic approach to such topics as geography, demography, national festivals, lifestyles and cultural patterns. Examination of the contributions of Spain and Spanish America and their influence on the United States. Prerequisites: junior or senior standing and SNH 2010. (WRITING; MULTI-CULTURAL)

SNH 4075. Advanced Conversation (3).S.

Development of skills necessary to express ideas fluently on contemporary, cultural, literary, and professional issues. Prerequisites: junior or senior standing and SNH 2010 or consent of the advisor. (SPEAKING)

SNH 4090. Business Spanish (3). On Demand.

Focus on various types of business correspondence, with emphasis on current, specialized vocabulary pertinent to trade and business. Prerequisites: junior or senior standing and SNH 2010 or consent of the advisor.

SNH 4510. Senior Honors Thesis (3).F;S.

Independent study and research. Honors thesis directed by a member of the Spanish faculty in the Department of Languages, Literatures, and Cultures and graded by a departmental committee. Oral presentation. Prerequisites: completion of LLC 2510 and SNH 3510 with at least a "B" average.

SNH 4555. History of the Spanish Language (3).S.

Study of the evolution of the Spanish language, with particular emphasis on the history of standardized Spanish and the development of regional variations of spoken Spanish. The approach takes into account the social, cultural, and political factors that have contributed to linguistic change and have shaped the complex fabric of historical and contemporary varieties of Spanish. Prerequisites: senior standing and SNH 3035, or consent of the instructor. [Dual-listed with SNH 5555.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SNH 4565. Advanced Spanish Expression (3).F. On Demand.

GEN ED: Capstone Experience

An advanced language course where students will have the opportunity to perfect their mastery of the spoken and written language. Students will explore different writing genres and model their work on the literary and cultural narratives written by experienced Spanish writers, and will be provided with the necessary tools to develop their oral language skills. Prerequisites: senior or graduate standing and SNH 3080, or consent of the instructor. (WRITING) [Dual-listed with SNH 5565.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of Mathematical Sciences (MAT/STT)

Mark C. Ginn, Chair

Richard E. Klima, Assistant Chair

Todd A. Abel

Terry G. Anderson

Alan T. Arnholt

William C. Bauldry

Michael J. Bossé

William J. Cook

Deborah A. Crocker

Ross M. Gosky

Sarah J. Greenwald

Holly P. Hirst

Jeffry L. Hirst

Phillip E. Johnson

Gary D. Kader

Anita N. Kitchens

Vicky W. Klima

Witold A.J. Kosmala

Betty B. Long

Eric S. Marland

Katherine J. Mawhinney

Katrina M. Palmer

Gregory S. Rhoads

René A. Salinas

Tracie McLemore Salinas

Jose A.T. Sanqui

Mary E. Searcy

Kevin L. Shirley

Jill E. Thomley

The Department of Mathematical Sciences assists students in mastering quantitative skills relevant to careers in business, industry, government, and teaching at the elementary, secondary, and college levels. The Bachelor of Arts and Bachelor of Science degrees in the mathematical sciences offer a flexible curriculum adaptable to the professional objectives of the individual. By combining a strong background in the mathematical sciences with appropriately chosen study in related fields, the degree programs prepare students for their desired careers. The Department offers a Bachelor of Science degree in Actuarial Sciences; a Bachelor of Science degree in Statistics; a Bachelor of Science degree in Mathematics (with six concentration options); a Bachelor of Science degree in Mathematics, Secondary Education; and a Bachelor of Arts degree in Mathematics.

The Bachelor of Science degree in Actuarial Sciences (106A/52.1304)

The program of study is available at: www.programsofstudy.appstate.edu/actuarial-sciences-bs-106a-2012-2013

The Bachelor of Arts degree in Mathematics (261A/27.0101)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-ba-261a-2012-2013

The Bachelor of Science degree in Mathematics (260*/27.0101)

For the Bachelor of Science in Mathematics, students must select one of the following concentrations:

Business concentration (260D)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-bs-business-260d-2012-2013

Computation concentration (260E)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-bs-computation-260e-2012-2013

General Mathematics concentration (260B)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-bs-general-mathematics-260b-2012-2013

Life Sciences concentration (260F)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-bs-life-sciences-260f-2012-2013

Physical Sciences concentration (260G)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-bs-physical-sciences-260g-2012-2013

Statistics concentration (260H)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-bs-statistics-260h-2012-2013

The Bachelor of Science degree in Mathematics, Secondary Education (262A/13.1311)[T]

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-secondary-education-bs-262a-2012-2013

The Bachelor of Science degree in Statistics (289A/27.0501)

The program of study is available at: www.programsofstudy.appstate.edu/statistics-bs-289a-2012-2013

Every mathematical sciences major is assigned an advisor. Degree candidates should seek approval of their program of study as early as possible, but no later than three semesters before their intended date of graduation. Students pursuing multiple majors are

especially encouraged to seek early departmental advising. Visit the departmental web site at www.mathsci.appstate.edu or contact the departmental chair at (828) 262-3050 for additional information.

A minor in Mathematics (260/27.0101) (13 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/mathematics-minor-260-2012-2013

A minor in Statistics (289/27.0501) (12 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/statistics-minor-289-2012-2013

Honors Program in Mathematical Sciences

The Mathematical Sciences Honors Program offers honors courses to students who have exhibited outstanding ability and interest in mathematics. Students who successfully complete MAT 3510 with at least a grade of "B" and have earned at least a 3.45 GPA in mathematics courses are eligible for MAT 4510, Honors Thesis. Students who earn at least a "B" in MAT 4510 and complete a total of at least nine semester hours of honors courses in mathematics will graduate with "honors" in mathematics. Those meeting these requirements with grades of "A" in the honors courses and earning a 3.65 GPA in mathematics will graduate with "highest honors" in mathematics. Honors courses carry full credit toward the major or, for non-majors, full elective credit.

Master of Arts Degrees in Mathematics

The Department of Mathematical Sciences offers a Master of Arts degree in Mathematics, Education with a concentration in Secondary School Teaching, and a general Master of Arts degree in Mathematics with a concentration in College Teaching (non-teaching). For information about these degree programs, please consult the *Graduate Bulletin*.

Courses of Instruction in Mathematics (MAT) and Statistics (STT)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

MATHEMATICS HONORS (MAT)

MAT 1120. Calculus With Analytic Geometry II, Honors (4).F.

An honors section of MAT 1120. Enrollment by invitation of the departmental honors committee. A study of the logarithmic and exponential functions, circular functions and their inverses, techniques of integration, improper integrals, infinite series, Taylor polynomial and power series. Prerequisite: MAT 1110 (with a grade of "C-" or higher). (NUMERICAL DATA) (CORE: MATHEMATICS) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 2510. Sophomore Honors Seminar (4).S.

Proof techniques and their application to selected mathematical topics. Enrollment by invitation of the departmental honors committee. (Students may not receive credit for both MAT 2510 and MAT 2110.) Prerequisite: MAT 1120. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 3510. Junior Honors Seminar (3).F;S.

Development of selected concepts related to modern algebra, analysis, differential equations, and/or probability/statistics not generally found in the traditional curriculum. Enrollment by invitation of departmental honors committee. Prerequisites: calculus sequence, modern algebra, linear algebra. May be repeated for credit when content is not duplicated. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 4510. Senior Honors Thesis (3).F;S.

GEN ED: Capstone Experience

Independent study and research. Thesis directed by a member of the Department of Mathematical Sciences. Prerequisites: completion of MAT 3510 and a 3.45 GPA in mathematics. Enrollment by invitation of the departmental honors committee. (WRITING)

MATHEMATICS (MAT)

MAT 0010. Developmental Mathematics (3).F;S.

This course is intended for those persons who have had previous exposure to Algebra but who still have deficiencies and are not prepared for MAT 1010 or MAT 1020. It is mandatory for students whose scores on the mathematics placement test indicate a deficiency. The course content is elementary algebra. Self-development and study skills are emphasized. The course meets five days per week, and counts as three hours credit toward course load and full-time student eligibility, but does not count toward hours required for graduation (see "Institutional Credit").

MAT 1010. Introduction to Mathematics (4).F;S.

GEN ED: Quantitative Literacy

This course is an introduction to mathematical problem solving. Emphasis is on the development of conceptual understanding rather than on computational drill. Using appropriate computational tools, including computers, is fundamental to the course. All sections cover personal finance and consumer statistics. One or two additional modules come from such disciplines as ecology, art, music, astrophysics, cryptology, resource allocation, construction, and election theory. MAT 1010 is not open to students with credit for MAT 1020, MAT 1025, MAT 1030, or MAT 1110. (CROSS-DISCIPLINARY; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) (CORE: MATHEMATICS)

MAT 1020. College Algebra with Applications (4).F;S.

GEN ED: Quantitative Literacy

A study of the algebraic concepts and their applications. Topics include algebraic relations and functions, equations, exponents and logarithms, inequalities, linear programming, and elementary probability. Problem solving will be emphasized throughout. Not open to students who have credit for MAT 1025, MAT 1030 or MAT 1110. Not appropriate preparation for MAT 1110. Prerequisite: must pass placement test or MAT 0010. (NUMERICAL DATA) (CORE: MATHEMATICS) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 1025. Algebra and Elementary Functions (4).F;S.

GEN ED: Quantitative Literacy

An overview of algebraic concepts and a thorough treatment of functions such as rational, logarithmic, exponential, and trigonometric. Included will be a rigorous treatment of analytic geometry. Recommended for students with less than four units of high school mathematics who plan to take MAT 1110. Students may not receive credit for MAT 1020 after receiving credit for MAT 1025. Not open to students who have credit for MAT 1110. Prerequisite: must pass placement test or MAT 0010. (NUMERICAL DATA) (CORE: MATHEMATICS) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 1030. Calculus With Business Applications (4).F;S.

GEN ED: Quantitative Literacy

An introduction to the concepts of differentiation and integration with particular emphasis upon their applications to solving problems that arise in business and economics. This course is designed primarily for business and economics majors and is not open to mathematics majors or students with credit for MAT 1110. Prerequisite: MAT 1020 or MAT 1025 or equivalent. (NUMERICAL DATA; COMPUTER) (CORE: MATHEMATICS) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 1110. Calculus With Analytic Geometry I (4).F;S.

GEN ED: Quantitative Literacy

A study of limits, continuity, differentiation, applications of the derivative, the differential, the definite integral, the fundamental theorem, and applications of the definite integral. Prerequisite: MAT 1025 (with a grade of "C-" or higher) or equivalent. (NUMERICAL DATA) (CORE: MATHEMATICS) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 1120. Calculus With Analytic Geometry II (4).F;S.

A study of the logarithmic and exponential functions, circular functions and their inverses, techniques of integration, improper integrals, infinite series, Taylor polynomial and power series. Prerequisite: MAT 1110 (with a grade of "C-" or higher). (NUMERICAL DATA) (CORE: MATHEMATICS) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 2030. Mathematics for the Elementary School Teacher (3).F;S.

This course is an introduction to mathematical concepts, processes, and reasoning for the prospective elementary school teacher. Topics include patterns, relationships, functions, data, probability, and statistics. Not open to mathematics majors or minors. Prerequisite: MAT 1010 or permission of the instructor. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 2110. Techniques of Proof (3).F;S.

A study of methods of proof used in mathematics. Topics include propositional calculus, predicate calculus, and several first order theories. Prerequisite: MAT 1120 or permission of the instructor. (WRITING)

MAT 2130. Calculus With Analytic Geometry III (4).F;S.

A study of parametric equations, vectors, vector-valued functions, function of several variables, double and triple integrals, and vector analysis. Prerequisite: MAT 1120 (with a grade of "C-" or higher). (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 2240. Introduction to Linear Algebra (3).F;S.

A study of vectors, matrices and linear transformations, principally in two and three dimensions, including treatments of systems of linear equations, determinants, and eigenvalues. Prerequisite: MAT 1120 or permission of the instructor. (COMPUTER)

MAT 2310. Computational Mathematics (3).F.

This course engages students in mathematical investigations in various computational environments. Students will investigate numerical computation in symbolic systems and spreadsheets as well as traditional programming environments. Topics covered include basic programming structures, computer arithmetic, and mathematical applications. Instructor will choose from applications such as statistical calculations, infinite series estimation, root finding, and integration. Prerequisite: MAT 1120. (COMPUTER)

MAT 2500. Independent Study (1–3).F;S.

MAT 3010. Survey in the History of Mathematics (2).F.

A study of mathematics as a human intellectual endeavor impacting our culture, history, and philosophy. Includes analyses from the mathematical, historical, and philosophical perspectives, of several significant developments from various fields of mathematics. The specific developments considered will vary from semester to semester. Prerequisites: MAT 1120 and either MAT 2110 or MAT 2510. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

MAT 3015. Junior Seminar for Mathematics Majors in Education (2).S.

This course will address mathematics content and pedagogy issues of importance to secondary mathematics teachers. The North Carolina Mathematics Curriculum for high school will be introduced with emphasis on algebra and discrete mathematics. Class discussions, group activities, written assignments, and oral presentations will be integral parts of the course. A field experience and other professional development activities will be required outside of class. Prerequisites: MAT 2240 and MAT 3010.

MAT 3030. Investigating Mathematics and Learning (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course prepares prospective teachers to construct a comprehensive understanding of effective mathematics instruction in grades K-6 with selected instructional activities designed for implementation during field placement experiences. The course includes content, methods, and materials of elementary school mathematics instruction. Topics include the content strand number and operations and process strands connections, communication, problem solving, reasoning and proof, and representation. The course emphasizes instructional design principles for teaching number and operation. Effective communication of mathematical ideas is a focal point of the course. Prerequisites: MAT 2030 and ENG 2001 or its equivalent. (Same as CI 3030.) (WRITING)

MAT 3110. Introduction to Modern Algebra (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Topics covered include equivalence relations, groups, subgroups, homomorphisms, isomorphisms, and a survey of other algebraic structures such as rings, integral domains, and fields. Prerequisites: MAT 2110 or MAT 2510, and ENG 2001 or its equivalent. Corequisite: MAT 2240. (WRITING)

MAT 3130. Introduction to Differential Equations (3).F;S.

A theory of ordinary differential equations with applications and classical methods for their solutions including series and Laplace transform techniques. Some numerical methods and differential equations software might be introduced. Prerequisite: MAT 1120, with MAT 2240 recommended.

MAT 3220. Introduction to Real Analysis I (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

A treatment of the calculus of functions of real variables including sequences, limits of functions, continuity and differentiation. Prerequisites: MAT 2110 or MAT 2510, and ENG 2001 or its equivalent. (WRITING)

MAT 3310. Discrete and Continuous Mathematical Models (3).F.

An introduction to the process of mathematical modeling. Topics will include an overview of the modeling process as well as graph theory, discrete and continuous dynamics, linear programming, combinatorics, and curve fitting with a particular emphasis on their use in modeling real world situations. It will also contain a treatment of topics from calculus, including the derivative and definite integral with an emphasis on their use in solving real world problems. Prerequisite: MAT 1120. Corequisite: MAT 2240 or permission of the instructor. (SPEAKING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 3330. Financial Mathematics (3).F.

The objective of this course is to help students learn about the theory of interest as covered on the Casualty Actuarial Society (CAS)/Society of Actuaries (SOA) Course 2 examination. Topics include mathematical theory of compound interest, force of interest, annuities, equations of value, yield rates, amortization, sinking funds, bonds, depreciation, and other topics in finance. The concepts and models that will be discussed are a key part of modern actuarial science. Prerequisite: MAT 1120 or permission of the instructor.

MAT 3350. Introduction to Mathematical Biology (3).S.

An introduction to the mathematics of modeling biological systems. Topics will be discussed in the context of both continuous and discrete models and be taken from a broad range of biological fields such as population ecology, evolutionary biology, cell biology, genetics, and molecular biology. Numerical techniques for analysis and simulation will be introduced. Prerequisites: MAT 1120 and junior standing. (CROSS-DISCIPLINARY)

MAT 3500. Independent Study (1–3).F;S.

MAT 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

MAT 3530–3549. Selected Topics (1–4). On Demand.

MAT 3610. Introduction to Geometry (3).F;S.

A study of the development of Euclidean geometry through multiple perspectives, including synthetic and metric. Topics to be considered include parallelism, similarity, measurement, constructions, an axiomatic approach to polyhedra, and at least one non-Euclidean geometry. The course will focus on concept development and connections among mathematical perspectives. Prerequisites: MAT 1120 and either MAT 2110 or MAT 2510. (SPEAKING)

MAT 3910. Introduction to the Logic and Structure of Mathematics I (4).F;S.

To be included are topics from abstract algebra, geometry, number theory, mathematical logic, trigonometry and an intuitive approach to calculus. Prerequisite: junior or senior standing or permission of the instructor. (SPEAKING)

MAT 3920. Introduction to the Logic and Structure of Mathematics II (4).S.

This course is an extension of 3910. Prerequisite: MAT 3910 or permission of the instructor. (SPEAKING)

MAT 4010. Current Topics in Mathematics (1–3). On Demand.

Permission to register must be given by the departmental chair. (WRITING)

MAT 4015. Senior Seminar for Mathematics Majors in Education (3).F.

This course is an extension of the junior seminar for mathematics majors in education. The course will extend the examination of the North Carolina Mathematics Curriculum for high school with emphasis on geometry and mathematical modeling. Class discussions, group activities, written assignments, and oral presentations will be integral parts of the course. A field experience and other professional development activities are required outside of class. Prerequisites: MAT 3015 and a 4000 level mathematics or statistics course in the program of study for secondary mathematics majors in education or permission of the instructor. (SPEAKING)

MAT 4040. Mathematics Capstone (1).F;S.

GEN ED: Capstone Experience

MAT 4040 satisfies the general education capstone requirement for mathematics majors with concentrations other than education. Students will explore current, relevant, or advanced undergraduate topics in mathematics and the relationships of mathematics with other fields. Oral and written communication skills are emphasized. Prerequisite: senior standing in mathematics or permission of the instructor.

MAT 4140. Differential Geometry (3). On Demand.

An introductory course in the differential geometry of curves and surfaces in space, presenting both theoretical and computational components, intrinsic and extrinsic viewpoints, and numerous applications. The geometry of space-time will also be considered. Prerequisite: MAT 2130.

MAT 4220. Introduction to Real Analysis II (3).On Demand.

A continuation of MAT 3220, including the Riemann integral, infinite series, and sequences and series of functions. Prerequisite: MAT 3220. (SPEAKING)

MAT 4310. Numerical Methods (3).S.

Development and application of numerical methods. Topics covered include computer arithmetic and error, interpolation and approximation, roots of nonlinear equations, and numerical integration. Also covered: solution techniques for either linear systems of equations or ordinary differential equations. Prerequisite: MAT 2310 or permission of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MAT 4330. Senior Seminar in Actuarial Sciences (3).S.

GEN ED: Capstone Experience

A course designed to provide majors in Actuarial Sciences the opportunity to study actuarial problems from a variety of sources. The emphasis will be on the oral and written presentation of results. The course should prepare the student for making the transition from academic courses to actuarial practice. Students taking this course should have completed most of the Actuarial Sciences curriculum. Students are also encouraged to register for at least one Society of Actuaries professional exam during this course. Prerequisite: MAT 3330. Corequisite: STT 4865. (WRITING)

MAT 4340. Introduction to Operations Research (3). On Demand.

A thorough study of linear programming including duality theory and sensitivity analysis. At least two other topics related to mathematical applications in the management sciences queuing theory, Markov processes, game theory, decision analysis, network analysis, etc. will be covered. Prerequisites: MAT 2240 and either STT 3850 or STT 4250. [Dual-listed with MAT 5340.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4400. Senior Research (1–3).F;S.

A research project under the supervision of a mathematics faculty mentor. Written updates of progress will be completed every five weeks. A formal, typeset technical report of the results is to be submitted to the faculty upon completion of the project. Students cannot receive credit for both MAT 4510 and MAT 4400. Prerequisite: one 4000- level mathematics course. (WRITING)

MAT 4420. Dynamical Systems Theory (3).F.

Development and application of the theory of dynamical systems. Topics include phase plane analysis, bifurcation theory, and chaos theory. Basic applications relevant to each topic are included. Additional topics may include fractional dimensions, differential equations, and cellular automata. Prerequisite: MAT 3130 or MAT 3310.

MAT 4560. Methods of Applied Mathematics (3). On Demand.

The content may vary depending on the instructor. Suggested topics are: Fourier series; Sturm-Liouville problems; special functions and transforms; partial differential and nonlinear differential equations with applications; numerical methods. Prerequisites: MAT 3130 with MAT 3220 recommended. Knowledge of computers might be helpful. [Dual-listed with MAT 5360.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4570. Advanced Differential Equations (3).On Demand.

Usual topics include: power series solutions; special functions; methods and theory of systems; existence and uniqueness theorems and continuations of solutions; Sturm theory; nonlinear differential equations; numerical methods. Prerequisites: MAT 2240, MAT 3130, with MAT 3220 recommended. [Dual-listed with MAT 5370.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4580. Partial Differential Equations (3). On Demand.

Topics include: classification and properties of elliptic, hyperbolic, and parabolic equations; separation of variables; Laplace and Fourier transforms; initial and boundary value problems; eigenfunction expansions; solution of Laplace, wave and heat equations; and solitons. Prerequisite: MAT 3130. MAT 3220 recommended. [Dual-listed with MAT 5380.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4710. Introduction to Topology (3).On Demand.

A study of the basic concepts of general topological spaces including such topics as metric spaces, continuous functions, connectedness, product spaces, and compactness. Prerequisite: MAT 3220. (SPEAKING) [Dual-listed with MAT 5710.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4720. Abstract Algebra (3).On Demand.

A study of ring and field theory, including integral domains, ideals, polynomial rings, vector spaces, and algebraic field extensions. Prerequisite: MAT 3110 or permission of the instructor. (SPEAKING) [Dual-listed with MAT 5210]. Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4910. Informal Geometry (3).F.

An informal treatment of all aspects of geometry. The topics considered include congruence, measure of segments and angles, constructions, parallels and parallelograms, similarity, space geometry, areas and volumes, and measurements related to circles. Prerequisite: MAT 3910 or MAT 3920 or permission of the instructor. (SPEAKING) [Dual-listed with MAT 5965.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4930. Basic Concepts of Probability and Statistics (3). On Demand.

This course examines the concepts underlying the elementary and middle school curriculum in probability and statistics. Probability models will be studied using both mathematical approaches and simulations. Statistics will be presented as a problem solving process involving question formulation, data collection, data analysis and the interpretation of results. Prerequisite: MAT 3910 or MAT 3920 or permission of the instructor. [Dual-listed with MAT 5935.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MAT 4990. Numerical Linear Algebra (3). On Demand.

Methods for solving systems of linear equations with an emphasis on large, sparse systems. LU factorization including storage schemes, graph theory, ordering algorithms, and block factorization. Iterative methods including Jacobi, SOR, and conjugate gradient. Eigenvalue methods including power method, QR factorization, and Lanczos methods. Parallel matrix computations. Prerequisite: MAT 4310. [Dual-listed with MAT 5390.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

STATISTICS (STT)

STT 1810. Basic Statistics (3).F;S.

GEN ED: Quantitative Literacy

An introduction to statistical problem solving. Topics include organization and presentation of data; measures of location, variation, and association; the normal distribution, sampling distributions, and statistical inference. Emphasis will be on conceptual understanding and interpretation of results rather than theoretical development. Statistical software will be utilized in the analysis of data and in the development of statistical and probabilistic concepts. STT 1810 is not open to students with credit for STT 2810, STT 2820, STT 3850, or STT 4811. Prerequisite: MAT 1010 or equivalent. (NUMERICAL DATA; COMPUTER). (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 2810. Introduction to Statistics (3).F;S.

GEN ED: Quantitative Literacy

An introduction to statistical problem solving and methodology. Topics include tabulation and graphical representations of univariate and bivariate data; probability, statistical distributions, confidence intervals and hypothesis testing. Emphasis will be on conceptual understanding and interpretation of results rather than theoretical development. Statistical software will be utilized in the analysis of data and in the development of statistical and probabilistic concepts. STT 2810 is not open to students with credit for STT 1810, STT 2820, STT 3850, or STT 4811. Prerequisite: MAT 1010 or equivalent. (NUMERICAL DATA; COMPUTER). (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 2820. Reasoning with Statistics (4).F;S.

GEN ED: Quantitative Literacy

An introduction to the design, analysis, and interpretation of statistical studies. Topics include representations for univariate and bivariate data distributions; designed methods for data collection and the role of randomness in statistical studies; probability and statistical distributions; statistical estimation, and statistical significance. Emphasis will be on the development of conceptual understanding and interpretation of results through simulation rather than a theoretical development. Statistical software will be utilized in the analysis of data in the development of statistical and probabilistic concepts. STT 2820 is not open to students with credit for STT 1810, STT 2810, STT 3850, or STT 4811. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 3500. Independent Study (1–4).F;S.

STT 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

STT 3530-3549. Selected Topics (1–4). On Demand.

STT 3820. Statistical Methods I (3).F;S.

GEN ED: Quantitative Literacy

A continuation of STT 2810 or STT 2820. A study of parametric and non-parametric statistical methods and inferential procedures. Topics commonly covered include an introduction to methods of data collection such as simulation, surveys and experiments; single-parameter inference for means and proportions; techniques for comparing two distributions; error rates and power; inference for simple linear regression and multiple regression least squares models; introductions to one-way and two-way analysis of variance models; and contingency table analysis. Nonparametric alternatives are presented for many methods in the course when the assumptions for parametric methods are not met. Emphasis is on a non-theoretical development of statistical techniques and on the interpretation of statistical results. Statistical software will be utilized in analysis of data. Prerequisite: STT 2810 or STT 2820 or equivalent. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 3830. Statistical Methods II (3).F.Odd-numbered years.

A continuation of STT 3820. Topics commonly covered include experimental design; intermediate topics in least-squares regression modeling, such as multiple regression, residual analysis, transformations, higher order model terms and interactions, categorical predictors, diagnostic statistics for assessment of model fit, and model selection; one-way and two-way analysis of variance, including blocking and factorial designs. Emphasis is on a non-theoretical development of statistical techniques and on the interpretation of statistical results. Statistical software will be utilized in the analysis of data. Prerequisite: STT 3820 or equivalent. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 3840. Elementary Probability and Survey Sampling (3).On Demand.

The course begins with an introduction to discrete probabilities and related applications. In particular, the application of probability to sampling is studied in detail. The remainder of the course is devoted to the theory of sampling and sampling techniques. Applications are highlighted through examples and illustrated problems. Prerequisite: STT 2810 or STT 2820 or permission of the instructor. (WRITING)

STT 3850. Statistical Data Analysis I (4).F;S.

This course provides an overview of modern statistical data analysis. Programming with data, including simulations and bootstrapping, will be an integral part of the course. Techniques for parsing univariate and multivariate data sets will be examined. Coverage of probability, random variables, standard probability distributions and statistical sampling distributions will be sufficient to prepare the student for statistical inference. Inferential topics will include parameter estimation, hypothesis testing for proportions, means and medians, goodness of fit tests, and tests for independence. Standard and computationally intensive regression techniques will also be covered. Prerequisite: MAT 1110. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 3851. Statistical Data Analysis II (3).S.

GEN ED: Junior Writing in the Discipline (WID)

The goal of this course is to provide students with exposure to a variety of statistical procedures in order to develop their ability to understand statistically based research. As the course will focus on proper data analysis, sufficient practice with solving real problems using real data will be required. A variety of standard statistical methodologies will be covered including multiple regression, the analysis of variance, and the analysis of covariance. Additionally, several computationally intensive methods will be explored including, but not limited to, areas such as robust regression, bootstrapping, and permutation tests. Students will be required to complete several data analysis projects that utilize professional editing tools and demonstrate reproducible statistical research. Prerequisites: STT 3850 and ENG 2001 or its equivalent. (WRITING)

STT 4250. Probability Modeling with Applications (3). On Demand.

An introduction to probability modeling. Topics include a study of sample spaces, counting rules, conditional probability and independence, random variables and their properties, and applications. Prerequisite: MAT 1120.

STT 4811. Statistical Concepts and Applications I (3).F.

This course introduces students at the post-calculus level to statistical concepts, applications, and theory. Topics include: comparisons with categorical and numerical data, statistical significance, sampling and sampling distributions, and randomized experiments. Statistical concepts will be developed through simulations, and applications will focus on statistical problem-solving. The course will introduce prospective teachers to the content and pedagogy recommended by the National Council of Teachers of Mathematics' Standards and the American Statistical Association's Guidelines with regard to statistics and probability at the introductory level. Prerequisite: MAT 1120. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with STT 5811.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

STT 4812. Statistical Concepts and Applications II with Probability Modeling (3).S.

This course is a continuation of STT 4811. Topics include: exploring and modeling relationships, comparing several populations, combinatorial analysis, axiomatic probability, and conditional probability. Statistical concepts will be developed through simulations, and applications will focus on statistical problem-solving. The mathematical foundations of probability will be developed and explored through simulations. The course will prepare prospective teachers to implement the National Council of Teachers of Mathematics' Standards and the American Statistical Association's Guidelines with regard to statistics and probability at an intermediate level. Prerequisite: STT 4811. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with STT 5812.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

STT 4820. Design and Analysis of Experiments (3).On Demand.

The course begins with a review of sampling, sampling distributions, and simple comparative experiments. Single factor experiments with both fixed and random effects are considered. Designs illustrated include randomized blocks, latin squares and factorial experiments. Mixed models and rules for expected mean square are presented. Model adequacy, sample size considerations, power determinations and restrictions on randomization procedures are discussed. The use of statistical software packages is integrated throughout the course. Prerequisite: STT 3820, or permission of the instructor. (WRITING) [Dual-listed with STT 5820.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

STT 4830. Linear Regression Models (3).F.

An introduction to least squares estimation in simple and multiple regression models. The matrix approach is used in the more general multiple regression model. Considerable attention is given to the analysis of variance, aptness of the model tests, residual analysis, the effects of multicollinearity, and variable selection procedures. Prerequisites: MAT 2240 and STT 3830. (WRITING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with STT 5830.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

STT 4840. Forecasting and Time Series (3).F.

Introduction to time series regression and forecasting methodologies applied to problems in business and the social sciences. Topics include forecasting with ARMA and other models, smoothing techniques, dealing with non-stationary data, time series regression, unit root tests, lags, ARCH and GARCH. Emphasis is placed upon the application of forecasting and time series regression to economic and business data using computer technology. Prerequisites: MAT 2240 and STT 3851 or permission of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

STT 4860. Probability Models and Statistical Inference I (3).F.

A development of the mathematical foundations of probability and statistical inference. Topics include data collection and organization, counting techniques, axiomatic probability, discrete probability distributions, continuous probability distributions, sampling distributions, point and interval estimation, and tests of hypotheses on a single parameter. Prerequisite: MAT 2130.

STT 4865. Statistical Inference II (3).S.

A continuation in the development of the mathematical foundations of statistical inference. Topics include estimation and tests of hypotheses based on two samples, analysis of variance, simple linear regression and correlation, the analysis of categorical data, and distribution free procedures. Prerequisite: STT 4860.

STT 4870. Senior Seminar in Statistics (2).On Demand.

GEN ED: Capstone Experience

A course designed to provide majors in statistics and other related fields the opportunity to study statistics problems from a variety of sources and to examine their statistical analyses. The emphasis will be on the oral and written presentations of statistical results. The course should prepare the student for making the transition from academic courses to statistical practice. Students taking this course should have completed most of the courses offered in the statistics curriculum. Prerequisite: permission of the instructor. (WRITING; SPEAKING)

Department of Philosophy and Religion (PHL/REL)

Conrad E. Ostwalt, Jr., Chair

Laura Ammon

Shawn D. Arthur

Christopher J. Bartel

Anna M. Cremaldi

Rodney K. Duke

Thomas B. Ellis

Sandie L. Gravett

Kim Q. Hall

Alan J. Hauser

William M. Hutchins

Jack Kwong

Monique Lanoix

T. Patrick Rardin

Randall W. Reed

Raymond S. Ruble

Richard A. Spencer

Derek Stanovsky

Jesse Taylor, Jr.

Jay A. Wentworth

The objectives of the Department of Philosophy and Religion are to provide students with a critical study of historical and contemporary figures and ideas in philosophy and religious studies; to promote critical examination of and reflective discourse about important ideas, institutions, and practices that have shaped and continue to shape our world; and to cultivate the skills necessary for advancing knowledge in the disciplines of philosophy and religion.

In keeping with these objectives, the department offers two undergraduate majors and minors: a major and minor in Philosophy, and a major and minor in Religious Studies. For participants in the graduate program, a limited amount of graduate work is available, including a graduate minor in Philosophy, and one in Religious Studies. The graduate minors are designed for students on an individual basis. For further information, contact the departmental chair.

Philosophy provides an opportunity to study and critically engage with ideas that have grounded historical and contemporary understanding of the nature of knowledge, truth, power, reality, beauty, mind, body, identity, experience, justice, and morality. A degree in Philosophy prepares students to clarify complex issues; to reason clearly, critically, and persuasively; and to analyze and solve problems.

Religious Studies provides an opportunity to study and critically engage religious beliefs, practices, and institutions that have shaped our world. A degree in Religious Studies prepares students to participate in the academic study of religion; to understand and interrogate ideas informing diverse religions in the world; and to engage in clear and critical discussion of religious issues.

Honors Program in Philosophy and Religious Studies

The Department of Philosophy and Religion offers an honors program comprised of courses at the introductory, intermediate, and advanced levels. Special honors sections in philosophy will be designated from the following courses: PHL 1000, PHL 1100, PHL 2000. Special honors sections in religious studies will be designated from the following courses: REL 1110, REL 2010, REL 2020. The Senior Honors Thesis courses, PHL 4510 or REL 4510, are offered exclusively as honors courses. Invitation to enrollment in honors courses may be extended to any qualified student. However, to graduate with "honors in philosophy" or "honors in religious studies," a student must be a Philosophy major or a Religious Studies major who has completed at least 9 semester hours of work in departmental honors courses with a cumulative GPA of 3.4 or above in those courses. Three of the hours taken must be either PHL 4510 or REL 4510, Senior Honors Thesis. For additional details regarding honors in philosophy and honors in religious studies, contact the Director of Departmental Honors, Dr. Jesse Taylor.

Internship Program

The department offers an internship program to augment the academic program of majors and minors who will be seeking employment upon graduation. Internship programs are devised on an individual basis. For more information, contact Dr. Monique Lanoix, Director of the department's Internship Program.

Philosophy

The Bachelor of Arts degree in Philosophy (101A/38.0101)

The program of study is available at: www.programsofstudy.appstate.edu/philosophy-ba-101a-2012-2013

Minor in Philosophy (266/38.0101) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/philosophy-minor-266-2012-2013

Religious Studies

The Bachelor of Arts degree in Religious Studies (102A/38.0201)

The program of study is available at: www.programsofstudy.appstate.edu/religious-studies-ba-102a-2012-2013

Minor in Religious Studies (103/38.0201) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/religious-studies-minor-103-2012-2013

Courses of Instruction in Philosophy (PHL) and Religious Studies (REL)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

PHILOSOPHY (PHL)

PHL 1000. Introduction to Philosophy (3).F;S.

A general introduction to the basic patterns and methods of philosophy as presented through representative thinkers. (CORE: HUMANITIES)

PHL 1040. Critical Thinking Skills (3).F;S.

An introduction to the art of critical thinking, including identifying problems, locating assumptions and analyzing their impact on the products of thought, assessing causal claims, learning problem solving strategies, and examining creativity. (WRITING) (CORE: HUMANITIES)

PHL 1100. Logic I (3).F;S.

This course is an introduction to logical reasoning. It will include the study of truth-functions, translations of English sentences into logical notation, truth-tables, deductions, and some fallacy identification. The concepts of validity, consistency, tautology, contradiction, and logical equivalence are introduced. Additional topics, such as category syllogisms, inductive reasoning, and quantification may be included at the discretion of the instructor. (CORE: HUMANITIES)

PHL 1501. Everyday Philosophy: Historical and Social Perspectives (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Mind")

An introduction to special problems, topics, or issues in philosophy from historical and social perspectives. The subject matter of this course will vary. (CORE: HUMANITIES)

PHL 1502. Everyday Philosophy: Aesthetic Perspectives (3).F;S.

GEN ED: Aesthetic Perspective (Theme: "How We Tell Stories")

An introduction to special problems, topics, or issues in philosophy from aesthetic perspectives. The subject matter of this course will vary. (CORE: HUMANITIES)

PHL 1503. Everyday Philosophy: Local to Global (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Identity, Culture, and Media")

An introduction to special problems, topics, or issues in philosophy regarding cultural diversity and the interrelationship between the local and the global. The subject matter of this course will vary. (CORE: HUMANITIES)

PHL 1504. Everyday Philosophy: Perspectives on Science and Technology (3).F;S.

An introduction to philosophical approaches to special problems, topics, or issues in science and technology. The subject matter of this course will vary.

PHL 1530–1549. Selected Topics (1–4). On Demand.

PHL 2000. Philosophy, Society, and Ethics (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Individual and Society")

An introduction to ethical reasoning and an examination of moral problems in contemporary social issues. (CORE: HUMANITIES)

PHL 2013. Philosophy of Art (3).F.

GEN ED: Aesthetic Perspective (Themes: "Traditions and Innovations" and "Analyzing Style and Form")

A course that concentrates on the interplay of art and philosophy in ancient through contemporary cultures. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

PHL 2015. Environmental Ethics (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Sustainability and Global Change")

This course is an introduction to ethical dimensions of environmental issues. Students will have the opportunity to study theoretical perspectives such as deep ecology, ecofeminism, Native American views of the land, and social ecology. The course will also consider environmental ethical issues such as the moral status of nature, pesticide use, environmental racism, the treatment of animals, deforestation, world population growth, and what it means to live an ecologically responsible life. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

PHL 2100. Logic II (3).S.

A study of some major systems of logic, including a formal study of truth functions and quantification. The notions of proof, theorem and axiom are defined and some theory of logic is included. At the discretion of the instructor, additional topics may be included (for example, the logic of relations, boolean algebra systems, modal logic, the logic of probability or inductive logic).

PHL 2500. Independent Study (1–4).F;S.

PHL 2530–2549. Selected Topics (1–4). On Demand.

PHL 2800. Library and Information Research in Philosophy (1).F.

This course focuses on developing skills in information-finding and other research techniques. These skills will be used to conduct research and to build a foundation for life-long learning. Students will become familiar with the scholarly and professional resources for philosophical research, both traditional and electronic. (COMPUTER)

PHL 3000. Ancient Philosophy (3).F.

GEN ED: Junior Writing in the Discipline (WID)

A study of the major philosophers of Greece and Rome including the pre-Socratics, Socrates, Plato, Aristotle, the Stoics, the Epicureans, and the skeptics. Prerequisites: one course in philosophy or consent of the instructor and ENG 2001 or its equivalent. (WRITING; MULTI-CULTURAL)

PHL 3013. Philosophical Aesthetics (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course will take a philosophical look at the nature of aesthetic experience. Our concern will be to understand what makes aesthetic experience unique, what are the causes of aesthetic experience, how aesthetic experience might be related to our appreciation of art and nature, and to examine what role knowledge and belief may play in aesthetic experience. Prerequisite: ENG 2001 or its equivalent. (WRITING; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

PHL 3015. Medical Ethics (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course aims to introduce students from a variety of backgrounds with an interest in health care to the central issues and controversies in medical ethics. The goal is to prepare students to enter the growing fields of medical practice and research equipped with adequate knowledge of ethical issues pertaining to health care practice and research. Prerequisite: ENG 2001 or its equivalent. (WRITING)

PHL 3020. Metaphysics (3).F. Alternate years.

GEN ED: Junior Writing in the Discipline (WID)

This course will provide an advanced introduction to metaphysics, a branch of philosophy concerned with questions and issues that arise out of the study of the nature of reality. Prerequisite: ENG 2001 or its equivalent. (WRITING)

PHL 3030. Feminist Philosophy (3).S.

GEN ED: Historical and Social Perspective (Theme: "Revolutions and Social Change")

GEN ED: Junior Writing in the Discipline (WID)

This course examines conceptual and normative issues in contemporary feminist theory. Issues to be discussed include power and the production of knowledge, resistance, violence against women, sex and gender, the interrelatedness of gender, race, class, and sexuality, body image, the personal as political, and the relation between feminist theory and activism. The class also considers western and non-western feminist discussion of these themes. The goal is for each student to gain an appreciation of the diversity and complexity of feminist thought, as well as insight concerning the relation between women's experiences and feminist theorizing. Prerequisite: ENG 2001 or its equivalent. (WRITING; MULTI-CULTURAL)

PHL 3040. Social and Political Philosophy (3).F. Alternate years. (EFFECTIVE: FALL, 2012)

GEN ED: Junior Writing in the Discipline (WID)

This course examines some of the major developments in Western political thought. Through a philosophical lens, students will examine the various and changing concepts that shape current political arrangements. Prerequisite: ENG 2001 or its equivalent. (WRITING)

PHL 3050. Philosophy of Race (3).F. Alternate years.

GEN ED: Junior Writing in the Discipline (WID)

This course will examine the metaphysical epistemological, social, political, and ethical dimensions of race. Class readings will include both historical and contemporary philosophical approaches to race and racism. Prerequisite: ENG 2001 or its equivalent. (WRITING)

PHL 3200. Modern Philosophy (3).S.

GEN ED: Junior Writing in the Discipline (WID)

A study of views of eminent philosophers of the seventeenth and eighteenth centuries, including Descartes, Hume, and Kant. Prerequisites: one course in philosophy or consent of the instructor and ENG 2001 or its equivalent. (WRITING; MULTI-CULTURAL)

PHL 3300. Recent Anglo/American Philosophy (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course is a study of recent American Philosophical Thought beginning with recent Anglo/European Philosophical movements which have led to American Philosophical movements including: pragmatism, philosophical analysis, behaviorism, scientific realism, and relativism. Philosophical writing may be drawn from such philosophers as: Carnap, Russell, Wittgenstein, Moore, Ayer, Ryle, Austin, Dewey, James, Quine, Goodman, Putnam, and Rorty. Prerequisite: ENG 2001 or its equivalent. (WRITING)

PHL 3400. Contemporary Continental Philosophy (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This course examines some important philosophers and movements in continental philosophy. Philosophical movements such as Phenomenology, Existentialism, Critical Theory, Feminism, Postcolonial Theory, and Poststructuralism will be discussed. Prerequisite: ENG 2001 or its equivalent. (WRITING; MULTI-CULTURAL)

PHL 3500. Independent Study (1–4).F;S.

PHL 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

PHL 3530–3549. Selected Topics (1–4). On Demand.

PHL 3550. Philosophy of Mind (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course will examine some fundamental questions that arise in the philosophy of mind: What does it mean to say that a person has a mind? Are mental states (such as beliefs and desires) nothing but brain states, or are they states of a different kind? Do robots or animals have minds? The course will also provide a historical survey of various philosophical theories of mind, including substance dualism, philosophical and methodological behaviorism, identity theories, functionalism and connectionism. Prerequisite: ENG 2001 or its equivalent. (WRITING; CROSS-DISCIPLINARY)

PHL 3600. Philosophy of Science (3).S.

GEN ED: Junior Writing in the Discipline (WID)

An investigation of the foundations, structure, actual attainments, and ideals of the sciences. Prerequisites: one course in science or science education or philosophy or consent of the instructor and ENG 2001 or its equivalent. (WRITING) (CORE: HUMANITIES)

PHL 4000. Nature of Knowledge (3).S.

A study of the traditional problems of the origin, nature, and limitations of knowledge. What do we know and how do we know it? Prerequisites: PHL 2800 and one additional course in philosophy or consent of the instructor. (WRITING)

PHL 4300. Ethical Theory (3).F.

An examination of some major ethical theories and issues raised in relation to epistemology and language, such as the status of knowledge in ethics and the function of ethical language. Prerequisites: PHL 1000, PHL 2000, and PHL 2800, or consent of the instructor. (WRITING)

PHL 4510. Senior Honors Thesis (3). On Demand.

Independent study and research, directed by a member of the Philosophy faculty in the Department of Philosophy and Religion and a member of another department appropriate to the topic selected by the student. Prerequisites: PHL 2800 and completion of six semester hours of Honors work below the 4000 level. (WRITING)

PHL 4549. Seminar (3).F.

An intensive study of special problems, topics, or issues related to the study of philosophy. The subject matter of this course will vary and barring duplication of subject matter, a student may repeat the course for credit. Prerequisites: PHL 2800 and one additional course in philosophy or consent of the instructor. (WRITING; SPEAKING) [Dual-listed with PHL 5649.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHL 4700. Senior Research: Philosophy (3).S.

GEN ED: Capstone Experience

Designed for majors in Philosophy. Development and completion of an independent research project in the context of a seminar in which the student's ideas, drafts and thesis are questioned and defended. In addition to the discussion of each student's work, issues regarding the nature of philosophy will be discussed. This course provides an opportunity to utilize philosophical skills in a systematic analysis of a philosophical problem. Each student will develop a thesis to be presented and defended in a public forum. Prerequisites: PHL 2800 and two additional courses in philosophy. (WRITING; SPEAKING)

PHL 4900. Internship (3-6). On Demand.

Field work in applied philosophy. Proposal must be approved by the philosophy faculty. Graded on an S/U basis. Prerequisite: PHL 2800.

RELIGIOUS STUDIES (REL)

REL 1010. Introduction to Religion and Literature (3).On Demand.

This course introduces the sacred texts and other writings of religious significance that contribute to the major religions of the world. (MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

REL 1110. Religions of the World (3).F;S.

GEN ED: Historical and Social Perspective (Themes: "Cultural Diversity" and "Religion, Myth, and Society")

This course introduces the major living religions of the world. (MULTI-CULTURAL) (CORE: HUMANITIES)

REL 1530-1549. Selected Topics (1-4). On Demand.

REL 2010. Old Testament: The Jewish Scriptures (3).F;S.

GEN ED: Literary Studies Designation; Historical and Social Perspective (Theme: "Ancient Worlds") and Aesthetic Perspective (Theme: "Expressions of Belief")

An analysis of Old Testament literature as the product of the life of the Israelite people. Students will have the opportunity to examine selected documents in terms of their literary structure, historical context, and religious perspective. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

REL 2020. New Testament (3).F;S.

GEN ED: Literary Studies Designation; Aesthetic Perspective (Themes: "How We Tell Stories" and "Expressions of Belief")

An analysis of early Christian literature as the product of the lives of the first followers of Jesus Christ. Students will have the opportunity to examine selected documents in terms of their literary structure, audience, historical context, religious perspective, and their relation to the broader Christian community and Western culture. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

REL 2030. Islamic Literature (3).S.

An exploration of the Qur'an and of works that have shaped, illustrated, or supplemented Islamic beliefs and practices. (MULTI-CULTURAL) (CORE: HUMANITIES/LITERATURE)

REL 2110. Judaism (3).F.

An examination of the history, literature, and faith of post-exilic Judaism, with concentration on selected topics and periods. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

REL 2120. Christianity (3).S.

GEN ED: Historical and Social Perspective (Theme: "Revolutions and Social Change")

An exploration of Christianity from the early period through the Enlightenment and rise of contemporary Christian movements, students will explore the history of the church, its doctrinal emphases, and its practice in a variety of locations and time periods. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

REL 2130. Islamic Religion and Culture (3).F.

A selective survey of the religion and its expression in Islamic civilization from the time of the prophet Muhammad to the contemporary Islamic revival. (MULTI-CULTURAL) (CORE: HUMANITIES)

REL 2140. Hinduism (3).F.

An interdisciplinary examination of complex Hindu religious and philosophical traditions from Vedic culture to the contemporary period, covering such topics as deity, guru, cosmos, body, ritual, karma, dharma, and yoga. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

REL 2150. Buddhism (3).S.

An interdisciplinary examination of the Theravada, Mahayana, and Vajrayana systems of Buddhist thought and practice, charting their development on the South Asian subcontinent and eventual emergence as a religio-cultural force in East Asia, Europe, and North America. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

REL 2160. Daoism (3).F.Alternate years.

An interdisciplinary examination of the development of Daoism, from Laozi to the contemporary period, in terms of the ways Daoists experience themselves and the world, attempt immortality-oriented self-cultivation practices, and work toward their various individual and socio-political goals.

REL 2170. The Confucian Way (3).F.Alternate years.

An examination of the intellectual history, development, and propagation of the important ideas, practices, and major schools of the Confucian tradition and their influence on Asia and the world.

REL 2500. Independent Study (1–4).F;S.

REL 2530–2549. Selected Topics (1–4). On Demand.

REL 3000. Minds, Brain, and Religion (3).S.

An introduction to the psychological study of religious belief, experience, and behavior through a survey of various sub-disciplines within psychology: e.g., Freudian psychoanalysis, existential psychology, object relations theory, attachment theory, cognitive psychology, and evolutionary psychology. Prerequisite: REL 1110 or permission of the instructor. (CROSS-DISCIPLINARY)

REL 3010. Prophecy in Ancient Israelite Literature (3).S.

A study of the prophetic movement and its literature in the Hebrew Scriptures. Prerequisite: REL 2010 or permission of the instructor. (WRITING; MULTI-CULTURAL)

REL 3020. The Life and Letters of Paul (3).F.

A study of Paul's life and his role in shaping early Christianity. Prerequisite: REL 2020 or permission of the instructor. (WRITING; MULTI-CULTURAL)

REL 3030. Women in the Biblical Tradition (3).F.

This course provides an extensive inquiry into women's stories and images in the Hebrew Bible, New Testament and Apocrypha. Feminist biblical criticism will be emphasized along with a careful study of what we can know about the lives of women in the periods in which these texts were composed. Prerequisite: REL 2010 or REL 2020 or permission of the instructor. (WRITING; CROSS-DISCIPLINARY)

REL 3110. Religion in America (3).F.

An examination of religious beliefs and practice in the United States. Prerequisite: REL 1110 or permission of the instructor. (WRITING)

REL 3120. African Thought (3).S.

A selective survey of insights, systems of thought, and cosmologies of traditional folk religions, of African versions of global religions and of contemporary intellectuals. Prerequisite: REL 1110 or permission of the instructor. (MULTI-CULTURAL)

REL 3140. Chinese Medicine (3).S.

An interdisciplinary exploration and analysis of Chinese medicine, its fundamental theories, and its range of health-oriented and religious applications. Practical experience with the concepts and traditions discussed in this course is strongly encouraged.

REL 3150. Religion, Culture, and the Body (3).S.

A cross-cultural, multi-disciplinary exploration of the body as a malleable and multi-faceted locus of contested ideals that are informed by religion, medicine, and popular culture. We utilize academic studies, religious perspectives, Western viewpoints, global comparisons, and experiential learning to discuss and analyze various perceptions of the human body and the implications these have for personal and social identity creation. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY)

REL 3160. Life and Teachings of Jesus (3).S.Alternate years.

An examination of the historical Jesus of Nazareth, his life, message, and teachings, using the various methods of Biblical Criticism. The class will focus on what can be known about the historical Jesus and different methodologies used in that pursuit.

REL 3170. Religion and Violence (3).S.Alternate years.

Why does the history of world religions admit to several moments of violence? Why do the religious commit acts of violence not only against others but against themselves as well, for example, through acts of sacrifice and penance? Employing a multi-disciplinary approach, the course will address not only the historical, and what could possibly be perceived as the accidental, nature of violence in religion, but also and provocatively the structural role of violence in religion. (WRITING; CROSS-DISCIPLINARY)

REL 3180. American Judaism (3).S.

A study of Judaism in the American environment since 1654, focusing on its unique adaptation to the religious, social, political, and geographic environment of the United States.

REL 3500. Independent Study (1–4).F;S.

REL 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

REL 3530–3549. Selected Topics (1–4). On Demand.

REL 3700. Research and Methods in Religious Studies (3).S.

GEN ED: Junior Writing in the Discipline (WID)

An introduction to major issues and the methods employed in the academic study of religion. Students will focus on acquiring the skills necessary to accomplish research in the field of religious studies. Prerequisites: REL 1010 or REL 1110; and ENG 2001 or its equivalent. (WRITING)

REL 3710. Nature of Religion (3).F.

This course introduces the student to what is generally understood to be “the biology of religion.” The course specifically considers the extent to which evolutionary theory illumines the origins, functions, and continuing vitality of religious belief, behavior, and experience. From individual to multilevel selection theory, from questions concerning the origins of the moral life to the possibility that certain genes code for religious participation, the course pursues the exhaustively natural conditions out of which the religious life emerges.

REL 3720. Study Tour Abroad (3-6).S;SS. On Demand.

An intensive course exploring religious ideas and expression at a remote site. Locations have included, but are not limited to, Israel, Jordan, Greece, France, and Italy.

REL 3730. Nature-Oriented Religions (3).F.Alternate years.

A cross-cultural examination of religious groups - such as Australian Aborigines, Native American traditions, Shinto, and Contemporary Paganism - that are focused primarily on the natural world for their concept of the divine, and which provide conceptual resources for understandings of a healthy relationship with the earth. The theoretical foundations of the course use anthropological theories of religion and critical analytic methods for studying religion.

REL 3740. Religion and Social Theory (3).S.Alternate years.

An examination of the different explanations of the role of religion in the world and its function within human society. The class will focus on the specific application of such theory to real world religious phenomena.

REL 4015. Biblical Interpretation (3).S.

GEN ED: Junior Writing in the Discipline (WID)

An intensive examination of methods and issues in biblical interpretation, with extensive experience in the interpretation of specific biblical texts from both testaments. Major issues in the history of interpretation will be discussed, with emphasis on contemporary methods. Prerequisites: REL 2010 or REL 2020 and junior or senior standing, or permission of the instructor and ENG 2001 or its equivalent. (WRITING)

REL 4115. Religion and Cultural Forms (3).S.

An examination of the way religious themes and issues have found expression in various types of cultural forms such as literature, art, myth, ritual, etc. (WRITING; CROSS-DISCIPLINARY)

REL 4510. Senior Honors Thesis (3). On Demand.

Independent study and research. Honors thesis directed by a faculty member in Religious Studies and a member of an affiliated department appropriate to the topic selected by the student. Prerequisite: completion of six semester hours of Honors work below the 4000 level. (WRITING)

REL 4700. Senior Seminar (3).F;S.

GEN ED: Capstone Experience

An intensive study of special problems, topics, or issues related to the study of religion. The subject matter of this course will vary with the topic selected being focused on literature in the fall and culture in the spring. Prerequisite: completion of at least six semester hours of religious studies (REL) course work on the 3000 or 4000 level including REL 3700. (WRITING; SPEAKING)

REL 4900. Internship (3-6). On Demand.

Graded on an S/U basis.

Department of Physics and Astronomy (PHY/AST)

Michael M. Briley, Chair

Patricia E. Allen

Jennifer L. Burris

Anthony G. Calamai

Daniel B. Caton

J. Sid Clements

Tonya S. Coffey

Brad R. Conrad

Richard O. Gray

Brooke C. Hester

Karl C. Mamola

Joseph T. Pollock

Phillip E. Russell

James P. Sherman

Christopher S. Thaxton

The objectives of the Department of Physics and Astronomy are:

1. To prepare students for a variety of careers which require a technical background or for studies at the graduate level
2. To provide service courses at appropriate levels for students in many disciplines

The versatility of physicists is a result of a basic education which emphasizes fundamental phenomena in nature. Understanding these fundamentals allows a physicist to solve a wide range of problems in many different fields, from energy resources and the environment to transportation and communications.

By taking appropriate physics courses, one can simultaneously learn about the physical side of nature in a most general way, acquire useful specific knowledge, and satisfy general education science requirements.

In keeping with these objectives, three undergraduate degrees in Physics and a graduate degree in Engineering Physics are offered. Minors are offered for both the undergraduate and the graduate student. A pre-engineering curriculum (see the College of Arts and Sciences section of this catalog) provides preparation necessary for transfer into engineering programs both in North Carolina and elsewhere.

The Bachelor of Arts degree in Physics (269A/40.0801)

The program of study is available at: www.programsofstudy.appstate.edu/physics-ba-269a-2012-2013

The Bachelor of Science degree in Physics (without teacher licensure) (270*/40.0801) with a concentration in Applied Physics (270B)

The program of study is available at: www.programsofstudy.appstate.edu/physics-bs-applied-physics-270b-2012-2013

The Bachelor of Science degree in Physics, Secondary Education (266A/13.1329)[T] with teacher licensure

The program of study is available at: www.programsofstudy.appstate.edu/physics-secondary-education-bs-266a-2012-2013

An undergraduate minor in Physics (270/40.0801) (16–18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/physics-minor-270-2012-2013

An undergraduate minor in Astronomy (207/40.0801) (22–24 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/astronomy-minor-207-2012-2013

Honors Program in Physics and Astronomy

The Department of Physics and Astronomy offers an honors program which culminates in a senior honors research and thesis course (PHY 4510 or AST 4510) open to majors in physics and astronomy with an outstanding undergraduate record. In order to graduate with "honors in physics and astronomy," a student must have a minimum GPA of 3.45, overall and in physics and astronomy and must take nine semester hours of honors credits, including PHY 3560 or AST 3560, PHY 4002, and PHY 4510 or AST 4510 (with a grade of "B" or higher). In order to graduate with "highest honors in physics and astronomy," a student must have a minimum GPA of 3.65 overall and in the major and must successfully complete PHY 4510 or AST 4510 (with a grade of "A"). Students may arrange to take specific additional physics and astronomy courses on an honors basis by negotiating an honors contract with the course instructor before class begins. The honors contract, which must be approved by the Department of Physics and Astronomy Honors Committee, allows the student to receive honors credit for a regular course in physics or astronomy by specifying the additional assignments that the student must perform in order to receive honors credit. Additional information may be obtained from the departmental honors director or the departmental chair.

Master of Science degree in Engineering Physics

The Department of Physics and Astronomy offers a Master of Science degree in Engineering Physics with concentrations in: 1) Systems and Laboratory Automation; 2) Professional Science Master's (PSM) in Instrumentation and Automation; and 3) Professional Science Master's (PSM) in Nanoscience for Advanced Materials. Students interested in the M.S. degree are requested to consult the *Graduate Bulletin* for further information. A graduate minor in Physics is also available.

Courses of Instruction in Physics (PHY) and Astronomy (AST)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

PHYSICS (PHY)

PHY 1101. How Things Work (4).F.

GEN ED: Science Inquiry Perspective (Themes: "How Things Work" and "Physics of Self Expression")

An introductory survey of the ideas of mechanics, fluids, wave motion, sound, light, and special relativity. Objects from our daily environment will be considered as their operation, histories, and relationships to one another are explored. This course seeks to dispel the mysteries surrounding everyday phenomena. Lecture three hours, laboratory two hours. Corequisite: MAT 1010 or MAT 1020 or MAT 1025. (NUMERICAL DATA; COMPUTER) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1102. Environment and Everyday Life (4).S.

GEN ED: Science Inquiry Perspective (Theme: "How Things Work")

An introductory survey of thermodynamics, electricity, magnetism, atomic and nuclear physics. Objects from our daily environment will be considered as their operation, histories, and relationships to one another are explored. Lecture three hours, laboratory two hours. Prerequisite: PHY 1101. PHY 1102 is not open to students who have credit for PHY 1830. (NUMERICAL DATA; COMPUTER) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1103-PHY 1104. General Physics I-II (4-4).F;S.-F;S.

GEN ED: (PHY 1103 and PHY 1104) Science Inquiry Perspective (Theme: "Physics of Our Technological World")

A study of the basic principles of physics including mechanics, thermodynamics, sound, electricity and magnetism, optics, and modern physics. Corequisite for PHY 1103: MAT 1020 or MAT 1025 or the equivalent. Prerequisite for PHY 1104: PHY 1103 or the equivalent. Lecture three hours, laboratory two hours. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1150-PHY 1151. Analytical Physics I-II (5-5).F;S.-F;S.

GEN ED: (PHY 1150 and PHY 1151) Science Inquiry Perspective (Theme: "Physics with Calculus")

An analytical and quantitative treatment of physics at a somewhat more advanced level than the PHY 1103-PHY 1104 sequence using calculus. Intended primarily for students majoring in the natural sciences, mathematical sciences, and pre-engineering. Topics covered include mechanics, heat, light, sound, electricity, magnetism, and quantum phenomena. Corequisite for PHY 1150: MAT 1110. Corequisite for PHY 1151: MAT 1120. Lecture four hours, laboratory three hours. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1810. Light and Color (4).S.

GEN ED: Science Inquiry Perspective (Theme: "Physics of Self Expression")

An introductory course intended primarily for students of the fine and applied arts as well as others interested in optical phenomena. Topics include the perception of light and color, color mixing, polarized light, photography, lasers, and holography. The laboratory will involve hands-on investigation of the properties of light using various methods including but not limited to lasers, spectrometers, lenses and mirrors, and photographic equipment. Lecture three hours, laboratory two hours. Prerequisite: MAT 1025 or permission of the instructor. (CROSS-DISCIPLINARY; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1812. Acoustics and Harmonics (4).F.

GEN ED: Science Inquiry Perspective (Theme: "Physics of Self Expression")

An exploration of sound and the underlying physical principles that govern it: Newton's laws of motion, energy, power, pressure, elasticity, oscillations, waves, resonances, and harmonics, as well as the quantitative application of these principles to topics such as: musical intervals, the equal-tempered scale, the decibel scale, harmony, dissonance, overtones, hearing, voices, and the construction and timbre of musical instruments. Lecture three hours, laboratory two hours. Prerequisite: MAT 1025 or permission of the instructor. (CROSS-DISCIPLINARY; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1814. Sound and Recording (4).S.

GEN ED: Science Inquiry Perspective (Theme: "Physics of Self Expression")

An exploration of acoustics, electronic circuits and signal processing as it applies to the creation and recording of sound and music. Topics to be covered include: AC and DC circuits, filtering, amplification, mechanical and electromagnetic properties of speakers, microphones, analog and digital recording, acoustics of rooms, digital audio signal processing, electronic synthesizers, multi-track recording, and mastering. Lecture three hours, laboratory two hours. Prerequisite: PHY 1812 or PHY 1103 or PHY 1150. (CROSS-DISCIPLINARY; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 1830. The Physical Principles of Energy and Sustainability (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Sustainability and Global Change")

An introduction to the physical principles governing energy and renewable technologies. Topics will include: thermal, geothermal, electrical, magnetic, wind, solar, hydroelectric, nuclear, and other sources of energy as well as other sustainable technologies such as conservation of material resources. PHY 1830 is not open to students who have credit for PHY 1102.

PHY 2010-PHY 2020. Intermediate Physics I-II/ (4-4).F-S.

A study of basic formulations and concepts in classical physics including mechanics, static and dynamic electricity, and magnetism. Calculus and vector methods are used. Intended primarily for students majoring or minoring in physics. Prerequisites: PHY 1104 or PHY 1151, and for PHY 2010: MAT 1120; for PHY 2020: MAT 2130. Lecture four hours.

PHY 2210. Physics Laboratory Techniques and Data Analysis (3).S.

GEN ED: Junior Writing in the Discipline (WID)

A course designed for physics majors emphasizing experimental techniques, measurements, data and error analysis, experimental planning and evaluation, and report writing. Intermediate classical experiments with both oral and written reports. Lecture two hours, laboratory two hours. Prerequisite: ENG 2001 or its equivalent. Corequisite: PHY 2020. (WRITING)

PHY 2500. Independent Study (1-4).F;S.

PHY 2700. Computer Interfacing (3).F. Even-numbered years.

An introduction to the basic principles of computer interfacing and machine language programming. Topics to be covered include analog to digital, digital to analog, voltage to frequency conversion, data transmissions, and applications of these topics using departmental microcomputers. Prerequisite: PHY 1104 or PHY 1151.

PHY 3010. Classical Mechanics (3).F.

A study of classical problems in mechanics. Topics include motion in noninertial reference frames, particle systems and collisions, rigid bodies, and Lagrangian mechanics. Prerequisite: PHY 2010. Corequisite: MAT 3130.

PHY 3011. Classical Mechanics II (3). On Demand.

A continuation of PHY 3010, Classical Mechanics. This course covers advanced applications of Lagrange's equations, Hamilton's equations, an introduction to the mechanics of continuous media, elementary tensor algebra, and the rotation of a rigid body in space. Prerequisites: PHY 3010, MAT 3130 and permission of the instructor.

PHY 3020. Electromagnetic Fields and Waves (3).S.

A study of electromagnetic theory, including the solution of electrostatics problems using Laplace's equation, fields in dielectric media, magnetic fields of steady and varying currents, and the development and application of Maxwell's equations. Prerequisites: PHY 2020, MAT 3130.

PHY 3021. Electromagnetic Fields and Waves II (3). On Demand.

A continuation of PHY 3020, Electromagnetic Fields and Waves. This course covers applications of Maxwell's Equations, including the propagation of plane electromagnetic waves in free space and other media; the general principles of guided waves; and the radiation of electromagnetic waves, including a discussion of the electric dipole antenna. Prerequisites: PHY 3020 and permission of the instructor.

PHY 3140. Environmental Physics (3).F.

A study of the physical principles underlying current environmental problems and issues such as global climate change and ozone depletion, and an examination of possible mitigating technologies. Other topics include the interaction of electromagnetic radiation and planetary atmospheres, radiative forcing, the greenhouse effect and the increased concentration of greenhouse gases in the earth's atmosphere, the paleoclimate of the earth and global climate change, alternative energy sources, and the viability of nuclear power. Prerequisite: PHY 1104 or PHY 1151. (CROSS-DISCIPLINARY)

PHY 3150. Atmospheric Physics (3).S.Even-numbered years.

An introduction to the principles of atmospheric physics. After a survey of climatology and the hydrologic and carbon cycles, this course focuses on important aspects of atmospheric physics including thermodynamics, radiative transfer, atmospheric chemistry, cloud microphysics, atmospheric and fluid dynamics, weather systems, boundary layer physics, and climate dynamics. Lecture two hours, laboratory two hours. Prerequisites: PHY 1150 and PHY 1151. Corequisite: MAT 3130 or permission of the instructor. (CROSS-DISCIPLINARY; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PHY 3160. Introduction to Geophysics (3).S.

An introductory survey of whole earth geophysics through theory and practice. The theory portion of the course covers seismology (techniques in reflection and refraction seismology), geothermics, radioactive dating, surface processes, tectonics, orogenics, gravity and gravimetric techniques, electrical and magnetic surveys, and borehole logging. The practical component of the course includes the utilization of several of these methods to study subsurface environments. Lecture two hours, laboratory two hours. Prerequisites OR corequisites: one introductory geology course (GLY 1101, GLY 1102, GLY 1103, GLY 1104, GLY 1105, or GLY 1510) plus PHY 1103 (or PHY 1150), and MAT 1110, or permission of the instructor. (Same as GLY 3160.)

PHY 3210-PHY 3211. Modern Physics I-II (3-3).F-S.

An introduction to the theories and experiments of 20th-century physics: special relativity; wave-particle duality; atomic structure; and natural and artificial radioactivity. Elementary results from quantum theory will be applied to the solid state and the nucleus. Descriptive treatment of frontier topics such as particle physics, accelerators, and superconductivity. Prerequisite: PHY 1151 or corequisite PHY 2010. Lecture three hours.

PHY 3230. Thermal Physics (3).S.

A study of the laws of thermodynamics and their applications. An introduction to kinetic theory and statistical mechanics is included. Prerequisites: PHY 1104 or PHY 1151, and MAT 2130. Lecture three hours.

PHY 3350. Physical Science Investigations (3). On Demand.

A course primarily for elementary education majors who choose their academic concentration in science. Simple demonstrations and laboratory experiments will emphasize a conceptual approach to the physical ideas usually introduced in the elementary science curriculum. Lecture two hours, laboratory two hours.

PHY 3400. Physics Instruction Practicum (3).F.

An introduction to the practical aspects of teaching high school physics. Some of the topics covered include current educational issues, resources required for laboratories, construction and presentation of physics demonstrations, classroom presentations, and the use of computers in the classroom. The course includes guest speakers, field trips, projects (individual and group), and classroom presentations. Lecture two hours, laboratory two hours. Prerequisite: PHY 1104 or PHY 1151 or consent of the instructor.

PHY 3500. Independent Study (1-4).F;S.

PHY 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process at the University level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

PHY 3521. Secondary Science Field Experience (1).F;S.

A supervised experience in the instructional process at the secondary school level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all teacher-licensure candidates in physics.

PHY 3530-3549. Selected Topics (1-4). On Demand.

For example: Energy (2), a survey course designed to provide an understanding of energy options on personal, national, and global levels. The course explores fossil and nuclear fuel reserves, electric power production, and various energy alternatives, particularly solar energy. No prerequisite.

PHY 3560. Undergraduate Research (1-3). On Demand.

The student will participate in on-going faculty-directed research. This will include involvement in the solution of a theoretical problem or in experimental work such as the design of an experiment or experimental apparatus, acquisition of data, and/or data reduction and analysis. This course is required for students planning to graduate with departmental honors. For honors credit, the work must also include presentation of the results in a scholarly publication or at a professional meeting. Course may be repeated for a total credit of four semester hours. Graded on an S/U basis.

PHY 3850. Environucleonics (3). On Demand.

A study of how atomic and nuclear radiation interact with humans and their environment—with special emphasis on the technology of measurement and criteria for evaluation. Discussions of basic radiation properties and radiation detection as well as special analysis techniques such as neutron activation and X-ray fluorescence will be integral to the course. Prerequisite: PHY 1104 or PHY 1151. Lecture three hours.

PHY 3851. Environucleonics Laboratory (1). On Demand.

Laboratory investigation and skills development aligned with the methods of PHY 3850. Basic detection involving GM, gas flow and scintillation detector systems, pulse height analysis, statistical tests and treatment of data, utilization of neutron activation and X-ray fluorescence will be featured. Field trips may be required. Corequisite or prerequisite: PHY 3850. Laboratory three hours.

PHY 4002. Applied Physics Literature (1).F.

An introduction to technical and research journals in the areas of physics, electronics, and astronomy. Methods and references for use in literature searches, including computer methods, and the preparation of technical papers will be examined. Required for students seeking departmental honors.

PHY 4020. Computational Methods in Physics and Engineering (3).F.

A course designed to introduce the student to modern techniques and algorithms in computational physics, involving solutions of real physical systems using techniques from interpolation, optimization, non-linear least squares, the numerical integration of ordinary and partial differential equations, Monte Carlo methods, Fourier analysis and stability analysis. Applications of these techniques will be selected from the areas of mechanics, optics, modern physics, astrophysics, engineering, signal processing, and electromagnetism. Programming will be carried out in a computer language such as 'C' or Fortran. Prerequisites: PHY 2010 and PHY 2020 (with a grade of "C" or higher in each) and MAT 2130, or permission of the instructor. Lecture two hours, laboratory two hours. (COMPUTER) [Dual-listed with PHY 5020.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4210. Methods of Experimental Physics (3).F.

GEN ED: Capstone Experience

Measurement theory, analysis, interpretation and evaluation of data, experiment design and scientific report writing. A limited number of advanced laboratory experiments will be performed which illustrate important concepts and methods. Literature searches, written reports and some oral reports will be required. Lecture two hours, laboratory two hours. Prerequisite: PHY 2210. (WRITING; SPEAKING)

PHY 4330. Digital Electronics (3).F.

This course provides an introduction to digital electronics, with an emphasis on the study of components that are building blocks for digital devices and equipment, especially microcomputers. Emphasis will be placed on the design of combinatorial, sequential, and state machine (ASM) circuits, including simplification by Boolean algebra, Karnaugh maps, and computer-aided tools. Hardware description languages will be used to implement designs on programmable logic devices (PLD). Topics to be covered include: number systems, Boolean algebra, logic families, gates, flip-flops, medium scale integration devices, combinatorial and sequential circuits, ASM, PLD, arithmetic logic units, memory, input-output, D/A, A/D, and a generic CPU. The industry-oriented, hands-on labs involve circuit construction, testing and trouble-shooting using modern test equipment. Lecture two hours, laboratory three hours. [Dual-listed with PHY 5330.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4510. Senior Honors Research and Thesis (1- 3). On Demand.

Independent in-depth research and preparation of a thesis on a significant topic in physics, directed by a member of the Department of Physics and Astronomy faculty. A thesis is presented orally and in writing to the department. The course grade is determined by the thesis advisor and the departmental honors committee. Required for graduation with honors in physics. Prerequisites: PHY 3560 and PHY 4002 or equivalent, GPA of at least 3.45 overall and in physics and astronomy courses, approval of proposed research topic and methods by the departmental honors committee, and assignment of research thesis advisor during the semester prior to enrollment in this course.

PHY 4620. Optics (4).S.

A study of classical and modern optical phenomena including geometrical, Fresnel, and Fourier optics; lasers; fiber optics; and optoelectronic devices. Lecture three hours, laboratory three hours. Prerequisite: MAT 3130. Corequisite: PHY 3020. [Dual-listed with PHY 5620.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4635. Advanced Microprocessor Interfacing and Robotics (4).S.

A study of the architecture, programming, and interfacing of Intel microprocessors and microcomputers. Topics to be covered include: Intel microprocessor architectures, support chips, decoding memory and I/O, microcomputer architecture and interfacing, microcomputer busses (such as PCI, PCIX, USB, Firewire, wireless), digital I/O, D/A, A/D, and robotics. Most labs will involve interfacing

microcomputers to an assortment of transducers such as switches, sensors, LEDs, 7-segment displays, solid state relays, stepper motor, five-axis robotic arm, etc. Assembly language, high-level language, and/or commercial software (e.g., Lab View) will be used in lab. Lecture three hours, laboratory three hours. Prerequisite: PHY 4330. [Dual-listed with PHY 5635.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4640. Quantum Mechanics (3).S.

A study of the Schrödinger equation and its solutions for various common potentials. Prerequisites: PHY 3010, PHY 3210, and MAT 3130. [Dual-listed with PHY 5640.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4730. Analog Systems (3).F.

The theory and operation of DC and AC circuits with discrete passive and active components. Included are resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and operational amplifiers. An in-depth analysis of circuit theorems, phasors, differential equations, and simulations predicting the behavior of systems of analog devices will be explored in lecture and laboratory. The use and limitations of common electronics instrumentation such as multimeters, oscilloscopes, function generators, modulators/demodulators, lock-in amplifiers, and phase detection will also be explored. Lecture two hours, laboratory three hours. Corequisite: PHY 3210 or consent of the instructor. [Dual-listed with PHY 5730.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4735. Microcontrollers (3).S.

An in-depth study of the architecture, programming and interfacing of microcontrollers. Topics to be covered include: introduction to microcontrollers, architectures, internal hardware (such as timers, serial ports, A/Ds, D/As, I²C), instruction sets, assembly language programming, interrupt-driven code, and interfacing. Both stand-alone microcontrollers and single board computers will be used in lab. Most labs will involve interfacing microcontrollers to devices such as switches, LEDs, keypads, 7-segment displays, LCD displays, motors, sensors, etc. Microcontroller simulators and in-circuit-emulators (ICE) will be used for debugging. Lecture two hours, laboratory three hours. Prerequisite: PHY 4330 or the equivalent. (COMPUTER) [Dual-listed with PHY 5735.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4740. Sensors and Transducers (4).S.

This applications-oriented course covers the integration of transducers into sensor-based systems. Students will integrate transducers with signal conditioning circuitry and will develop proficiency in interfacing the conditioned signals with data acquisition hardware, using programs such as the National Instruments LabVIEW software program. Sensors covered include, but are not limited to, temperature, pressure, optical, and humidity. Lecture three hours, laboratory three hours. Prerequisite: PHY 4730 (Analog Systems). [Dual-listed with PHY 5740.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4820. Medical Physics (3).S.

A study of the application of the basic principles of physics to a selection of medical topics involving human body characteristics and functions and to instrumentation used to diagnose and treat illness and injury. Prerequisite: PHY 1104 or PHY 1151. Lecture three hours. [Dual-listed with PHY 5820.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4845. Nanoscience and Technology (3).S.

A survey of the current state of nanoscience and nanotechnology from both a theoretical and practical standpoint. Topics include, but are not limited to, nano-fabrication, tools (e.g. SEM, STEM, FIB, STM, AFM, etc.), nanomechanics, nanomaterials, Buckyballs and nanotubes, thin films, nano self-assembly, nano-scale heat transfer, thermoelectric devices, and nano-optics. Where applicable, content will be enhanced through direct experience with the available instrumentation. Prerequisite: senior standing in Physics or Chemistry, or consent of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with PHY 5845.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4860. Physical Principles of Electron Microscopy (3).F.

This course provides an overview of the fundamental principles of scanning electron microscopy, including all electron optical components (electron sources and guns, electron lenses, deflectors, and stigmators) and complete electron optical system physics. This overview is complemented by a thorough investigation of the electron beam-solid interaction physics and the resulting measurable signals. Image formation physics and a wide range of applications including qualitative and quantitative analysis techniques are fully developed in this course. PHY 4860 is accompanied by an optional laboratory course, PHY 4861. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with PHY 5860.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4861. Physical Principles of Electron Microscopy Laboratory (1).F.

This laboratory provides an introduction to the instrumentation and methods of scanning electron microscopy, including all electron optical components (electron sources and guns, electron lenses, deflectors, and stigmators). Electron beam-solid interaction physics and the resulting measurable signals are investigated. Image formation physics and a wide range of applications including qualitative and quantitative analysis techniques are fully developed in this course. PHY 4861 is accompanied by a required lecture section. Corequisite: PHY 4860. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with PHY 5861.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PHY 4880. Special Topics in Physics (3). On Demand.

A course devoted to a single topic.

PHY 4900. Internship (3-12).F;S.

Supervised work in applied physics in an industrial or other laboratory setting. Students must obtain approval of the departmental internship coordinator prior to enrolling. Graded on an S/U basis.

ASTRONOMY (AST)

AST 1001. Introductory Astronomy I – The Solar System (4).F.

GEN ED: Science Inquiry Perspective (Theme: "Voyages Through the Cosmos")

Topics to be covered include constellations, telescopes, the sun and moon, planets, asteroids, comets, the origin of the solar system and the search for extra-terrestrial life. The laboratory includes visual observations and electronic imaging of astronomical objects as well as a field trip to Appalachian's Dark Sky Observatory. Lecture three hours, laboratory two hours. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

AST 1002. Introductory Astronomy II – Stars and Galaxies (4).S.

GEN ED: Science Inquiry Perspective (Theme: "Voyages Through the Cosmos")

A study of astronomical objects located beyond our solar system. Topics to be covered include the structure and evolution of the stars, pulsars, black holes, gaseous nebulae, star clusters, galaxies, quasars and the structure of evolution of the Universe. Night observations of these types of objects will be made. Lecture three hours, laboratory two hours. Prerequisite: AST 1001. (NUMERICAL DATA) (CORE: NATURAL SCIENCES) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

AST 1530–1531. Selected Topics (1–4). On Demand.

AST 2001. Observational Astronomy (3).F.

An introduction to the operation of astronomical instruments and to the acquisition and analysis of astronomical data. Topics to be covered will include, among others, astronomical coordinates and time systems, planning of observational programs, telescope and instrumentation operation and basic digital image analysis. Observations will be conducted at the campus observatory, emphasizing the use of the techniques studied in the lecture. Lecture two hours, laboratory two hours. Prerequisite: AST 1002.

AST 3001. Techniques in Astronomical Photometry (3).S. Even-numbered years.

A study of advanced techniques of modern astronomical photometry. Lecture topics include solid state (CCD) imaging hardware, image processing software and techniques, filters and color systems, and CCD aperture photometry. Observations will be conducted at the campus observatory, emphasizing the use of the techniques studied in the lecture. Lecture two hours, laboratory two hours. Prerequisite: AST 2001.

AST 3002. Techniques in Astronomical Spectroscopy (3).S. Odd-numbered years.

A study of advanced techniques of modern astronomical spectroscopy. Lecture topics include basic and advanced stellar spectrograph designs, stellar spectral classification, and applications of spectroscopic data to the determination of radial velocities and chemical abundances. Observations will be conducted at the campus observatory, emphasizing the use of the techniques studied in the lecture. Lecture two hours, laboratory two hours. Prerequisite: AST 2001.

AST 3100. Astrophysics (3).S. Even-numbered years.

A study of the astrophysical processes which occur in stars, nebulae, and the interstellar medium. Topics to be covered include energy generation and transfer in stars, spectral line formation and stellar structure and evolution. Prerequisites: AST 1002, PHY 1151, MAT 1120.

AST 3200. Astromechanics (2). On Demand.

An introduction to classical and modern techniques in the study of orbiting celestial bodies. Lecture topics will include the solution of the 2-body problem with applications to comet orbits, the restricted 3-body problem, and solutions to the n-body problem. Prerequisites: PHY 1103 or PHY 1150; and MAT 1120. Lecture two hours.

AST 3530-3549. Selected Topics (1–4). On Demand.

Selected topics courses may be taught on any of a number of special and current topics in astronomy. For instance, Robotic Exploration of the Solar System; Supernovae; Neutron Stars and Black Holes. Prerequisites: AST 1001 and AST 1002.

AST 3560. Undergraduate Research (1–3). On Demand.

The student will participate in on-going faculty-directed research. This will include involvement in the solution of a theoretical problem or in experimental work such as the design of an experiment or experimental apparatus, acquisition of data, and/or data reduction and analysis. This course is required for students planning to graduate with departmental honors. For honors credit, the work must also include presentation of the results in a scholarly publication or at a professional meeting. Course may be repeated for a total credit of four semester hours. Graded on an S/U basis.

AST 4510. Senior Honors Research and Thesis (1–3). On Demand.

Independent in-depth research and preparation of a thesis on a significant topic in astronomy, directed by a member of the Department of Physics and Astronomy faculty. A thesis is presented orally and in writing to the department. The course grade is determined by the thesis advisor and the departmental honors committee. Required for graduation with honors in physics. Prerequisites: AST 3560 and PHY 4002 or equivalent, GPA of at least 3.45 overall and in physics and astronomy courses, approval of proposed research topic and methods by the departmental honors committee, and assignment of research thesis advisor during the semester prior to enrollment in this course.

Wiley F. Smith Department of Psychology (PSY)

James C. Denniston, Chair

Kenneth M. Steele, Assistant Chair

Stanley R. Aeschleman

Pamela Kidder Ashley

Verne R. Bacharach

Mary E. Ballard

Doris G. Bazzini

Hall P. Beck

Shawn M. Bergman

Robert G. Bringle

Joshua J. Broman-Fulks

Will H. Canu

James R. Deni

Christopher A. Dickinson

Lisa J. Emery

Jamie Y. Fearrington

Paul A. Fox

Sandy G. Gagnon

Amy T. Galloway

Lisa Curtin Grizzard

Robert W. Hill

Timothy J. Huelsman

John Paul Jameson

Timothy D. Ludwig

Denise M. Martz

Lindsay C. Masland

Todd McElroy

Kurt D. Michael

Lynn H. Mosteller

Andrew R. Smith

Douglas A. Waring

Rose Mary Webb

Twila Wingrove

Mark C. Zrull

The Wiley F. Smith Department of Psychology is the sole agency at Appalachian State University charged with the responsibility for developing, maintaining, and delivering undergraduate and graduate curricula in psychology. The Department is dedicated to the ideal that an understanding of psychological science contributes to a liberal education and forms the foundation for careers in psychology and for other endeavors. Departmental faculty promote intellectual curiosity, critical thinking, and a culture of learning through meaningful educational, scholarly, and service experiences. In support of this mission, the faculty of the Department provide mentoring and collaborative educational experiences, engage in scholarship, and serve the discipline, the university, and the community.

The faculty of the Department of Psychology value:

1. An array of high quality experiences that provide learners with depth and breadth in their education
2. Mentoring students in the discovery of psychological science within the traditional classroom context, the laboratory, and the greater community
3. Scientifically-informed applied experiences
4. Collaborative and interdependent relationships among students, faculty, staff, administration, alumni, and the community, both within psychology and across disciplines
5. Diverse contributions to the Department's mission

The Bachelor of Arts degree in Psychology (251A/42.0101)

The program of study is available at: www.programsofstudy.appstate.edu/psychology-ba-251a-2012-2013

The Bachelor of Science degree in Psychology (252*/42.0101)

For the Bachelor of Science in Psychology, students must select one of the following concentrations:

Business concentration (252D):

The program of study is available at: www.programsofstudy.appstate.edu/psychology-bs-business-252d-2012-2013

Health Studies concentration (252E):

The program of study is available at: www.programsofstudy.appstate.edu/psychology-bs-health-studies-252e-2012-2013

Human Services concentration (252F):

The program of study is available at: www.programsofstudy.appstate.edu/psychology-bs-human-services-252f-2012-2013

Natural Science concentration (252C):

The program of study is available at: www.programsofstudy.appstate.edu/psychology-bs-natural-science-252c-2012-2013

Social Science concentration (252G):

The program of study is available at: www.programsofstudy.appstate.edu/psychology-bs-social-science-252g-2012-2013

Minor in Psychology (275/42.0101) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/psychology-minor-275-2012-2013

Honors Program in Psychology

The Department of Psychology offers honors courses at the undergraduate level to students who have distinguished academic records and/or are nominated by a faculty member, and are invited by the departmental honors committee. Credit earned in honors courses may be applied toward the major, the minor, or the electives required for graduation. To graduate with "honors in psychology," a student must be recommended by the departmental honors committee and meet the criteria for such consideration: a minimum overall GPA of 3.45; a minimum GPA of 3.5 in psychology courses; and successful completion of the honors sequence. The honors sequence consists of nine semester hours of honors courses, with at least a grade of "B" in each. Six semester hours may be selected from: PSY 1200 (honors), PSY 3511, and PSY 3512. A student may substitute any course that is numbered PSY 3000 or higher, except for PSY 3000, PSY 3100, PSY 3500, PSY 3511, PSY 3512, PSY 3520, PSY 3530-3549, PSY 4001, PSY 4002, PSY 4511, PSY 4512, and PSY 4900, for a course in the honors sequence by satisfactorily completing an honors contract (made between the student and the professor teaching the course). Three semester hours are senior honors thesis courses (PSY 4511 and PSY 4512) to be taken over two semesters. The honors program requires a minimum of three semesters to complete. Honors courses are not offered during summer sessions.

Master of Arts degrees in Psychology

The Department of Psychology offers a Master of Arts degree in Psychology, General Experimental which requires 33 semester hours including a thesis; a Master of Arts degree in Industrial-Organizational Psychology and Human Resource Management which requires 48 semester hours; and a Master of Arts degree in Clinical Health Psychology which requires 57 semester hours with an optional thesis. The Master of Arts/Specialist degree in School Psychology requires 72 semester hours. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Psychology (PSY)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

PSYCHOLOGY HONORS (PSY)

PSY 1200. Psychology: Historical, Social, and Scientific Foundations Honors (3).F;S.

GEN ED: Historical and Social Perspective (Themes: "Individual and Society" and "Mind")

An honors section of PSY 1200. Survey of basic principles and selected topics in psychology. Students will have the opportunity to develop original critical thought in writing and discussion. Enrollment by invitation of the department or by application. (CORE: SOCIAL SCIENCES)

PSY 3511. Honors Colloquium (3).F.

In depth study of selected topic(s) in psychology, encouraging independent scholarship in writing and discussion. Enrollment is by invitation of the department or by application. May be taken twice if course content is significantly different. Prerequisite: PSY 1200. (WRITING)

PSY 3512. Honors Colloquium (3).S.

In depth study of selected topic(s) in psychology, encouraging independent scholarship in writing and discussion. Enrollment is by invitation of the department or by application. May be taken twice if course content is significantly different. Prerequisite: PSY 1200. (WRITING)

PSY 4511. Senior Honors Thesis I (1). On Demand.

Independent study and research leading to proposal of an honors thesis; directed by a member of the psychology department. The student will register for this course during the semester prior to the final semester as an undergraduate. Enrollment by qualified applicants only. Prerequisites: PSY 1200 and successful completion of at least one honors course. (WRITING)

PSY 4512. Senior Honors Thesis II (2). On Demand.

Independent study and research leading to completion of an honors thesis; directed by a member of the psychology department. The student will register for this course during the final semester as an undergraduate. Enrollment by qualified applicants only. Prerequisite: successful completion of PSY 4511. (WRITING)

PSYCHOLOGY (PSY)

PSY 1100. Psychology of Parenting (3).F;S.

The study of social, multi-cultural, cognitive and behavioral principles in psychology as applied to the theory and practice of parenting.

PSY 1200. Psychology: Historical, Social, and Scientific Foundations (3).F;S.

GEN ED: Historical and Social Perspective (Themes: "Individual and Society" and "Mind")

This course will focus on the biological and cognitive foundations of individual behavior, as well as the individual in the social context. Research on psychological phenomena will be reviewed to demonstrate the logic of the scientific method, to foster critical thinking, to identify potential shortcomings in interpretations of behavior (e.g., claims presented in the popular media), and to describe linkages to everyday experiences (e.g., aesthetic and perceptual judgments, improved studying, friendship and attraction, and development of political attitudes). Students will have the opportunity to learn how to use empirical data to draw sound conclusions about behavior. Finally, connections to other thematic areas of scholarly inquiry within other disciplines will be presented. (CORE: SOCIAL SCIENCES)

PSY 1530-1549. Selected Topics (1-4).On Demand.

An examination of one or more topics drawn from or related to an area of psychology. Topics vary from year to year depending on and guided by the interests of faculty and students.

PSY 2200. Careers in Psychology (1).F;S.

An overview of the various career options in the field of psychology and the educational and training experiences required to pursue these options. Graded on an S/U basis. Prerequisite: PSY 1200.

PSY 2210. Psychology of Human Growth and Development (3).F;S.

The study of research and theory of human physical, cognitive, social and emotional development from conception through maturity. Topics include descriptions of typical human development and application of the principles of developmental psychology.

PSY 2211. Psychology of Personality (3).F;S.

Basic principles of personality structure, dynamics, development, assessment, and theory are discussed. Consideration is given to environmental and biological determinants of personality.

PSY 2212. Abnormal Psychology (3).F;S.

An overview of the major forms of psychological disorders in children and adults. Emphasis is placed on theory and research related to the classification, description, etiology, and treatment of maladaptive behaviors and psychological disorders.

PSY 2213. Survey of Social Psychology (3).F;S.

An overview of the basic principles of social psychology. A survey of the research findings and how they may be applied to real world situations.

PSY 2305. Psychology of Gender (3). On Demand.

An examination of selected psychological theories and research of the effects of gender. Emphasis is placed on the cognitive, biological and sociocultural explanations of gender similarities and differences.

PSY 2500. Independent Study (1-3).F;S.

Prerequisite: PSY 1200.

PSY 2700. Behavior Change (3).F;S.

An introduction to behavior change principles and procedures employed in the helping professions. Instructional and practical experiences focus on the acquisition of communication and problem-solving skills used to manage problem behaviors.

PSY 3000. Educational Psychology (3).On Demand.

An overview of the development of the student and an analysis of the principles of classroom learning. Applicable theories of child and adolescent development and major concepts, theories, and research in the acquisition of knowledge and interpersonal social skills are emphasized. Special attention is given to the educational application of these principles. Prerequisite: PSY 1200. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

PSY 3010. Psychology Applied to Teaching (3).F;S.

This course provides an overview of the development of the student and an analysis of the principles of classroom learning, classroom management, and behavioral guidance. Research-based theories of child and adolescent development and major concepts, theories, and research in the acquisition of knowledge and interpersonal social skills and in the guidance and management of student behavior in the classroom are examined and critiqued. The course introduces students to research and theory on group and individual differences; various types of diversity, including characteristics of students with disabilities and students from culturally and linguistically diverse backgrounds; and foundational concepts and principles of educational assessment and accountability, including the Response to Intervention model. Applications and implications for teaching and learning are emphasized. Forty (40) hours of field experiences

are required. PSY 3010 may be taken prior to or after admission to teacher education. Prerequisite or corequisite: CI 2300. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

PSY 3100. Research Methods in Psychology (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Basic research/design concepts such as variables, confounding, causation, levels of measurement, observational research strategies, experimental design and control procedures, and use of descriptive, correlational and inferential statistics will be introduced. Students will have the opportunity to develop competence in conducting literature reviews, report writing in APA style, data collection and analysis. Lecture three hours, laboratory two hours. Prerequisites: PSY 1200 and STT 2810 or STT 2820 (with a grade of "C" or higher); and ENG 2001 or its equivalent. (WRITING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PSY 3207. Organizational Psychology (3).F;S.

A survey of organizational psychology based on classical and contemporary research. Emphasis is placed on the practical application of principles to problems at the micro (individual, interpersonal, and group) and macro (environmental) levels. Prerequisite: PSY 1200. (CROSS-DISCIPLINARY)

PSY 3210. Child and Adolescent Psychology (3).F;S.

An in-depth consideration of contemporary and classic issues and topics from child and adolescent psychology. Emphasis will be on evaluating theory and research, encouraging both understanding and critical thinking about the literature in developmental psychology. Prerequisite or corequisite: PSY 3100 or permission of the instructor. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

PSY 3211. Personality and Individual Differences (3).F;S.

An in-depth examination of the principles underlying personality psychology, including genetic and environmental influences in personality development. Emphases will be on understanding the measurement of dimensions of personality and the methods used in personality psychology research by focusing on the current empirical literature. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3212. Psychopathology (3).F;S.

An in-depth review of the major forms of psychopathological conditions across the lifespan. Emphasis is placed on theory, research, and original empirical readings related to the classification, description, etiology, and treatment of maladaptive behaviors and psychological disorders. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3213. Social Psychology (3).F;S.

An intensive investigation of core principles in social psychology with thoughtful consideration of basic and applied research in the area as well as application to real world issues. Course will involve empirical readings related to major topical areas in the field. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3214. Principles of Learning (3).F;S.

A survey of the basic principles, mechanisms, and theories of learned behaviors. Emphasis is placed on basic learning processes associated with Pavlovian and operant conditioning discovered through research with nonhuman animals. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3215. Perception (3).F;S.

A survey of basic principles and mechanisms of perception. Visual and auditory perceptual systems are emphasized. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3216. Biological Psychology (3).F;S.

A survey of the physiological, anatomical, and chemical correlates of behavior. Topics will include basic processes associated with these course components as well as discussion of how these processes are related to various neurological disorders. Prerequisite or corequisite: PSY 3100 or permission of the instructor. (CROSS-DISCIPLINARY)

PSY 3217. Cognitive Processes (3).F;S.

A survey of classical and modern theories of human thought processes as they relate to performance in memory tasks, concept learning, and problem solving. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3218. Adult Development (3).F;S.

An in-depth examination of development in adulthood, with coverage of physical, social, and psychological change over time. Emphasis will be on evaluating current theory and research, encouraging both understanding and critical thinking about the extant literature on the psychology of adulthood. Prerequisite or corequisite: PSY 3100 or permission of the instructor.

PSY 3500. Independent Study (1-4).F;S.

Prerequisite: PSY 1200.

PSY 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisites: PSY 1200, must be majoring in psychology, and junior or senior standing. May be repeated for a total credit of three semester hours.

PSY 3530–3549. Selected Topics (1–4). On Demand.

In depth examination of specialized areas of psychology. Topics vary from year to year depending upon the interests of students and faculty. Prerequisite: PSY 1200.

PSY 3653. Health Psychology (3).F;S.

A survey of major physical disabilities including cardiovascular disease, diabetes, Aids, cancer, pain, obesity, eating disorders, and injury using a behavioral medicine orientation. Behavioral medicine represents a multidimensional approach to integrating behavioral and biomedical information in determining disease etiology and in prescribing comprehensive treatment. Prerequisite: PSY 1200.

PSY 4001. Research Assistant (1–3).F;S.

A supervised experience in which the student does psychological research on a faculty member's project under the direction of a faculty member. Graded on an S/U basis. Prerequisites: PSY 1200 and must be majoring in psychology. May be repeated for a total credit of six semester hours.

PSY 4002. Supervised Research (1–3).F;S.

A supervised experience in which the student does psychological research under the direction of a faculty member. The project will be developed by the student in consultation with their supervisor and should be considered the student's project. Prerequisites: PSY 1200, PSY 3100, and must be majoring in psychology. May be repeated for a total of six semester hours credit. (WRITING)

PSY 4206. Industrial Psychology (3).F;S.

A survey of the field of human resource management based on fundamental psychological principles and psychometric theory. Topics considered include job analysis and evaluation, performance appraisal, and personnel selection. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor. (SPEAKING; CROSS-DISCIPLINARY)

PSY 4207. Evolutionary Psychology (3).F;S.

This course examines how human thinking, motivation, behavior, and social relationships can be understood from the perspective that many aspects of human behavior involve sets of processes designed by natural selection to solve adaptive problems faced by our evolutionary ancestors. Key topics may include: problems of survival, long-term mating, sexuality, parenting, kinship, cooperation, aggression and warfare, conflict between the sexes, status, prestige, social dominance, and how evolutionary theory can provide a unified approach to understanding the different branches of psychology. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor. [Dual-listed with PSY 5207.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PSY 4208. Forensic Psychology (3).F;S.

An in-depth study of the ways in which psychology and the law interact. Topics will include a study of the way in which researchers and mental health professions contribute to legal issues as well as the ways in which research and mental health practice are governed by the law. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor. (SPEAKING) [Dual-listed with PSY 5208.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PSY 4211. Personality Laboratory (1).On Demand.

Practical application of theory and empirical findings in personality psychology. Methods of personality assessment will be critically examined. Students will generate testable hypotheses and design and implement correlational and experimental research studies informed by basic principles of personality theory. Prerequisite or corequisite: PSY 3211 or permission of the instructor.

PSY 4213. Social Psychology Laboratory (1).On Demand.

Lab activities designed to provide experiential learning through hands-on experimental participation in the field of social psychology. Both classic and novel theories will be examined using the scientific method. Students will work from theoretical assumptions to generate hypotheses that will be empirically examined. Prerequisite or corequisite: PSY 3213 or permission of the instructor.

PSY 4214. Learning Laboratory (1). On Demand.

A laboratory course designed to establish an understanding of basic procedures used to investigate classical and operant conditioning. Laboratory modules address how various principles of learning (e.g., effects of reinforcement, contiguity, contingency, etc.) affect the acquisition and performance of Pavlovian and operant behavior. Students will conduct research on human and non-human subjects, analyze the obtained data, and summarize their findings in laboratory reports conforming to APA style. Prerequisite or corequisite: PSY 3214 or permission of the instructor.

PSY 4215. Perception Laboratory (1). On Demand.

A laboratory course providing classic and current experimental paradigms used to address questions in the psychology of perception, and exposure to experiment design, data collection and analysis, and report writing. Prerequisite or corequisite: PSY 3215 or permission of the instructor.

PSY 4216. Biological Psychology Laboratory (1). On Demand.

A laboratory course providing activities in biological psychology including basic neuroanatomy and histology, some laboratory skill training, and exposure to behavioral and neuroscience research methods, experiment design, data collection and analysis, and report writing. Prerequisite or corequisite: PSY 3216 or permission of the instructor.

PSY 4217. Cognitive Psychology Laboratory (1). On Demand.

A laboratory course providing exposure to classic and current experimental paradigms used to address questions in cognitive psychology, and exposure to experiment design, data collection and analysis, and report writing. Prerequisite or corequisite: PSY 3217 or permission of the instructor.

PSY 4562. Psychology of Adulthood and Aging (3). F; S.

Overview of the Psychology of Aging, with coverage of sensory, cognitive, and socio-emotional changes relevant to applied professions. Emphasis will be on applications of existing theory and research, and on encouraging an understanding of how to understand and interact with adults of all ages. Prerequisite: PSY 1200. [Dual-listed with PSY 5562.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PSY 4640. Seminar in Psychology (3). On Demand.

In depth analysis and evaluation of a contemporary research issue in psychology. Topics vary from year to year depending upon the interests of students and faculty. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor, and must be majoring or minoring in psychology. (WRITING)

PSY 4655. Contemporary Issues in Psychology (3). F; S.

GEN ED: Capstone Experience

An investigation and discussion of psychological phenomena using scientific methodology and empirical research to evaluate causal claims, evaluate research, assess validity and engage in critical thinking. A focus of the class will be the use of empirical research literature, as well as oral and written assignments to improve reasoning skills in order for students to become more critical consumers of information from both academic and popular sources. Topics will span multiple areas of psychology. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor. (WRITING; SPEAKING) [Dual-listed with PSY 5655.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PSY 4658. History and Systems of Psychology (3). F; S.

GEN ED: Capstone Experience

An analysis of the philosophical and empirical antecedents of modern psychology and the contemporary systems which emerge from these. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor. (WRITING; SPEAKING)

PSY 4660. Psychological Tests and Measurements (3). F; S.

An overview of the basic concepts of psychological measurements, strategies used to develop psychological tests, important legal and ethical issues in testing and measurement, as well as relevant historical and theoretical perspectives. Students will be introduced to the uses of psychological tests and measurements in various types of settings, such as clinical, educational, and industrial/organizational. Prerequisite: PSY 3100 or permission of the instructor. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PSY 4700. Applied Behavior Management (3). S.

An advanced study of the philosophy, principles, and procedures of applied behavior analysis and a review of selected research. Practical, ethical, and legal constraints on behavioral interventions are considered. Research conducted in institutional, educational and home settings is emphasized. Prerequisites: PSY 1200 and PSY 3100 or permission of the instructor. (WRITING) [Dual-listed with PSY 5800.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

PSY 4900. Internship: Field Work in Applied Psychology (1-6).F;S.

Supervised placement in a setting that provides appropriate opportunity for observing and practicing psychological skills. Among the settings in which such skills could be practiced are mental health centers, hospitals, rehabilitation centers, and departments in which personnel services are coordinated. Students must seek approval of the undergraduate internship coordinator before enrolling. Graded on an S/U basis. Prerequisites: PSY 3100 and must be majoring in psychology, and/or approval of the undergraduate internship coordinator.

Department of Sociology (SOC)

W. Edward Folts, Chair

Elizabeth L. Davison

Jacob C. Day

Beth A. Latshaw

Cameron D. Lippard

Martha McCaughey

Kenneth B. Muir

Bradley Nash, Jr.

Pavel I. Osinsky

Amy Dellinger Page

James R. Peacock

Jammie L. Price

Janice G. Rienarth

Ed Rosenberg

Katrina Seitz

G. Michael Wise

The mission of the Department of Sociology is to provide a rich and broad foundation of knowledge about social life and appreciation of the diversity of cultural and social arrangements within the United States and around the world. Utilizing a variety of theoretical perspectives within the liberal arts, sociological traditions, and gerontological traditions, the faculty strive to explore the social causes as well as the social consequences of human behavior. Through teaching, scholarly activities, and service, the faculty provide an educational experience that encourages students to clarify their personal values and goals and that presents a holistic conception of individuals, families, groups, organizations, communities, and societies. Through the study of social structures and processes, and through the practical application of these studies, students are given an opportunity to identify and understand the social forces at work in any society, to appreciate the complexity and interconnectedness of the diverse elements in modern societies, and to participate more knowledgeably and skillfully in their chosen careers and in society.

The Bachelor of Arts degree in Sociology (290A/45.1101)

The program of study is available at: www.programsofstudy.appstate.edu/sociology-ba-290a-2012-2013

The Bachelor of Science degree in Sociology (non-teaching) (284*/45.1101)

For the Bachelor of Science in Sociology, students must select one of the following concentrations:

Applied Research Methods concentration (284D):

The program of study is available at: www.programsofstudy.appstate.edu/sociology-bs-applied-research-methods-284d-2012-2013

Criminology, Deviance and Law concentration (284L):

The program of study is available at: www.programsofstudy.appstate.edu/sociology-bs-criminology-deviance-and-law-284l-2012-2013

Families and Intimate Relationships concentration (284M):

The program of study is available at: www.programsofstudy.appstate.edu/sociology-bs-families-and-intimate-relationships-284m-2012-2013

Gerontology concentration (284G):

The program of study is available at: www.programsofstudy.appstate.edu/sociology-bs-gerontology-284g-2012-2013

Individually Designed concentration (284I):

The program of study is available at: www.programsofstudy.appstate.edu/sociology-bs-individually-designed-284i-2012-2013

Social Inequalities concentration (284K):

The program of study is available at: www.programsofstudy.appstate.edu/sociology-bs-social-inequalities-284k-2012-2013

Minor in Sociology (290/45.1101) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/sociology-minor-290-2012-2013

Minor in Gerontology (253/30.1101) (15-18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/gerontology-minor-253-2012-2013

Honors Program in Sociology

The Department of Sociology offers an honors program composed of nine semester hours of disciplinary honors work including a three semester hour honors thesis. Disciplinary honors courses will be drawn from designated honors courses offered at the introductory, intermediate and advanced course levels in the department. Enrollment in sociology honors courses is by permission of the departmental honors coordinator. However, to graduate with "honors in sociology," a student must be a major, have maintained an overall grade-point average of 3.4 and an overall sociology grade-point average of 3.4, have no grade less than "B" in any honors-designated course, and have completed a departmental honors thesis.

Graduate Programs

The Department of Sociology offers a Master of Arts degree in Gerontology and graduate certificate programs in Gerontology and Sociology. Students interested in these programs should consult the *Graduate Bulletin* for further information.

Courses of Instruction in Sociology (SOC)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SOCIOLOGY (SOC)

SOC 1000. The Sociological Perspective (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Individual and Society")

This course applies the sociological perspective to the experience of individuals within differing social contexts, ranging from interpersonal interactions and small groups to larger organizations and the broader society. Relationships between individuals and their societies are examined with respect to a variety of issues, including socialization processes and cultural diversity; the nature of gender, racial, and other social identities; and institutional settings ranging from the family to the economy and government. Required for majors and minors. (CORE: SOCIAL SCIENCES)

SOC 1100. Social Problems in American Society (3).F;S.

GEN ED: Aesthetic Perspective (Theme: "Social Change Through the Arts"); Historical and Social Perspective (Theme: "Revolutions and Social Change")

A survey course which examines the major social problems in America today, such as poverty, racism, sexism, aging, militarism and war, environmental abuse, crime, mental illness, drug abuse and alcoholism. (CORE: SOCIAL SCIENCES)

SOC 1110. Sociology of Intimate Relationships (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Democracy and Personal Life")

Sociological perspectives and knowledge concerning intimate relationships, marriage, and family life in American society. General topics include marriage and marital relations; the family as a social institution; intimacy and love; sex, sexuality, and sexual relations; gender relations; singlehood; family dynamics; parenthood and child rearing; family crisis, conflict, and change; and marital separation, divorce, and remarriage. (CORE: SOCIAL SCIENCES)

SOC 1530–1531. Selected Topics (1–4). On Demand.

This course cannot be applied to the sociology major or minor or applied to general education requirements.

SOC 2020. Social Deviance (3).F;S.

This course explores the social construction of deviance and the social causes of and explanations for deviant behavior. The course emphasizes theoretical explanations of social deviation illustrated with substantive examples as they occur in a social context.

SOC 2040. Popular Culture (3).S. Alternate years.

Examines the nature and use of popular culture, and the popular forms of everyday life in America, including popular beliefs, popular images of objects and people, popular events and rituals, and the popular arts. Among topics considered are soap operas, sports, rock and popular music, movies, plays, art, comics, fashions, popular literature, and other forms of mass-mediated culture.

SOC 2060. Religion and Society (3).F. Alternate years.

A general introduction to a sociological perspective on religion. Examines the social meaning and consequences of religion in both its religious and secular roles in modern society.

SOC 2500. Independent Study (1–4).F;S.

SOC 2700. Sociology of Sport (3).S.

This course examines the social significance of sport. Attention will focus on sport as an institution, social process, and its relation to social organization, race, gender, class, and major institutions such as family, education, mass media, government and economics. Students will be provided with an understanding of the impact of sport on culture and vice versa. (CORE: SOCIAL SCIENCES)

SOC 2850. Constructions of Gender (3).F;S.

Sociological introduction to the effects of gender on social relations and contemporary social issues. Major topics include socialization, women as a minority group, work and family, interpersonal power, and law. Historical and cross-cultural analyses also are included. Other topics may be added at the request of the student or the initiative of the instructor. (WRITING) (CORE: SOCIAL SCIENCES)

SOC 3100. Gerontology (3).F;S.

This course will provide a broad overview of the physical, psychological, social, and cultural aspects of aging. Major concepts, issues, and current research on aging will be analyzed, and current and proposed federal, state, and local programs impinging on the aged will be examined.

SOC 3320. Sociology of Conflict Resolution (3).F.

Social conflict is an everyday experience for most people. How we deal with conflict often determines our life outcomes. This class investigates the causes of conflict, the conditions under which conflict leads to violence and the techniques of conflict resolution on both societal and interpersonal levels. This course is designed to help students put sociological theory to practical use.

SOC 3340. Criminology (3).F;S.

Study of origins and purposes of criminal law; survey of the various theoretical approaches to the study of crime causation; examination of various categories of criminal behavior including violent crime, occupational crime, political crime, criminal sexuality; and an overview of the criminal justice system which seeks to deter, convict and punish offenders.

SOC 3350. Corrections (3).F;S.

A study of the history and development of the adult correctional system as part of the larger adult criminal justice system. Includes overview of the criminal justice system, a review and analysis of theories of punishment, a study of institutional treatment in a total institution and the roles of inmates and staff, and a study of alternatives to incarceration such as parole and probation. Prerequisite: SOC 3340 or SOC 3360 or permission of the instructor.

SOC 3360. Juvenile Delinquency (3).S.

A study of the history and development of the juvenile correctional system as part of the larger juvenile justice system. Includes definitions of delinquency, a survey of various theoretical approaches to delinquency causation and punishment, a comparison of the juvenile and adult systems of correction and an overview of the special problems of juvenile offenders.

SOC 3370. Sexual Deviance and Violence (3).S.

Examines the cultural and historical contexts of sexual attitudes and behavior, the definition of deviance, theories of deviance, and specific forms of sexually deviant behavior. Treatment strategies are considered. (WRITING)

SOC 3500. Independent Study (1–4).F;S.

SOC 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

SOC 3530–3549. Selected Topics (1–4). On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the sociology curriculum. May be repeated for credit when content does not duplicate.

SOC 3550. Sociology of Work and Organizations (3).F.

An examination of the social context of work and related organizations, including issues pertaining to job satisfaction, organizational structure and dynamics, managerial strategies and leadership, and the nature of occupations and professions. The impact of contemporary social transformations such as labor force diversity, technological development, and economic globalization are also analyzed. (CROSS-DISCIPLINARY)

SOC 3600. Medical Sociology (3).F.

A study of health care, medical settings, and the medical professions. Includes the creation and epidemiology of disease and illness, the structure of the health care industry, doctor-patient interaction, and major health care problems. (WRITING)

SOC 3710. Sociology of Appalachian Communities (3).S.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

This course examines Appalachian communities from the sociological perspective, with a focus on how the region gives rise to a unique configuration of cultural, institutional, and other social practices. Specific attention is also given to the differences between urban and rural Appalachian communities, as well as the complex relationships Appalachia has with the broader component of American society.

SOC 3750. Propaganda, Media and Society (3).F.

This course will focus on the processes and effects of mass media in the United States from a sociological perspective. It will analyze the effect of the media on human groups and behavior and how media interacts with social organizations such as family, education,

and government. The historical development of the media as it relates to socialization patterns and racial and sexual diversity will be explored and the media's function as a means of propaganda in the U.S. will be analyzed.

SOC 3800. Sociology of War (3).F.

A study of the sociological effects of war on individuals, families, and communities. Topics that are covered include military conscription and the draft, the role of minorities in the military, pro-war and anti-war movements, readjustment problems of veterans, war crimes, the portrayal of war in film and music, ethnocentrism and cultural differences, general causes of war and conflict resolution.

SOC 3885. Research Methods I (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Relationship of theory to research; research design, sampling procedures, application of research methodologies. Required of majors. Prerequisites: six semester hours in sociology, including SOC 1000; and ENG 2001 or its equivalent. (WRITING)

SOC 3890. Research Assistance (1). On Demand.

Supervised involvement in faculty research project. May be repeated for a total credit of three semester hours. Graded on an S/U basis.

SOC 3895. Research Methods II (3).F;S.

Data preparation and analysis, computer applications, presentation and interpretation of findings. Required of majors. Prerequisite: SOC 3885 or permission of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

SOC 3950. Sociological Theory I (3).F;S.

This course examines the major theories that have contributed the most to our understanding of social behavior and human relationships. The course covers the early history of sociology. Required of majors. Prerequisite: six semester hours in sociology, including SOC 1000.

SOC 3960. Sociological Theory II (3).F;S.

This course examines the major theories that have contributed the most to our understanding of social behavior and human relationships. The course covers contemporary theories and recent trends. Required of majors. Prerequisites: SOC 1000 and SOC 3950.

SOC 4150. Sociology of Law (3).F.

This course is an introduction to the sociology of law. The primary focus of this course is the sociological perspective on laws and their application in the modern world. Special emphasis will be placed on the interplay between laws and social institutions and on laws contributing to the distinctive characteristics of the modern world.

SOC 4250. Collective Behavior and Social Change (3).F. Alternate years.

A study of the forces that impact upon society and the delivery of services by governments either through revolution or orderly directed change; the study of the strategy, tactics and effects of change and who affects change.

SOC 4340. Punishment in American Society (3).F.

This course provides a sociological survey of the relationship between crime and physical punishment in American society. Legal practices, such as capital punishment, as well as extralegal practices, such as lynchings, are both addressed. The social influence of factors such as religion, race, sex, and class on punishment practices are also examined. Prerequisite: SOC 3340 or SOC 3350.

SOC 4350. Constructing Bodies and Sexualities (3).F;S.

This course examines the social construction of bodies and the way in which those constructions inform our conceptions of sexuality and procreation. In addition, the course examines how research on sexuality and sexual orientation is conducted and the unique ethical concerns and methodological challenges in researching sexuality. Social policies relevant to bodies and sexualities are also covered. Prerequisite: SOC 2850.

SOC 4390. Applied Sociology Seminar (3).F;S.

This course is REQUIRED prior to taking SOC 4900 (Internship). Topics include: (1) an introduction to applied sociology, (2) the history, value and rationale of experiential learning, (3) personal values discovery and skills assessment, (4) exploring career options requiring sociological skills, (5) developing job seeking skills and preparing for an internship, (6) learning to turn academic education into job transferable skills, and (7) applying sociological skills in the work environment. Prerequisite: six semester hours in sociology, including SOC 1000.

SOC 4450. Senior Seminar (3).F;S.*GEN ED: Capstone Experience*

Synthesis, application, and evaluation of sociological perspectives to enhance the understanding of sociology, social behavior, and social issues. Consideration of major theoretical and methodological approaches in sociology and application of the sociological imagination, principles, and concepts to everyday life. Emphasis on the development of critical and analytical thinking skills. Required of majors. Prerequisites: SOC 3885, SOC 3895, SOC 3950, and SOC 3960. (WRITING; SPEAKING)

SOC 4510. Senior Honors Thesis (3).On Demand.

Independent study and research. Honors thesis directed by a member of the Department of Sociology. Prerequisites: completion of six semester hours of departmental honors work and permission of the departmental honors coordinator.

SOC 4530-4549. Selected Topics (1-4).On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided in the sociology curriculum. May be repeated for credit when content does not duplicate.

SOC 4560. Race and Minority Relations (3).F.*GEN ED: Historical and Social Perspective (Theme: "Cultural Diversity")*

Examination of intergroup relations, including racial, ethnic, and women's issues; the bases of conflict, accommodation, and assimilation; the nature and consequences of prejudice and discrimination; evaluation of proposals for reduction or elimination of prejudice and discrimination. (MULTI-CULTURAL) [Dual-listed with SOC 5560.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SOC 4600. Political Sociology (3).S.Alternate years.

An analysis of the social influences on political behavior, the relationship between political and other institutions, the uses and abuses of political power. [Dual-listed with SOC 5600.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SOC 4650. Women in the Justice System (3).S.

This course will explore issues related to women in the criminal justice system. It will examine the types of crime committed by women, treatment of women by police, courts, and the correctional system, women's victimization by battering, rape, and harassment, and women in non-traditional criminal justice occupations. [Dual-listed with SOC 5650.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SOC 4750. Social Stratification (3).F.

A study of the distribution of wealth, power, privilege, and prestige. The course examines conservative, liberal, and radical explanations of human inequality. Cross-cultural and comparative analysis is used to focus on various problems of inequality and their consequences. (MULTI-CULTURAL) [Dual-listed with SOC 5750.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SOC 4800. Sociology of the Family (3).S.

The origin and development of the family as a social institution; the contemporary family in various cultures; the relationship of the family to the economic, political, religious, and educational institutions in American society. Prerequisite (for undergraduates): SOC 1110. [Dual-listed with SOC 5800.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SOC 4850. Globalization and Population (3).On Demand.

This course examines how worldwide changes have given rise to global organizations, global inequities and some environmental degradation. Special emphasis is placed on how the population dynamics of fertility, mortality and migration underlie many global issues and create new conflicts. [Dual-listed with SOC 5950.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SOC 4900. Internship (3-6).F;S.

Supervised placement in a setting which provides an opportunity for students to observe and practice sociological skills. Graded on an S/U basis. Prerequisites: SOC 4390 and completion of 90 semester hours of coursework, including 18 semester hours of sociology coursework, with a minimum overall GPA of 2.0.

The Walker College of Business

The John A. Walker College of Business

Randal K. Edwards, Dean

Heather Hulburt Norris, Senior Associate Dean for Undergraduate Programs and Administration

Joseph Cazier, Associate Dean for Graduate Programs and Research

Martin B. Meznar, Associate Dean for International Programs and Assessment

Mission

The Walker College of Business offers undergraduate and master's level business programs at Appalachian State University, a public, comprehensive university in the University of North Carolina system of higher education. Our mission is to offer high quality educational experiences preparing our students to be responsible, effective leaders and professionals in a rapidly changing, global environment. To accomplish this, our focus is on instructional excellence, complemented by scholarship in practice, theory and pedagogy, and service activities that benefit the business discipline and the broader community.

Vision

The Walker College of Business aspires to have nationally recognized undergraduate business programs and select graduate programs with strong regional reputations.

Values

In fulfilling our mission and pursuing our vision, the college will:

- Support a commitment to honesty, integrity, and ethical behavior
- Seek quality, innovation, and efficiency in our efforts
- Cultivate meaningful student–faculty relationships so that each can learn, grow, and be fulfilled in their work
- Provide opportunities for multicultural learning and experiences
- Maintain a supportive, collegial learning environment that respects individuals and their uniqueness, preserves academic freedom, and promotes interdisciplinary efforts

Departments

The Walker College of Business consists of the following six departments:

Accounting	Finance, Banking and Insurance
Computer Information Systems	Management
Economics	Marketing

NOTE: Although the requirements for most degree programs at Appalachian can be met within the minimum of 122 semester hours, the student should be aware that certain programs of study require additional hours. Students are advised to check with the department of their intended major early in their studies. Meeting graduation requirements is the student's responsibility.

Degrees Offered

Through the Walker College of Business, students can obtain the following degrees:

1. Bachelor of Science in Business Administration (BSBA), with majors in Accounting; Computer Information Systems; Economics; Finance and Banking; Hospitality and Tourism Management; International Business; Management; Marketing; Risk Management and Insurance
2. A Master of Business Administration (MBA)
3. A Master of Science (MS) in Accounting

The Department of Economics offers a Bachelor of Arts degree in Economics through the College of Arts and Sciences.

Academic Advising Services

Academic Advising for declared business majors is available through the College of Business Undergraduate Advising Office in 2126 Raley Hall. Students should visit the College of Business Undergraduate Advising Office to make arrangements to meet with an advisor once their records have been transferred to the College of Business.

Students are not assigned a specific advisor but rather may sign up to see any available advisor; however, neither advisement by a representative of the College of Business nor transference of records to the College constitutes admission to the College.

Although academic advising is provided for all students, the final responsibility for meeting requirements for graduation remains with the student. Students should arrange to have a **graduation audit** the semester before expected graduation (or the semester prior to the last semester of course work for students planning an internship or study abroad during their last semester). Applications

The Walker College of Business

for graduation should be completed in the Registrar's Office at the beginning of the term in which graduation requirements will be met.

To officially declare a business major and transfer records to the Walker College of Business, a student must meet the following requirements:

1. Obtain credit for at least 30 semester hours
2. Obtain a cumulative grade-point average of at least 2.0
3. Obtain credit for ENG 1000 or an equivalent course and obtain credit for or be currently enrolled in UCO 1200 or an equivalent course if not waived by the University
4. Contact the University College Academic Advising Office located in Room 101 of D.D. Dougherty Hall (or the Walker College of Business Advising Center if enrolled in a degree-granting college)

To be admitted to the Walker College of Business, a student must:

1. Obtain credit for at least 60 semester hours
2. Obtain a cumulative grade-point average of at least 2.5 based on at least twelve graded semester hours at Appalachian State University
3. Remove all grades of "I" (incomplete) from her/his academic record. Students with outstanding grades of "I" will NOT be admitted to the Walker College of Business.
4. Obtain credit for ENG 1000 and ENG 2001 or equivalent courses with a minimum grade of "C" in each
5. Obtain credit for MAT 1030 (or MAT 1110) with a minimum grade of "C-"
6. Obtain credit for the following College of Business lower level core courses with an overall grade-point average of at least 2.0 and a minimum grade of "C-" in each course: ACC 2100, ACC 2110, ECO 2030, ECO 2040, ECO 2100, LAW 2150 (STT 2810 can substitute for ECO 2100.)
7. Demonstrate Computer Proficiency by passing either a College of Business basic Computer Skills Test or CIS 1026 with a minimum grade of "C-".

Special Note About Enrollment in Upper Level Business Courses

Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

Bachelor of Science in Business Administration (BSBA)

In order for a student to earn the Bachelor of Science in Business Administration degree, the following requirements must be met:

1. Satisfy all of the Walker College of Business admission requirements listed above.
2. Complete a minimum of 122 semester hours (125 s.h. for the BSBA degree in International Business).
3. Meet the following grade-point average requirement:
 - All majors are required to obtain a cumulative grade-point average of at least 2.5 in order to be admitted to the College of Business.
 - All majors are required to obtain an overall cumulative grade-point average of at least 2.0 in order to graduate.
 - All majors are required to obtain a grade-point average of at least 2.0 in all work attempted in the College of Business in order to graduate.
 - Marketing majors are required to obtain a 2.0 grade-point average in the 18 semester hours of required marketing courses above MKT 3050 in order to graduate.
 - Accounting majors are required to obtain a 2.0 grade-point average in the 27 semester hours of required accounting courses above the sophomore level in order to graduate.
 - Computer Information Systems majors are required to obtain a 2.5 grade-point average in the 24 semester hours of re-

The Walker College of Business

- required computer information systems courses above CIS 2050 in order to graduate.
 - International Business majors are required to obtain a 2.0 grade-point average in the 15 semester hours of foreign language required in the BSBA degree in International Business in order to graduate.
4. Obtain credit for the University-wide general education curriculum. Students can count ECO 2030 (Perspectives course), MAT 1030 (Quantitative Literacy course), ENG 3100 or BE 3340 (Junior Writing in the major courses), and BUS 4000 (Senior Capstone Experience in the major) in both general education and major requirements.
 5. Obtain credit for the following 18 semester hours of lower level core courses required for college admission with an overall grade-point average of at least 2.0 and a minimum grade of "C-" in each course: ACC 2100, ACC 2110, ECO 2030, ECO 2040, ECO 2100, LAW 2150 (STT 2810 can substitute for ECO 2100.)
 6. Demonstrate Computer Proficiency by passing either a College of Business basic Computer Skills Test or CIS 1026 with a minimum grade of "C-".
 7. Obtain credit for the following 25 semester hours of additional core courses: ECO 2200, ENG 3100 or BE 3340, CIS 2050, FIN 3680, MGT 3630, MKT 3050, POM 3650, MGT 4750, and BUS 4000
 8. Fulfill a Global Issues requirement through one of the following:
 - an international business class (ACC 4730, BUS 4540, CIS 3620, ECO 3410, ECO 3430, ECO 4640, FIN 3075, FIN 3350, FIN 4750, MGT 3190, MGT 3670, MGT 3800, MKT 4550, SCM 3680, SCM 3690, or other as approved by the Assistant Dean for International Programs in the College of Business)
 - a business summer study abroad with at least 3 semester hours of credit
 - a semester-long study abroad for credit
 - a full-time (400-hour minimum) internship abroad for credit, or
 - a foreign language course at or above the 3000 level
 9. Obtain credit for 27-39 semester hours of major requirements including business electives, which are described in detail in each departmental section of this bulletin
 10. Obtain credit for 2-11 semester hours of electives as required for the specific major (which are described in detail in each departmental section of this bulletin).
 11. A minor is not required for the BSBA degree (except for the BSBA in International Business, which requires either a minor in an approved foreign language, or a minimum of 15 semester hours at the 2000 level or above in the selected language if no minor is available at ASU); however, a minor in International Business is available for all business majors (except International Business majors). Also, a business major can complete a minor in Supply Chain Management or any minor outside the College of Business.
 12. Completion of all University residency requirements. At least 50 percent of the business credit hours required for the BSBA degree must be completed IN RESIDENCE at Appalachian
 13. Compliance with regulations concerning the settlement of all expense accounts
 14. Recommendation of the faculty

Bachelor of Arts Degree (BA)

In cooperation with the Department of Economics, the College of Arts and Sciences offers the Bachelor of Arts degree in Economics. The requirements for this degree can be found in the College of Arts and Sciences section of this *Undergraduate Bulletin*.

Transfer Credit Policy

The Walker College of Business (WCOB) does not award transfer credit for courses taken at the freshman or sophomore level toward courses offered at the junior or senior level at Appalachian State University.

Transfer credit for courses that were taken at the junior or senior level from an AACSB International-accredited business program at a four-year university will be considered. Students must present the following to the departmental chair of the relevant academic program in the ASU Walker College of Business: the catalog course description and/or other course materials as requested by the departmental chair. Provided ASU's Residency Requirements and course grade requirements are met, the final decision to award transfer credit rests with the departmental chair.

Requests for exceptions to the WCOB's transfer credit policy should be directed to the relevant departmental chair.

Honors Program in the Walker College of Business

The Walker College of Business (WCOB) offers an honors program for selected students who have distinguished themselves with a minimum cumulative grade-point average of 3.4. To graduate with WCOB Honors, students must attain a minimum 3.4 GPA in all WCOB Honors courses and a minimum 3.4 cumulative GPA. The program consists of a minimum of nine (9) semester hours of core

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courses and an honors thesis during the junior and senior years. Its purpose is to provide honors students with a more intellectually stimulating environment and a broader range of academic experiences in a smaller classroom setting than can be provided in a traditional academic program.

International Business Studies

The Walker College of Business has an extensive program of study in international business which includes specialized courses, study abroad opportunities, and international internships. It is designed to assist students in developing skills needed to compete in world markets and to contribute to their preparation for careers in export marketing and export sales management, global sourcing, international finance and banking, international economics, international accounting and management of a multinational firm.

International Business Major

The BSBA degree in International Business is available to students interested in pursuing a more intensive, internationally focused curriculum that includes developing foreign language competency, heightened cultural awareness and multi-disciplinary business training with an international focus.

The Bachelor of Science in Business Administration degree in International Business (337A/52.1101)

The program of study is available at: www.programsofstudy.appstate.edu/international-business-bsba-337a-2012-2013

Undergraduate Minor in International Business (337/52.1101)

The International Business minor (15 semester hours) is available to all majors, except International Business majors. The minor provides multidisciplinary business training designed to complement the student's functional major. This allows students the opportunity to develop their functional skills while utilizing their elective hours to study the international aspects of business. Students not admitted to the College of Business may take at most five business courses at the 3000 or 4000 level (unless more is required by a business minor or non-business major). Students must meet all eligibility requirements to take 3000-4000 level business courses.

The program of study is available at: www.programsofstudy.appstate.edu/international-business-minor-337-2012-2013

Business Study Abroad Programs

The interdependence of the U.S. economy with economies of other nations has made today's business environment global. Changes in worldwide communications and distribution technologies have made the delivery of products and services from virtually any place in the world competitive on a time and cost basis with local businesses. Consequently, business leaders must incorporate an international dimension in their decision-making to be successful in this rapidly changing world. Therefore, the Walker College of Business strongly encourages its students to broaden their global vision through study abroad programs.

Students may complete one or two sessions of summer school in business study abroad. The College offers programs on a demand basis in Australia, Brazil, Chile, China, England, France, Germany, Italy, Japan, Mexico, Poland, Russia, Scandinavia, Thailand, and Vietnam. Before departure, students meet regularly to study the country's geography, economic, demographic and political trends, cultural differences and, where required, to learn simple expressions in a foreign language. While overseas, students have the opportunity of visiting foreign firms, government agencies and international banking, insurance and commercial centers besides cultural and historical attractions.

The College promotes interdisciplinary study abroad programs and has conducted programs in partnership with foreign languages and art. More important, the College's study abroad programs are dynamic. We are constantly exploring and developing new opportunities for studying in other countries or jointly with other disciplines.

Since international study produces students with greater flexibility and adaptability in meeting the challenges of today's economic environment, the College wants to make available this opportunity to as many students as possible. Therefore, the business study abroad programs are designed to be affordable alternatives to summer school for Appalachian students and the College provides a limited number of scholarships to help students participate in these programs.

William R. Holland Fellows Program for Business Study in Asia

Established in 1997, the Holland Fellows Program provides a once-in-a-lifetime opportunity for Walker College of Business students to join students from Fudan University (Shanghai, PRC), in classes and on project assignments, as a way of learning about Chinese business practices and culture. Twelve students are selected in October and, after intensive study during the spring semester, travel to China in May.

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Undergraduate Minor in General Business (324/52.0101) (for non-business majors only)

Students not majoring in the Walker College of Business may earn a General Business minor by completion of 18 semester hours of coursework.

The program of study is available at: www.programsofstudy.appstate.edu/general-business-minor-324-2012-2013

Minors for non-business majors are also available in accounting, computer information systems, economics, entrepreneurship, international business, marketing, and supply chain management. No more than one business minor can be declared by a non-business major. These minors are described in the appropriate departmental sections of this bulletin. The entrepreneurship minor is administered by the Department of Management; the Supply Chain Management minor is administered by the Department of Computer Information Systems. For a more specialized minor or additional information, see the appropriate department chair.

Graduate Degrees

The Walker College of Business offers two master's degrees: the Master of Business Administration (MBA) and the Master of Science (MS) in Accounting. In addition, the College participates in a program leading to the Master of Arts degree in Industrial-Organizational Psychology and Human Resource Management. Students interested in graduate work in the College of Business are encouraged to talk with the MBA Director or the MS in Accounting Director. For additional information, please refer to the *Graduate Bulletin*.

Scholarships

The Walker College of Business offers several scholarships to entering freshmen business students. For all renewable business scholarships, a student must maintain good academic standing to retain the scholarship. The Walker College of Business scholarship committee considers factors such as the SAT score, high school grade-point average, class rank, extracurricular activities, interest in a business career and evidence of leadership and maturity in making its selection for each of the freshmen scholarships. Freshmen finalists are invited to campus for an interview.

In addition to the freshmen awards, scholarships are available for juniors and seniors. Applicants must be full-time students making satisfactory academic progress towards a degree in business. Information about these scholarships may be obtained from the Walker College of Business scholarship coordinator or by visiting www.business.appstate.edu/scholarships/

Internship Programs

The Walker College of Business offers internship opportunities for juniors and seniors admitted to the College of Business. Internships are designed in the areas of accounting, computer information systems, economics, finance and banking, hospitality and tourism management, international business, insurance (actuarial science), management, marketing, and supply chain management, and must be approved by the department advisor and internship coordinator. An internship is required for students majoring in hospitality and tourism management. Students participating in the internship program must register for an internship course (see courses listed as 3900) and pay registration and tuition fees.

Executive-in-Residence Program

An executive with a business firm serves as an instructor in the College of Business for a semester or shorter period of time. Through special classes and seminars, students can interact with these business leaders to gain valuable insight into the "real world" of business.

Harlan E. Boyles Distinguished CEO Lecture Series

Each fall and spring semester, a chief executive officer from a corporation with a strong presence in North Carolina is invited to present a lecture to faculty, administrators, and students. During the reception that follows the lecture, students have the opportunity to interact with some of North Carolina's top business leaders in an informal setting.

Business Advisory Council

The Council is composed of a group of business men and women who meet twice a year to advise College administrators on matters relating to the needs of the business community. The businesses represented by the members are diverse and include major accounting, manufacturing, retail, financial, legal and medical firms. Council members are given opportunities to meet with students in small focus groups.

Beta Gamma Sigma

Membership in Beta Gamma Sigma is the highest national recognition a student can receive in an undergraduate or master's program in business or management accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

This national honorary society for business administration students was founded in 1913. The Appalachian chapter was established in 1977. Membership is limited to outstanding students who rank in the upper ten percent of the junior class, upper ten percent of

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the senior class, or upper twenty percent of their graduate class. Detailed information can be obtained from the College of Business Dean's office.

Clubs and Organizations

More than twenty professional organizations and honor societies are represented in the Walker College of Business. Membership offers students the opportunity to join with other students in their specific areas of interest.

Visit www.business.appstate.edu/students/clubs.php for details.

Walker Fellows

The Walker Fellows, a group of business students, serve as representatives to all constituents of the Walker College of Business, including students, alumni, faculty/staff, and the business community through service, events and academic programs.

Visit www.walkerfellows.appstate.edu for details.

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Courses of Instruction in Business (BUS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

BUSINESS (BUS)

BUS 1050. Introduction to Business (3).F;S.

The focus of this course is to familiarize students with a general understanding of business, the importance of the consumer and the interrelatedness of business functional areas. (CROSS-DISCIPLINARY)

BUS 1530–1549. Selected Topics (1–4). On Demand.

BUS 2530–2549. Selected Topics (1–4). On Demand.

BUS 3010. Business Study in Great Britain (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Great Britain. Comparative British business practices are emphasized through research activities, visits to British firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3020. Business Study in Scandinavia (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Denmark, Norway and Sweden. Comparative Scandinavian business practices are emphasized through research activities, visits to Scandinavian firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3030. Business Study in Germany (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Germany. Comparative German business practices are emphasized through research activities, visits to German firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3040. Business Study in Australia (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Australia. Comparative Australian business practices are emphasized through research activities, visits to Australian firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3050. Business Study in France (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in France. Comparative French business practices are emphasized through research activities, visits to French firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

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BUS 3060. Business Study in Italy (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Italy. Comparative Italian business practices are emphasized through research activities, visits to Italian firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3070. Business Study in Russia (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Russia. Comparative Russian business practices are emphasized through research activities, visits to Russian firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3080. Business Study in Japan (6).On Demand.

This course provides students with an opportunity to study business practices, trade and economic policies, and culture in Japan. Comparative Japanese practices are emphasized through research activities, visits to Japanese firms and educational institutions, and through cultural and historical site visits. Students are required to attend pre-travel seminars during the spring semester. Graded on an S/U basis.

BUS 3530–3549. Selected Topics (1–4). On Demand.

BUS 3900. International Business Internship (6).SS.

A ten week full-time (400 hours) business work experience abroad. Prerequisites: BUS 3900 is limited to College of Business majors and requires permission of the Assistant Dean for International Programs and the International Business internship coordinator. Graded on an S/U basis.

BUS 4000. Business Capstone Experience (1).F;S.

GEN ED: Capstone Experience

This course synthesizes the knowledge gained in the business discipline by using comprehensive integrative exercises. Emphasis on demonstrating competence in oral and written communication, thinking critically, and making local to global connections. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), completion of all College of Business core courses other than MGT 4750, and final semester senior standing.

BUS 4530–4549. Selected Topics (1–4). On Demand.

Department of Accounting (ACC)

Timothy B. Forsyth, Chair

Susan E. Anderson

Penelope L. Bagley

William M. Baker

Kennard S. Brackney

Randal K. Edwards, Dean

Mary Ann Hofmann

Rebecca Kaenzig

Rachel Keller

Claudia L. Kelley

Tamara K. Kowalczyk

Ronald E. Marden

Alvaro Martinelli

Dwayne N. McSwain

Kenneth E. Peacock, Chancellor

William B. Pollard

Tracy N. Reed

F. Douglas Roberts

H. Lynn Stallworth

Philip R. Witmer

Janet L. Woods

Accounting students are encouraged to acquire a sound liberal education. They are expected to understand the broader purposes of business. Accounting courses in the curriculum are designed to develop strong professional capabilities which enable students to succeed in their chosen career paths in public accounting, managerial accounting and accounting for not-for-profit institutions such as hospitals or governmental entities.

Students are encouraged to consider planning a program of six to seven semesters and/or summer sessions of study beyond the sophomore level in order to:

1. Earn both the Bachelor of Science in Business Administration and the Master of Science degrees in accounting
2. Spend one-half or one semester as an intern (with pay) in accounting with a CPA firm, business firm, governmental entity, or not-for-profit private institution. Internships are optional.
3. Study in a selected area of accounting (for example, auditing or taxation) or a complementary discipline
4. Spend a summer session abroad to gain perspective on the international aspects of accounting/business

Students majoring in accounting may earn the BSBA degree in four to five semesters and/or summer sessions of study beyond the sophomore level. Credit toward the BSBA is given for approved internships. Prior to an internship the student must consult with the departmental chair or internship coordinator regarding courses that should be taken following the internship. A special option for accounting majors is a ten-week winter internship for six semester hours of credit. Students completing the special winter internships return to campus in mid-March and attend special "spring minimester" accounting courses to earn an additional six semester hours of credit, making a total of 12 hours of credit for the entire spring semester. The 10 week winter internships and spring "minimester" courses were offered first in North Carolina at Appalachian.

The Bachelor of Science in Business Administration degree in Accounting (301A/52.0301)

The program of study is available at: www.programsofstudy.appstate.edu/accounting-bsba-301a-2012-2013

Accounting students are encouraged to purchase a current computer for use during their education. As a minimum, this computer should include the latest releases of spreadsheet and word processing software packages.

Students intending to qualify for one of the professional examinations in accounting should include the following courses in their curriculum as part of the requirements, electives or extra hours:

CPA Examination: ACC 3560, ACC 5640, ACC 5660, ACC 5990

CMA Examination: ACC 5660, ACC 5990, ECO 3020, FIN 3690

The certifying agency should be contacted for specific examination requirements.

Undergraduate Minor in Accounting (301/52.0301) (for non-business majors only)

For non-business majors, a minor in Accounting may be obtained by the completion of 15 semester hours

The program of study is available at: www.programsofstudy.appstate.edu/accounting-minor-301-2012-2013

Master of Science

A Master of Science in Accounting consisting of 30 semester hours is available. For more information, refer to the description of the Master of Science in Accounting program in the *Graduate Bulletin*.

Courses of Instruction in Accounting (ACC)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

ACCOUNTING (ACC)

ACC 1050. Survey of Accounting (3).F;S. NOT AVAILABLE TO BUSINESS MAJORS.

An overview of financial and managerial accounting. The course focuses on the analysis of financial data with an emphasis on accounting issues faced by small businesses such as business planning, budgeting, and performance evaluation. This is the ideal course for the business minor and for non-business majors interested in understanding the role of accounting in the business world.

ACC 1530–1549. Selected Topics (1–4). On Demand.

ACC 2100. Principles of Accounting I (3).F;S.

The initial course in the theory and practice of financial accounting. Topics emphasized include the preparation, reporting, and analysis of financial data. Prerequisite: Students must have successfully completed 24 semester hours of college credit. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 2110. Principles of Accounting II (3).F;S.

A course dealing with the concepts and development of accounting data for decision making. Topics emphasized include manufacturing cost systems, cost-volume-profit analysis, and budgeting concepts. Prerequisite: ACC 2100 with a minimum grade of "C-". (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 2500. Independent Study (1–4).F;S.

ACC 2530–2549. Selected Topics (1–4). On Demand.

ACC 3100. Intermediate Accounting I (3).F;S.

The financial accounting environment and development of accounting theory. Integration of the conceptual and computational aspects of income measurement, valuation, and reporting problems associated with the accounting cycle, statement preparation and asset accounting. Prerequisite: a minimum grade of "C-" in ACC 2110. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 3110. Intermediate Accounting II (3).F;S.

A continuation of ACC 3100. Integration of the conceptual and computational aspects of asset, liability and stockholders' equity accounting. Prerequisite: a minimum grade of "C-" in ACC 3100. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 3150. Financial Statement Preparation and Analysis (3). On Demand. NOT AVAILABLE TO ACCOUNTING MAJORS.

A study of the concepts and current methods used to prepare financial statements. Important off-balance sheet items are examined. This course also examines several methods of analysis of financial statements. Computer applications are covered. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 3160. Introduction to Individual Taxation (1). On Demand. **NOT AVAILABLE TO ACCOUNTING MAJORS.**

Preparation of state and federal income tax returns. Topics emphasized include gross income, adjusted gross income, deductions and exemptions, capital gains and losses, computation of tax liability, audit of tax returns, tax questions, the IRS and the courts.

ACC 3200. Cost Accounting (3).F;S.

Introduction to cost accounting, definitions and objectives. Topics emphasized include cost-volume-profit relationships, job-order accounting, budgeting, systems design and human motivation, flexible budgets, standard costs, contribution approach to decisions, cost allocation, joint product and by-product costing, process costing. Prerequisite: ACC 2110 with a minimum grade of "C-". (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 3500. Independent Study (1–4).F;S.

ACC 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

ACC 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

ACC 3530–3549. Selected Topics (1–4). On Demand.

ACC 3560. Accounting for Non-Profit Organizations (3).F;S.

Application of principles of accounting, budgetary control, and financial management to nonprofit organizations. Discussion and cases will be drawn from municipal and county governmental units, universities, hospitals, and other nonprofit organizations. Prerequisite: ACC 2110 with a minimum grade of "C-". (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 3570. Accounting Systems and Internal Control (3).F;S.

An in-depth treatment of internal control and related accounting procedures; authorization and documentation; flowcharting, data flow diagrams, and scheduling. Design of information systems that process financial transactions for financial and management accounting, and to meet legal requirements for adequacy of accounting records and internal controls. Development of skills and expertise required for the study of contemporary accounting systems and internal auditing. Knowledge of a computer programming language is desirable but not essential. Prerequisite: ACC 3100 with a minimum grade of "C-". (COMPUTER)

ACC 3580. Individual Income Taxation (3).F;S.

Concepts and methods of determining federal income tax liability for individuals. Topics emphasized include personal deductions, tax credits, capital gain and loss provisions and accounting methods. Emphasis is also placed on research methodology and individual tax planning. Prerequisite: ACC 2110 with a minimum grade of "C-". (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 3900. Internship (6 or 9).F;S.

A full-time work situation for accounting majors providing an in-depth exposure in accounting practices. Nine hours granted for 15-week internship, six hours granted for 10-week summer internship or the special senior internship scheduled during a mini-session of the spring term. The student must report on her/his experiences and will participate in individual conferences and/or seminars related to the experience. Prerequisites: admission to the Walker College of Business and permission of the departmental internship coordinator. Graded on an S/U basis.

ACC 4500. Independent Study (1–4).F;S.

ACC 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

ACC 4530–4549. Selected Topics (1–4).On Demand.

ACC 4550. Intermediate Accounting III (3).F;S.

Integration of the conceptual and computational aspects of income determination, financial statement analysis and preparation, special topics, and current pronouncements in financial accounting. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), a minimum grade of "C-" in ACC 3110, and senior standing. (WRITING; SPEAKING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 4560. Introduction to Auditing (3).F;S.

The first course in the auditing sequence introducing the student to selected auditing topics, including selected auditing standards, types of services, analysis of reports, legal responsibility, ethics, and internal control considerations. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ACC 3110 with a minimum grade of "C-".

ACC 4580. Income Taxation of Corporations (3).On Demand.

Concepts and methods of determining federal tax liability of corporations. Topics include ordinary income, capital gains and losses, net operating loss, reorganizations, contemporary problems in corporate taxation and tax research. The student will also be introduced to estate, gift and partnership taxation. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ACC 3580 with a minimum grade of "C-". (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with ACC 5080.] Dual-listed courses require senior standing.

ACC 4590. Advanced Accounting (3).On Demand.

An examination of the special problems in accounting for business combinations and consolidated entities, and foreign currency translation. A critical comparison of SEC accounting report requirements and generally accepted accounting principles. Accounting issues in partnership formation, reporting and liquidation. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ACC 3110 with a minimum grade of "C-".

ACC 4710. Advanced Cost Accounting (3).On Demand.

Advanced cost analysis and cost management with emphasis on modern performance measurement. Cost accounting for world class manufacturing; quality cost accounting and TQM; activity-based accounting systems; theory of constraints, life cycle costing, and target costing. Revenue variances, transfer pricing, and quantitative methods are examined. Other topics are derived from modern applications of cost accumulation systems in the United States and other countries. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ACC 3200 with a minimum grade of "C-". (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ACC 4730. Accounting and International Business (3).F;S.

A study of selected issues in accounting for and taxation of international business and related effects on organizational and operating decisions. Subjects include DISCs and foreign sales corporations; dual taxation and tax treaties; impact of alternative taxing methods on international competition; international accounting standards; foreign current translations; Foreign Corrupt Practices Act. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ACC 2110 or equivalent, with a minimum grade of "C-".

ACC 4760. Internal Auditing (3).On Demand.

An introduction to selected internal auditing topics, including types of services, an overview of the internal audit process, preparation and analysis of reports, internal auditing standards, professional responsibilities, and the code of ethics. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ACC 3110 with a minimum grade of "C-".

Department of Computer Information Systems (CIS)

B. Dawn Medlin, Chair

Timothy H. Burwell

Joseph Cazier

Chien-Hung Chen

Richard E. Crandall

Dinesh S. Dave

Sam K. Formby

Albert L. Harris

Scott Hunsinger

Douglas B. May

Alanah Mitchell

Carol Pollard

Sandra A. Vannoy

The Department of Computer Information Systems offers coursework in the areas of computer information systems, production/operations management, supply chain management, and quantitative methods. Students in computer information systems are encouraged to acquire a broad liberal education in order to understand the interface between the technical and non-technical aspects of business. A major in computer information systems is offered by this department and is designed to develop professional skills/capabilities which enable students to pursue careers in computerized information systems areas in either the public or private sectors of our economy. With the computer information systems major, students will be able to pursue careers in a variety of positions requiring a knowledge of computers and information systems. Students majoring in computer information systems will have the opportunity to work in areas of security, e-business, project management, systems analysis, data management, networking, and programming.

The Bachelor of Science in Business Administration degree in Computer Information Systems (310A/52.1201)

The program of study is available at: www.programsofstudy.appstate.edu/computer-information-systems-bsba-310a-2012-2013

Undergraduate Minor in Computer Information Systems (310/52.1201) (for non-business majors only)

A minor in Computer Information Systems (CIS) may be obtained by completing 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/computer-information-systems-minor-310-2012-2013

Students not admitted to the College of Business may take at most five business courses at the 3000 or 4000 level (unless more is required by a business minor or non-business major). Students must meet all eligibility requirements to take 3000-4000 level business courses. A minimum overall GPA of 2.5 is required in the 15 s.h. of CIS courses to obtain a minor in Computer Information Systems.

Undergraduate Minor in Supply Chain Management (360/52.0205) (for business and non-business majors)

The undergraduate minor in Supply Chain Management (15 semester hours) is available to both business and non-business majors. The minor provides a multi-disciplinary curriculum in supply chain management. The main goal of supply chain management is to improve an organization's profitability while delivering a quality product/service to the customer at the lowest possible cost.

The program of study is available at: www.programsofstudy.appstate.edu/supply-chain-management-minor-360-2012-2013

Students not admitted to the College of Business may take, at most, five business courses at the 3000 or 4000 level (unless more is required by a business minor or non-business major). Students must meet all eligibility requirements to take 3000-4000 level business courses. A minimum GPA of 2.0 (overall) is required for the courses included in the supply chain management minor.

Courses of Instruction in Computer Information Systems (CIS), Production/Operations Management (POM), and Supply Chain Management (SCM)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 1026. Personal Computing Effectiveness (3).F;S.

This course provides a basic understanding of current information technologies used in business, and enhances the use of the most common computer-based applications for personal, academic, and professional goals. Upon successful completion of this course, students should be able to use application software such as Microsoft Office to make better decisions and improve their individual skills. Other topics covered include the use of other information technologies including collaboration and communication tools, emerging technologies and digital media, and security. This course is designed for the user with little experience using computer software. (COMPUTER)

CIS 1530–1549. Selected Topics (1–4). On Demand.

CIS 2050. Foundations of Information Systems (3).F;S.

This course is designed to introduce students to the impacts of computer information systems on the firm, industry, society, and the economy. Students will study issues relating to the design, implementation, use, and control of computer-based information systems. Additionally, students will analyze the role of information systems in reaching organizational objectives including communication, collaboration, performance improvement and strategy implementation. Skill-based learning will reinforce strategic information systems concepts. (WRITING; COMPUTER)

CIS 2500. Independent Study (1–4).F;S.

CIS 2530–2549. Selected Topics (1–4). On Demand.

CIS 3250. Systems Analysis and Design (3).F;S.

This course provides a comprehensive introduction to the strategies and technologies for building information systems in organizations. Course includes planning and discovery, fact finding analysis using techniques such as joint application development (JAD), information systems modeling, use of CASE technologies and current development methods including prototyping, rapid application development and agile development. Project management tools will be used to create work plans and coordinate activities to achieve desired results for the design of a system. Prerequisite: CIS 2050. (WRITING; COMPUTER)

CIS 3500. Independent Study (1–4).F;S.

CIS 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

CIS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

CIS 3530–3549. Selected Topics (1–4). On Demand.

CIS 3580. Networking and IT Infrastructures (3).F;S.

This course introduces students to the processes of selecting, modeling, configuring, and maintaining the components of a company's IT infrastructure. The newest hardware components, networking devices, and security issues will be examined through both individual and group projects. Prerequisite: CIS 2050. (COMPUTER)

CIS 3610. Project Management (3).F;S.

This introductory course will prepare the student for the practice of professional project management. Students will plan and manage projects through the use of hands-on experiences, case studies and computer-based project management tools. Students will address many important issues such as: estimation, scheduling, budgeting, version control, progress tracking, change, risk and crisis management, resource management, motivation, and leadership. (COMPUTER)

CIS 3620. Global Information Technologies (3). On Demand.

This course presents students with the concepts and issues inherent in global information technology. The course examines the issues associated with using technology in a global environment, how global systems are developed, how culture, language, etc. impact systems and their development, outsourcing, strategies for global systems development and use, and issues facing Far East, European, Latin America, and Third World countries. (SPEAKING; MULTI-CULTURAL)

CIS 3680. Programming Software Solutions (3).F;S.

This course focuses on the building of software systems including programming, logic, managing operating systems, and configuring large information systems, such as enterprise resource planning (ERP) systems. In this course, students will use a popular software package to build a working programming interface to solve business problems. Prerequisite: CIS 2050.

CIS 3710. Emerging Technologies (3).F;S.

This class is designed for students with an interest in technology and its various applications not only in the business realm, but also in society at large. Topics of study will range from technologies that are highly specialized to certain industries or segments of the population to those that are highly mainstream. Students will evaluate the validity of new technologies, the “shelf-life” of these technologies and impacts on industry and society. The student will use mobile technologies and learn to program mobile devices.

CIS 3750. Database Management (3).F;S.

This course teaches students how to use data to stay competitive in a changing business environment. Topics include building, modeling and administering a database, data warehousing, data mining, XML and data integration, data security, as well as ethical and legal issues surrounding the use of data in our modern society. Microsoft Access will be one of the primary database toolsets used in this course with an exposure to one or more enterprise database toolsets (Oracle, Microsoft SQL Server, MySQL, etc.). One-third of the course will be dedicated to database queries. Prerequisite: CIS 2050. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

CIS 3820. Ethics and Privacy (3). On Demand.

This course will examine how information systems impact both individuals and organizations. Cultural, ethical, moral, human interaction, privacy, security, and relationship issues will be analyzed and discussed through the use of case studies and papers. The focus of this course will be on the ethical and privacy issues related to security enhancement and the growing use of the Internet.

CIS 3840. Managing Security (3).F;S.

This course is designed as a broad overview of important security topics that are relevant to people and businesses. Relevant areas of security that will be studied include: the need for security on a personal and business level; the management practices surrounding security issues; network security strategies; human factors; access; firewalls; disaster recovery plans; personal security issues; and, personal and business forensics issues.

CIS 3870. Web Development and eCommerce (3).On Demand.

This course focuses on the technology that every leading organization needs to build effective Internet sites, promote Internet presence, secure sites and data, interface with other corporate applications, perform online business transactions, and compete in e-commerce. Current and emerging Internet technologies will be covered. Students will create Web sites and link them to other applications (databases), and will learn how to protect sites and transactional data from theft or privacy intrusions. Students will also understand the basic principles of e-commerce and how technology can promote online competitive advantage.

CIS 3900. Internship (3, 6, or 9).F;S;SS.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship and three semester hours are granted for a 5-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: admission to the Walker College of Business, and permission of the department chair and the internship coordinator. Graded on an S/U basis.

CIS 4500. Independent Study (1–4).F;S.

CIS 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student’s junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

CIS 4530–4549. Selected Topics (1–4).On Demand.

CIS 4585. Advanced Data Communications and Networking (3). On Demand.

This course is a continuation of CIS 3580 and explores advanced topics in data communications and networking. Topics include, but are not limited to, communications middleware, LAN application software, network design, internetworking technologies and design, and network security policy. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and CIS 3580.

CIS 4620. IS Strategy and Ethics (3). On Demand.

This course examines how to effectively lead an information systems organization. Chief Information Officers are tasked to take part in determining corporate strategy based on information technology and its potential role in corporate objectives—while determining the IS (Information System) strategy to most effectively implement the corporate strategy in terms of information technology, IS personnel, data, and telecommunications. That IS strategy focus of this course will be on the ethical and privacy issues related to security enhancement and the growing use of the Internet. IS governance will include personnel issues, legal and financial obligations, data privacy and security, vendor relations, and business unit liaison. This course will also examine how information systems impact both individuals and organizations. Cultural, ethical, moral, human interaction, privacy, security, and relationship issues will be analyzed; ethical and privacy issues related to security enhancement and the growing use of the Internet will be examined. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and CIS 2050.

CIS 4630. Advanced Data Management with Oracle (3). On Demand.

Students will have the opportunity to learn database development techniques using Oracle products including database, designer and developer. Data mining is a broad area dealing with the analysis of large volumes of data that integrates techniques from several fields including machine learning, statistics, pattern recognition, artificial intelligence, and database systems. Data mining is a rapidly growing field that supports decision-making by detecting patterns, devising rules, identifying new decision alternatives and making predictions about the future. The course objective is to present the leading data management techniques using Oracle and their applications to real-world problems. The course is organized around a number of well-defined data mining tasks such as description, classifications, estimation, predictions, and affinity grouping and clustering. The topics covered include: introduction to knowledge discovery in the databases (KDD), statistical methods, emerging modeling techniques such as neural networks, and others. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and CIS 3750.

CIS 4685. Object-Oriented Programming with Java (3). On Demand.

This course will introduce the student to object-oriented (OO) methodologies including modeling using OO CASE tools, encapsulation, polymorphism, and inheritance. Students will have the opportunity to learn programming techniques in Java, program documentation, classes and methods, loops, arrays, streams, exception handling, file I/O, dynamic data structures, recursion and building applets. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and CIS 3680.

CIS 4710. e-Business Systems (3). On Demand.

This seminar course discusses e-business issues that are current, applicable, relevant, and interesting. Students are expected to develop and execute a team project throughout the course. Relevant areas of e-business studied will include: electronic commerce, personalization management systems, content management systems, customer relations management systems, and community systems. This course ties together concepts from different areas of management and the economic, behavioral, functional and technical aspects of information systems. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and CIS 2050.

CIS 4790. Current Topics in Information Systems (3). On Demand.

Advanced topics in the field of information systems will be studied. These topics may include but are not limited to advanced topics in data communications and networking, distributed processing systems, 4th generation languages, CASE tools, DSS and expert systems, and/or managing information technology. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and CIS 3250.

CIS 4810. Seminar (3). On Demand.

CIS 4840. Advanced Security (3). On Demand.

This course is designed to cover the main common body of knowledge topics identified by the Certified Information Systems Security Professional (CISSP) certification program. Topics include security management practices, access control, security models and architecture, physical security, telecommunications and networking security, cryptography, disaster recovery and business continuity, law, investigation, ethics, applications and systems development, computer forensics, and operations security. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and CIS 3840.

CIS 4850. Information System Project (3). F; S.

Using a team concept, students will analyze, design, create, and implement a working information system for a public or private organization. Emphasis will be placed on project management, rapid application development, and the development of quality systems for clients. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), CIS 3250, CIS 3680, and CIS 3750. (SPEAKING: COMPUTER)

PRODUCTION/OPERATIONS MANAGEMENT (POM)

POM 1530–1549. Selected Topics (1–4). On Demand.

POM 2500. Independent Study (1–4).F;S.

POM 2530–2549. Selected Topics (1–4). On Demand.

POM 3500. Independent Study (1–4).F;S.

POM 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

POM 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

POM 3530–3549. Selected Topics (1–4).On Demand.

POM 3650. Production and Operations Management (3).F;S.

An introduction to the basic functions and concepts involved in managing the production and operations function of an organization. Topics in operations system design and analysis at the introductory level are included.

POM 4500. Independent Study (1–4).F;S.

POM 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

POM 4530–4549. Selected Topics (1–4).On Demand.

POM 4564. Total Quality Management (3).S.

Total quality management is an integrative management concept for continuously improving the total quality of goods and services through the participation of all levels and functions of the organization. TQM incorporates several dimensions: the design of products/ services to meet customers' needs, control of processes to ensure their ability to meet design requirements, and continued enhancement of quality. The course will cover topics such as quality systems, the management system for quality, quality of conformance, human resource management for quality, statistical quality control, quality assurance, measurements, and reliability. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and POM 3650 or admission to M.B.A. program.

POM 4810. Seminar (3). On Demand.

SUPPLY CHAIN MANAGEMENT (SCM)

SCM 3660. Principles of Supply Chain Management (3).F;S.

The objective of the course is to enable students to understand the concept of supply chain management and its importance in both strategic and operational planning. Topics covered include the intra-company relationships between operations and other organizational functions as well as the inter-company relationships among suppliers, products, distributors, retailers and consumers in the supply chain. The course will also discuss the problems and issues confronting supply chain managers, and the concepts, models, and techniques they use to solve those problems. Prerequisite: ECO 2100 or STT 2810 or permission of the department chair/program director.

SCM 3670. Six Sigma and Quality Management (3).F;S.

This course will cover topics on the quality system, quality conformance, the management system for quality, the Six Sigma system, organizing for Six Sigma, selecting winning Six Sigma projects, leading a Six Sigma project team, and the Six Sigma tool kit. Also, the course will discuss several methods for Six Sigma and quality management including quality assurance, measurement, reliability, process control charts, and sampling techniques. In order to understand the real life applications of quality management, various real-world cases will be discussed. Prerequisite: ECO 2100 or STT 2810 or permission of the department chair/program director.

SCM 3680. Supply Chain Technologies in a Global Environment (3).F;S.

This course is designed to give students the opportunity to learn the technologies that are commonly used in the supply chain. These enabling technologies include Extensible Markup Language (XML), Web Services, and others. The course will cover concepts and technologies used in supply chain and distribution channels, enterprise resource planning (ERP), customer relationship management (CRM), and supplier relationship management (SRM) systems. Prerequisites: CIS 1026 and CIS 2050 or equivalent or permission of the department chair/program director.

SCM 3690. Global Supply Chain and Logistics (3).On Demand.

This course incorporates principles and models of logistics in the global supply chain environment. Topics include the structure and dynamics of the global supply chain environment, global sourcing, global facility location, import-export issues, demand management, materials management, warehousing, and performance measurement. Prerequisite: ECO 2100 or STT 2810 or permission of the department chair/program director.

SCM 3900. Internship (3).SS; (6 or 9).F;S;SS.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 600 hour internship, six semester hours of credit are granted for a 400 hour internship, and three semester hours of credit are granted for a 200 hour internship. Students are encouraged to do the internship during the summer between their junior and senior years of study. Prerequisites: admission to the Walker College of Business and permission of the department chair and the internship coordinator. Graded on an S/U basis.

SCM 4870. Analytical Models for Supply Chain Management (3).On Demand.

Analytical models for supply chain management focuses on the applications and development of modeling tools for the supply chain. This course introduces students to important supply chain problems and solution methodologies including optimization, simulation, and other analytical methods. The objective of the course is to develop valuable modeling skills that students can appreciate and use effectively in their careers. Prerequisite: ECO 2100 or STT 2810 or permission of the department chair/program director. [Dual-listed with MBA 5870.] Dual-listed courses require senior standing.

Department of Economics (ECO)

John C. Whitehead, Chair

David M. Bruner

Todd L. Cherry

John W. Dawson

David L. Dickinson

Peter A. Groothuis

Onur Ince

John G. Lehman

Tanga M. McDaniel

David M. McEvoy

Michael J. McKee

Owen Ashton Morgan

Timothy J. Perri

Jayjit Roy

Mark C. Strazicich

Ji Yan

The objectives of the Department of Economics are:

1. To provide the basic institutional and theoretical knowledge required for the understanding of the functioning of the American economy and the world economy and for the understanding and analysis of current economic issues and problems
2. To develop the institutional and theoretical knowledge and analytical abilities necessary to prepare students for careers in business and government as managers and researchers on social and business problems
3. To prepare students who seek to become professional economists and/or economic educators for graduate school

The Bachelor of Science in Business Administration degree in Economics (316A/45.0601)

The program of study is available at: www.programsofstudy.appstate.edu/economics-bsba-316a-2012-2013

BSBA double major in economics and a functional area of business requires careful selection of elective courses so as to satisfy the requirements of both majors.

The Bachelor of Arts degree in Economics (107*/45.0601) with concentrations in Environmental Economics and Policy (107B), General Economics (107C), International Economics (107D), and Regional Economic Development (107E) is offered in the College of Arts and Sciences in cooperation with the Department of Economics.

Refer to the College of Arts and Sciences section of this *Undergraduate Bulletin*.

International Economics and Business Options

International economics and business options are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in Economics. The program is jointly administered by the Department of Economics and the Department of Languages, Literatures, and Cultures. Students participating in the program have an advisor in each department. The program combines a major in Economics and a major or minor in a language. Students are also advised to pursue a minor in International Business. The various options are:

- Bachelor of Arts with a double major in Economics and one language (Languages, Literatures, and Cultures with a concentration in French and Francophone Studies OR Languages, Literatures, and Cultures with a concentration in Spanish)
- Bachelor of Arts in Economics with a minor in French and Francophone Studies, German or Spanish
- Bachelor of Science in Business Administration with a major in Economics and a minor in French and Francophone Studies, Spanish or German.

Under all three options, the student is expected to demonstrate proficiency in reading and speaking the language selected. At least 15 hours of courses in the language, civilization and culture of the chosen country or area are recommended at the 2000 level or above. Also students are expected to participate, if possible, in any one or more of the following:

1. Pursue a minor in International Business (15 semester hours)
2. Complete a semester or summer session of business study abroad in the country of their choice
3. Complete an internship abroad (usually 6 semester hours)

For further information, students should consult both the chair of the Department of Economics and the chair of the Department of Languages, Literatures, and Cultures.

Undergraduate Minor in Economics (316/45.0601) (for non-business majors only)

A minor in Economics consists of 15 semester hours.

The program of study is available at: www.programsofstudy.appstate.edu/economics-minor-316-2012-2013

Courses of Instruction in Economics (ECO)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

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Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

ECONOMICS (ECO)**ECO 1010. Survey of Current Economic Issues (3).F;S.**

Application of basic economic concepts in the analysis of current issues such as: unemployment, inflation, energy, pollution, poverty, government regulation, etc. Prerequisite: none. (CORE: SOCIAL SCIENCES)

ECO 1530–1549. Selected Topics (1–4). On Demand.**ECO 2030. Principles of Economics—Price Theory (3).F;S.**

GEN ED: Historical and Social Perspective (Themes: "This American Life" and "Capitalism and Its Critics")

A brief introduction to the study of economics followed by an in-depth analysis of microeconomics, including: the price mechanism and supply and demand analysis; consumer choice; cost and revenue analysis of the firm; market structures; factor markets and income distribution; market failure and the role of government; and current economic problems such as pollution, poverty and discrimination. (CORE: SOCIAL SCIENCES)

ECO 2040. Principles of Economics—Macro (3).F;S.

An in-depth analysis of macroeconomics including: aggregate economic measures; aggregate supply and demand analysis; economic fluctuations and growth; money, banking and credit; stabilization policy; problems such as unemployment, inflation and budget and trade deficits; and international trade and finance. Prerequisite: ECO 2030. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ECO 2100. Business and Economic Statistics I (3).F;S.

GEN ED: Quantitative Literacy

A study of statistical tools used to analyze business and economic problems. The major subject matter includes descriptive statistics, the concepts of probability, confidence intervals and hypothetical testing, and statistical comparisons of production and marketing methods. Prerequisite: MAT 1030 or MAT 1020. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ECO 2200. Business and Economic Statistics II (3).F;S.

Applications of statistical tools to a variety of business and economic situations. These tools include survey sampling methods, hypothesis testing using analysis of variance, regression and time-series analysis, and non-parametric statistics. Computer applications using current industry-standard statistical software programs are emphasized. Writing statistical reports is also emphasized. Prerequisites: ECO 2030 and ECO 2100. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ECO 2500. Independent Study (1–4).F;S.**ECO 2530–2549. Selected Topics (1–4). On Demand.**

ECO 2620. Environmental and Resource Economics (3).F.

GEN ED: Local to Global Perspective (Theme: "Global Resources")

The course explores the efficient allocation of environmental and natural resources and examines the continuing conflict between economic activity and environmental quality and the conservation of natural resources. The course applies economic theory to local, regional, national, and international environmental issues.

ECO 3010. Intermediate Price Theory (3).F;S.

An intermediate course in economic theory with emphasis on the theory of consumer behavior, price theory and resource allocation. Prerequisites: ECO 2030 and ECO 2040.

ECO 3020. Intermediate Macroeconomic Theory (3).F;S.

An intermediate course in economic theory with emphasis on the analysis of the determinants of the nation's income, output, employment, and general price level. Prerequisites: ECO 2030 and ECO 2040.

ECO 3070. Money and Banking (3).S.

An institutional and theoretical study of the structure and functioning of the central and commercial banking systems in the United States, money and monetary theory, the money and capital markets and financial intermediaries, and monetary policy. Prerequisites: ECO 2030 and ECO 2040.

ECO 3210. Economics of Sports (3).F.

Application of the techniques of microeconomic theory to the sports industry. These employ the tools of three core microeconomic fields - industrial organization, public finance, and labor economics - to the examination of professional and college sports. Topics studied include, but are not limited to, the prevalence of monopoly power in the sports industry, financing of stadiums and teams, growth of union power, salary determination, and the incidence of racial discrimination. Prerequisite: ECO 2030.

ECO 3410. International Economics (3).F;S.

A survey of the theory, development, and practice of the international trade and payments system. Special attention is given to the basic concepts and different mechanisms which have been and are used in international economic affairs, as well as to governmental policies and domestic and international institutions regulating them. Prerequisites: ECO 2030 and ECO 2040. (WRITING; MULTICULTURAL)

ECO 3430. Economic Growth and Development (3).F.

The course explores forces contributing to or retarding economic progress in developing countries, and it also focuses on the central questions of economic growth, including sources of income differences across countries, the causes of long-run growth, the linkages between trade and growth, and the process of economic development, including the role of institutions. Prerequisites: ECO 2030 and ECO 2040.

ECO 3500. Independent Study (1-4).F;S.

ECO 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

ECO 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

ECO 3530-3549. Selected Topics (1-4). On Demand.

Topics covered have ranged from mathematical economics to economics of the law. Prerequisite: permission of the instructor.

ECO 3550. Public Finance and Taxation (3). On Demand.

Economics analysis of government revenues and expenditures, impact of the government budget, shifting and incidence of taxation, public debt, fiscal policies. Prerequisites: ECO 2030 and ECO 2040.

ECO 3551. American Economic History (3).F.

Evolution of the American economy from colonial times through World War II. Emphasis is upon (1) the integration of African European and Native American economic activities into an interdependent system, (2) the spatial integration of diverse geographic regions into an integrated national economy, (3) the transition from a predominantly rural and agricultural economy into a mainly urban, industrial and commercial economy, (4) the Great Depression and the growth of government intervention in economic activity, (5)

the changing balance between domestic and foreign commerce and (6) the role of war in American economic development. The methods of economic geography are combined with those of economic analysis to understand American history. Prerequisite: ECO 1010 or ECO 2030. (SPEAKING; MULTI-CULTURAL; CROSS-DISCIPLINARY)

ECO 3610. Economics of Health Care (3).S.

Economic theory is applied to the health care industry. Included is an overall perspective of the health care industry, identification of the factors influencing the demand for and the supply of health care; identification of some costs and benefits of health programs, hospital organization and efficiency, and a consideration of alternative methods of financing health care. Prerequisite: ECO 2030. (WRITING)

ECO 3650. Industrial Organization and Public Policy Toward Business (3). On Demand.

A study of the structure of firms and markets and of their interactions. It first considers the basics of competition, monopoly, oligopoly, and monopolistic competition. It then considers the "new industrial organization" which includes topics such as strategic behavior, price discrimination, nonlinear pricing, vertical integration and vertical restrictions, information, advertising, and government policies and their effects. Prerequisites: ECO 2030, ECO 2040 and MAT 1030 or equivalent. (WRITING)

ECO 3680. Experimental and Behavioral Economics (3).S.

An experimental science approach to studying human behavior. Controlled experiments are used to explore how individuals and groups behave in a variety of decision environments. Psychological influences on behavior are also addressed. Topics include, but are not limited to: ethical treatment of human subjects, market experiments, individual decision-making, risk and choice, behavioral game theory, and neuroeconomics. Prerequisite: ECO 2030.

ECO 3710. Managerial Economics (3).S.

Use of statistical and mathematical concepts and techniques in solving problems in economics. Microeconomic theory is reviewed and optimizing techniques are used in decision making. Prerequisites: ECO 2030, ECO 2040 and ECO 2100 or equivalent.

ECO 3720. Economics of Personnel (3).S.

Application of economic analysis to personnel issues. Topics include hiring, training, the method of pay, and motivation and evaluation of workers. Prerequisites: ECO 2030 and ECO 2040. (WRITING)

ECO 3730. Econometrics (3).F.

The course studies the use of statistical methods to estimate and test models in economics, business, and the social sciences. The focus of the course is on multiple regression models and their estimation with computer software. Additional topics covered may include panel data, limited dependent variables, instrumental variables, and time series models. Prerequisites: ECO 2030, ECO 2040, and ECO 2200, or permission of the instructor. (COMPUTER)

ECO 3800. Urban and Regional Economics (3). On Demand.

An examination of the institutional background necessary for urban and regional growth. An introduction to theoretical models of growth. Prerequisites: ECO 2030 and ECO 2040. (CROSS-DISCIPLINARY)

ECO 3900. Internship (6 or 9).F;S.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: admission to the Walker College of Business or the College of Arts and Sciences, and permission of the departmental chair and the internship coordinator. Graded on an S/U basis.

ECO 4500. Independent Study (1–4).F;S.

ECO 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

ECO 4530–4549. Selected Topics (1–4).On Demand.

ECO 4621. Advanced Environmental Economics (3).S.

Analysis of the interrelationships among economic activity, government policies, and the environment; the benefits and costs of economic growth; the economics of environmental quality; the social costs of pollution; and the intertemporal allocation of natural resources. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ECO 2030 or ECO 2620. [Dual-listed with ECO 5621.] Dual-listed courses require senior standing.

ECO 4630. History of Economic Thought (3).S.

Origin, development, and analysis of the major trends, contributions, and conflicts in the development of modern economic philosophy, analysis, and theory. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), ECO 2030 and ECO 2040. (WRITING)

ECO 4640. International Economic Policy (3).S.

This course examines several issues pertaining to trade between countries. Topics covered may include tariffs and non-tariff barriers, regional trading blocs, foreign direct investment, trade and environment issues, balance of payments, and exchange rates. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ECO 3410 or permission of the instructor. (WRITING; SPEAKING) [Dual-listed with ECO 5640.] Dual-listed courses require senior standing.

ECO 4660. Benefit-Cost Analysis (3).F.

The study of the evaluation of competing public policy alternatives. The purpose of benefit-cost analysis is to inform government decision-making and facilitate the more efficient allocation of scarce resources. This course introduces the basic theory and principles of benefit-cost analysis and examines applications of the methodology. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ECO 2030. [Dual-listed with ECO 5660.] Dual-listed courses require senior standing.

ECO 4740. Forecasting and Time Series Models (3).On Demand.

An examination of time series models for purposes of forecasting and performing time series regressions in economics, business, and the social sciences. Topics covered may include ARIMA, VAR, Granger causality, unit roots, spurious regressions, ARCH, and GARCH. Computer software will be utilized in applications. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and ECO 2200 or permission of the instructor. (WRITING; NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with ECO 5740.] Dual-listed courses require senior standing.

ECO 4810. Seminar in Economics (3).F;S.

GEN ED: Capstone Experience

In-depth research and analysis of selected economic issues and problems. Required of all seniors majoring in economics or banking. Students participate in discussions of significant economic problems, theories and policies. Preparation of empirical papers that apply theoretical models and quantitative methods is required. These papers will be presented orally and in writing to the seminar participants. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), ECO 3010, ECO 3020, and senior standing. (WRITING; SPEAKING)

Department of Finance, Banking and Insurance (FIN)

David C. Marlett, Chair

Bryan S. Bouboulis

Robert L. Cherry, Jr.

Don R. Cox

Harry M. Davis

Leigh Dunston

Karen Epermanis

John P. Geary

Delbert C. Goff

Brian R. Hart

Jeff Hobbs

Jarrod Johnston

Terrill R. Keasler

Rick E. Mattar

Chris R. McNeil

Heather Hulburt Norris

Charles A. Oswald

Ivan C. Roten

David D. Wood

Todd L. Wood

The primary objective of the Department of Finance, Banking and Insurance is to develop leaders for the business, government, and educational communities and to assist them in making contributions to society. This objective is obtained in two ways. First, students are provided with the theoretical concepts needed to understand and dissect business problems. Second, the faculty provide students with practical applications needed for financial analysis in their given areas of study.

In addition to practical applications in the classroom, students are encouraged to take advantage of the internship program. This program allows students to gain valuable practical business experience while still in college.

The Department of Finance, Banking and Insurance houses the North Carolina Bankers Association Professorship, the Alfred T. Adams Distinguished Chair of Banking, the Richard S. Brantley Risk and Insurance Center, the Joseph F. Freeman Distinguished Professorship of Risk Management and Insurance, the L.M. (Bud) Baker, Jr. Professorship, and the Independent Insurance Agents of North Carolina (IIANC) Distinguished Professorship.

The Bachelor of Science in Business Administration degree in Finance and Banking (326A/52.0801)

The program of study is available at: www.programsofstudy.appstate.edu/finance-and-banking-bsba-326a-2012-2013

The Bachelor of Science in Business Administration degree in Risk Management and Insurance (380A/52.1701)

The program of study is available at: www.programsofstudy.appstate.edu/risk-management-and-insurance-bsba-380a-2012-2013

Risk management and insurance majors are advised to use their elective hours in areas such as accounting, economics, finance, management, mathematical sciences, law, real estate and additional risk and insurance courses. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

The Richard S. Brantley Risk and Insurance Center, housed in the Department of Finance, Banking and Insurance, has the mission of developing the strongest possible degree program in risk management and insurance. The Brantley Center supports the Risk Management and Insurance major by sponsoring the Gamma Iota Sigma insurance fraternity, scholarships, internships, executive-in-residence appointments, and the placement of graduates in the insurance industry.

Certificate Program in Financial Planning (320A/52.0801)

The undergraduate certificate program in Financial Planning (18 semester hours) will qualify the students to apply for the Certified Financial Planner (CFP copyright) certification exam.

The program of study is available at: www.programsofstudy.appstate.edu/financial-planning-certificate-320a-2012-2013

Courses of Instruction in Finance, Banking And Insurance (FIN) and Law (LAW)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

FINANCE, BANKING AND INSURANCE (FIN)

FIN 1530–1549. Selected Topics (1–4). On Demand.

FIN 2500. Independent Study (1–4).F;S.

FIN 2530–2549. Selected Topics (1–4). On Demand.

FIN 2860. Personal Finance (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Capitalism and Its Critics")

A study of the key concepts, tools, and techniques of personal financial management. Focus is placed on the financial statements of the individual. The balance sheet model includes a discussion of personal assets - both financial and non- financial, personal liabilities including all types of loans, and personal net worth. The implications of the current financial environment (i.e., changing tax laws, savings instruments, interest rates, etc.) is also considered from the standpoint of the individual.

FIN 3010. Survey of Finance (3).F;S. **This course is not open to business majors for credit.**

An introduction to the field of finance in the private sector. The student is introduced to financial management in the business firm to the principles of investment and valuation, and to financial markets and prices.

FIN 3071. Principles of Risk Management and Insurance (3).F;S.

An introductory study of the risk management process and the importance of insurance as a method of handling risk. This course is designed to generate an awareness of the nature of risk, its effects on individual and business decisions, and the methods available for treating risk. Course content includes property insurance, auto insurance, life and health insurance, workers compensation and employee benefits. Relationships between risk management and other functional areas of business are also considered.

FIN 3072. Personal Insurance (3).F;S.

Provides a comprehensive examination of the personal risk management and financial planning uses of personal property and liability insurance, and life and health insurance. Discussion includes homeowners policies and other residential insurance coverages, small business needs for property and liability insurance, life insurance, and health insurance. Also considered are retirement planning, estate planning, and business continuation planning. Prerequisite: FIN 3071. (WRITING)

FIN 3073. Commercial Insurance (3).F;S.

Provides a comprehensive examination of commercial property and liability insurance including commercial property and commercial liability risk management; the legal environment of property and liability insurance; and property and liability insurance function, practices and issues. Prerequisite: FIN 3071.

FIN 3075. International Insurance Markets (3).S.

This course is designed to expose students to the placement of insurance on an international level. Students will travel to London, which is the home to many of the world's leading insurers and reinsurers. The 3-hour course will be offered during the spring semester and students will travel to London over spring break. The course involves an analysis of the mechanisms employed to transfer risk from main street USA exposures to ultimate risk bearers around the world. Students will also learn about the regulatory environments involved in the process. While in London, students will meet with Lloyds of London brokers and underwriters, spend a day on the underwriting floor at Lloyds, learn about wholesale and reinsurance brokering, and attend short seminars at various insurance intermediaries. Students will also have a short time to visit historic and cultural sites during the week. Prerequisite: FIN 3071.

FIN 3350. International Business Transactions (3).F;S.

The mechanics of international trade involving private and public law are the essentials for study. Emphasis is on providing the exporter/importer with legal knowledge to facilitate international trade and its related activities. Basic international agreements for trade will be examined, including GATT and its implications for U.S. importers under American law. Legal problems of multinational corporations, technology transfer, and business ethics are also studied. Prerequisite: LAW 2150 or permission of the instructor.

FIN 3500. Independent Study (1–4).F;S.

FIN 3510. Junior Honors Thesis (1-3). On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

FIN 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

FIN 3530–3549. Selected Topics (1–4). On Demand.

FIN 3680. Introduction to Finance (3).F;S.

An introduction to the field of finance in the private sector. The student is introduced to financial management in the business firm to the principles of investment and valuation, and to financial markets and prices. Prerequisites: ACC 2100, and MAT 1030 or MAT 1110.

FIN 3690. Financial Management (3).F;S.

Study of financial functions of a business enterprise conducted from the standpoint of the financial manager. Emphasis on analysis, planning, and control; working capital management; capital budgeting; long-term financing; financial structure and valuation; and required return. Prerequisite: FIN 3680.

FIN 3780. Estate Planning (3).F.

This course covers the basic concepts and constraints of estate and gift tax planning as the primary method of orderly and intentional wealth transfer. Students will be exposed to the major strategies employed by practitioners when developing estate plans. Topics covered include wills, trusts, estates, risk management, insurance, retirement planning, and taxation. Prerequisites: FIN 3071 and FIN 3680.

FIN 3790. Banking and Financial Markets (3).F;S.

A study of the theory and practice of the flow of funds from savers to borrowers through the financial markets. It includes the study of banks and other financial institutions through which funds flow, and of the financial instruments such as stocks, bonds, T-bills, etc. used in the transfer of funds from savers to borrowers. The focus is on the supply and demand for short-term and long-term funds in the financial markets, the resulting yields, and the overall effects of financial market conditions on the functioning of the economy. Prerequisite: FIN 3680. (WRITING)

FIN 3850. Real Estate Principles and Practices (3).F;S.

A comprehensive introduction to real estate, with emphasis on finance, investment, law, appraisal, brokerage, and property management applications.

FIN 3880. Retirement and Employee Benefit Planning (3).F.

This course covers the concepts involved in developing retirement and employee benefit plans from both the employer and employee perspectives. Participants will study the legislation that impacts plan design and the tax advantages and disadvantages of various qualified and non-qualified plans including IRAs and pension and profit sharing plans. Federal Social Security, Medicare, and business applications will also be addressed. Prerequisite: FIN 3071. Corequisite: FIN 3890.

FIN 3890. Survey of Investments (3).F;S.

A survey of investment instruments and investment goals. The course provides an overview of basic techniques used to analyze, evaluate, and manage investments. Investment instruments examined include money market instruments, common stocks, bonds, options, futures, and investment companies. Prerequisite: FIN 3680. (SPEAKING)

FIN 3900. Internship (6-9).F;S.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship. Six semester hours are granted for a 10-week internship which is generally during the summer only. Prerequisite: admission to the Walker College of Business and permission of the departmental chair. Graded on an S/U basis.

FIN 4500. Independent Study (1–4).F;S.

FIN 4510. Senior Honors Thesis (1-3). On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

FIN 4530–4549. Selected Topics (1–4). On Demand.

FIN 4570. Risk Management (3).F;S.

Study of risk recognition, risk control, and risk financing techniques used to achieve basic organizational goals such as profit maximization, earnings stability, and growth. Case studies are used to provide insight to the risk management process. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and FIN 3071. Prerequisite or corequisite: FIN 3073. (SPEAKING)

FIN 4580. Financial Planning (3).S.

This course provides a comprehensive examination of the financial planning process that is necessary to reach individuals’ goals relating to retirement planning, college planning and estate planning. Students will be given an opportunity to explore how insurance products and investments are utilized to meet long-term goals. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), FIN 3780, and FIN 3880.

FIN 4610. Commercial Bank Management (3).F;S.

A study of the management decisions needed in order to successfully operate a commercial bank as a part of the financial services industry. The competitive structure of the industry and problems of banks and other financial institutions are considered. Emphasis is given to asset/liability management. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), FIN 3690, and either FIN 3790 or ECO 3070.

FIN 4620. Investment Management I (3).F.

An introduction to security analysis and investment management. Topics covered include using investment information resources, evaluation of overall economic and market conditions, and stock selection and evaluation methods. Particular emphasis is placed on the practical application of stock valuation techniques and other security analysis tools. Detailed stock analysis projects are completed and presented. Students receive hands-on investment experience through the management of the Elbert V. Bowden Student Managed Investment Fund. Students taking this course MUST also take FIN 4622 (Investment Management II) and will not receive a grade in this course until FIN 4622 is completed. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and permission of the instructor. Corequisites: FIN 3690 and FIN 3890.

FIN 4622. Investment Management II (3).S.

A continuation of the study of security analysis and investment management. More advanced topics and techniques are covered, including portfolio theory, asset allocation, market efficiency, and portfolio risk/return measurement and evaluation. Additional stock analysis projects are completed and presented. An annual report for the Elbert V. Bowden Student Managed Investment Fund must be prepared and presented. Students receive hands-on investment experience through the management of the Student Managed Investment Fund. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and FIN 4620.

FIN 4660. Financial Decision Making and Statement Analysis (3).F;S.

A corporate finance course that focuses on applied financial analysis and financial decision making. Emphasis is placed on financial statement analysis and forecasting. Course coverage also includes analysis of risk and return and working capital management. Computer applications are required. Students are required to make presentations to the class. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and FIN 3690. Corequisite: FIN 3890.

FIN 4710. Issues in Bank Management (3). On Demand.

This course focuses on the real world, day-to-day operation of commercial banks and the rapidly changing legal, regulatory, and competitive environment in the banking/financial services industry. Important topics covered include commercial and consumer lending, trust functions and services, mergers and acquisitions, funds management and investments, international banking activities, and others. Students are required to do a research project involving interviews with bankers, and focusing on a current topic of interest to bankers. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), FIN 4610, and permission of the instructor.

FIN 4750. International Business Finance (3).F;S.

A study of international markets and the financial operations that take place in those markets. The financial aspects and operations of multinational corporations are highlighted. Key topics covered include exchange rate behavior and risk management, financing of international trade and operations, and international capital budgeting. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and FIN 3680. (MULTI-CULTURAL)

FIN 4770. Derivatives and Financial Risk Management (3).F;S.

This course provides a theoretical and practical analysis of the following derivative instruments: forwards, futures, options, options on futures, and swaps. Topics include speculative and hedging strategies, with additional emphasis placed on arbitrage pricing and the mathematics of security valuation. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and FIN 3890.

FIN 4810. Seminar (1–3). On Demand.

LAW (LAW)

LAW 2150. Legal Environment of Business (3).F;S.

An introduction to the legal environment in which business must operate. Selected areas of the law are investigated as well as the historical, political, cultural, ethical and technical context in which law exists and operates. Ethical issues are integrated throughout the course. Current legal topics that impact business are analyzed and discussed.

LAW 3910. Business Law I (3). On Demand.

A study of selected areas of the law that affect the commercial community. Includes the law of contracts, sales, commercial paper, agency and other legal topic areas. Common law concepts are investigated as well as the impact of the Uniform Commercial Code on commercial transactions. The course is designed to give students an awareness of legal problems that may exist in commercial transactions, and to develop the analytical skills necessary to recognize and seek assistance for such problems. Prerequisite: LAW 2150 or equivalent.

LAW 3930. Hospitality Law (3). On Demand.

Laws applicable to ownership and operation of hotels, restaurants and resorts. Consideration of contracts, real property, ownership forms, torts, liabilities, duties and administrative agency regulations. Prerequisites: HOS 2000.

LAW 3960. Insurance Law (3). On Demand.

A study of the legal issues that affect licensing, regulation, sales and claims in the insurance industry. Common law and statutory schemes are investigated as well as the ethical responsibility of all involved parties. This course is designed for insurance majors that seek an in-depth understanding into the legal framework of the insurance process. Prerequisite: LAW 2150.

Department of Management (MGT/HOS)

Degree Programs in Management, and Hospitality and Tourism Management

Betty S. Coffey, Chair

*Stella E. Anderson
Jacqueline Z. Bergman
Robin T. Byerly
J. Dana Clark
Richard D. Cotton
Joseph P. Daly
Heather Dixon-Fowler*

*Michael R. Evans
Jeremy B. Fox
Scott D. Hayward
Hugh D. Hindman
Dan K. Hsu
Mark O. Lewis
Martin B. Meznar*

*Richard W. Pouders
Benjamin C. Powell
Rachel S. Shinnar
Alan E. Singer
Peter D. Villanova
James W. Westerman
Brian G. Whitaker*

The objective of the Department of Management is to develop responsible and successful leaders of organizations by providing quality undergraduate and graduate education.

The Bachelor of Science in Business Administration degree in Management (355*/52.0201)

For the BSBA degree in Management, students must select one of the following concentrations:

Entrepreneurship concentration (355B)

The program of study is available at: www.programsofstudy.appstate.edu/management-bsba-entrepreneurship-355b-2012-2013

General Management concentration (355C)

The program of study is available at: www.programsofstudy.appstate.edu/management-bsba-general-management-355c-2012-2013

Human Resource Management concentration (355D)

The program of study is available at: www.programsofstudy.appstate.edu/management-bsba-human-resource-management-355d-2012-2013

Undergraduate Minor in Entrepreneurship (355/52.0201) (for non-business majors only)

Students not majoring in the Walker College of Business may earn an Entrepreneurship minor (15 semester hours).

The program of study is available at: www.programsofstudy.appstate.edu/entrepreneurship-minor-355-2012-2013

All 1000 and 2000-level courses should be taken prior to the 3000 and 4000-level courses in the minor. Some College of Business courses selected as an elective may require additional courses as prerequisites that are not required for the minor in Entrepreneurship.

Courses of Instruction in Management (MGT)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

MANAGEMENT (MGT)

MGT 1530–1549. Selected Topics (1–4).On Demand.

MGT 2500. Independent Study (1–4).F;S.

MGT 2530–2549. Selected Topics (1–4).On Demand.

MGT 3010. Survey of Management (3).F;S. This course is not open to business majors for credit.

An introduction to traditional and contemporary functions and concerns of management, including the history of management; planning, organizing, and controlling; decision-making fundamentals; information systems; motivation, communication, and leadership; international management; and social responsibilities of management.

MGT 3040. Child Labor in Global and Historical Perspectives (3).S.

GEN ED: Historical and Social Perspective (Theme: "Capitalism and Its Critics")

Child labor is a complex social and economic problem in the less-developed nations of the world today. Yet, we know of no industrially advanced nation that did not go through its own "dirty phase" of pervasive use of child labor. This course examines child labor from both historical and contemporary global perspectives.

MGT 3060. Opportunity and Entrepreneurship (3).F;S.

This course introduces students to the entrepreneurial process and its two components: opportunity recognition and opportunity exploitation. It provides training in recognizing, shaping, and presenting opportunities. It surveys knowledge from all major business disciplines that is particularly relevant to the entrepreneurial process. Students with a background in business learn how to apply their knowledge in entrepreneurial contexts. Non-business students learn business fundamentals relevant in entrepreneurial contexts and how to apply them.

MGT 3170. Fostering and Managing Creativity (3).On Demand.

Fostering and managing creativity can affect all aspects of an organization, including strategy, sustainability, and interaction with customers, suppliers and competitors. The purpose of this course is for students to learn how to develop and manage creativity in organizations. Students will have the opportunity to study the nature and significance of creativity, develop a more creative mindset, and learn about the principles, practices and tools to foster and use creativity. Prerequisite: MGT 3060 or permission of the instructor.

MGT 3190. International Entrepreneurship (3).On Demand.

A study of the complexity added when the opportunities recognized and exploited by entrepreneurs span national boundaries. Students will learn tools and concepts that are broadly applicable to identify, shape, and present entrepreneurial opportunities in different national contexts. Topics include international entrepreneurship as it relates to mode of entry, trade and the global environment, culture, legal, international financial and marketing considerations, and different business practices outside the domestic market. Prerequisite: MGT 3060 or permission of the instructor. (MULTI-CULTURAL)

MGT 3500. Independent Study (1–4).F;S.

MGT 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

MGT 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process of the university level through direct participation in the classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

MGT 3530–3549. Selected Topics (1–4).On Demand.

MGT 3620. Human Resource Management (3).F;S.

A study of basic personnel policies, practices, objectives, functions and the organization of personnel programs. Emphasis is placed on recruiting, selection, placement, training and development, employee evaluation, compensation, accident prevention, and union management relations in a modern business corporation. Prerequisite: admission to the Walker College of Business. (WRITING)

MGT 3630. Introduction to Organizational Behavior (3).F;S.

A study of individual and small group behavior in a work setting with focus on how this knowledge is reflected in current management theories. Emphasis is placed on understanding why employees behave the way they do and how to use this understanding to either

maintain or change this behavior. Management majors are encouraged to take this course before or concurrently with MGT 3620. (CROSS-DISCIPLINARY)

MGT 3650. Social Entrepreneurship (3).On Demand.

A study of the opportunities and challenges of using entrepreneurship skills to craft innovative responses to social problems. This course offers a survey of the field of social entrepreneurship, including an exploration of the players and business structures used by social entrepreneurs, and the mechanics, tensions, and realities of starting and/or managing a social enterprise. Prerequisite: MGT 3060 or permission of the instructor.

MGT 3660. Negotiation and Conflict Resolution (3).F.

A study of negotiation in a variety of settings that business and professional people are likely to encounter. Negotiation is both a science and an art. Students will have the opportunity to learn about the science of negotiation through readings, lectures, and discussions; and will practice the art of negotiation through a variety of exercises or dynamic cases. The course is designed to complement the diagnostic and technical skills that students typically learn in other courses. While managers need analytical skills to determine the optimal solutions to problems, negotiation skills are often necessary to see those solutions implemented.

MGT 3670. International Human Resource Management (3).S.

A study of human resource management with emphasis on the global economy. Topics will include human resource practices of multinational firms involved in international strategic alliances, joint ventures, and cross-border mergers and acquisitions. Attention will be given to managing expatriate assignments in terms of selection, preparation, retention, and inter-cultural adjustment. Additional topics will include managing host country nationals on their own soil and immigrant workers on U.S. domestic soil. (MULTI-CULTURAL)

MGT 3800. International Management (3).F; S.

International management studies management as practiced in different nations and cultures. The influences of differences in the political, economic, social, legal, and technological environments on the management functions (planning, organizing, motivating, and controlling) and management effectiveness are examined. The requirements and problems of adapting the American approach to management in foreign cultures, and conversely, adapting foreign approaches to American business will be basic to the course. Also included will be an investigation of management practices world-wide as well as an examination of current issues and special topics. Prerequisite: MGT 3010 or MGT 3630. (WRITING; MULTI-CULTURAL)

MGT 3900. Internship (6).SS.

A full-time work experience for ten weeks (400 hours) to provide an in-depth practical experience that is related to the student's management concentration. An internship may be completed during the summer term between the junior and senior years of study. Prerequisites: admission to the Walker College of Business and permission of the department faculty advisor and COB internship coordinator. Graded on an S/U basis.

MGT 4500. Independent Study (1–4).F; S.

MGT 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

MGT 4530–4549. Selected Topics (1–4).On Demand.

MGT 4570. Compensation (3).F.

This course presents practical tools, methods, and a systems perspective to help advance students' understanding of human resource management. The course covers compensation, benefits and related human resource functions such as performance appraisal, job analysis and selection practices. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and MGT 3620. [Dual-listed with MGT 5570.] Dual-listed courses require senior standing.

MGT 4630. Labor Relations (3).S.

A study of labor-management relations with emphasis on management's relations with organized labor. Lecture, discussion and cases are used to study the reasons employees join unions, the laws that apply, and the process of working out a labor contract after it is negotiated. Prerequisite: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only). [Dual-listed with MGT 5630.] Dual-listed courses require senior standing.

MGT 4640. Integrative Cases in Human Resource Management (3).F;S.

The course is intended as the senior level integrative course in the Human Resource Management concentration under the B.S.B.A. degree in Management. It is designed to expose those enrolled to the “big picture,” the intersection of human resource management, business policy, and competitive strategy. It is about human resource management from a strategic perspective. The goal will be to introduce young professionals to the core competency areas that will be needed to be successful managers of human capital, whether within the human resource function, some support area, or as a line manager. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and MGT 3620.

MGT 4650. Venture Creation (3).F;S.

This course focuses on opportunity exploitation in the entrepreneurial process. The emphasis in the course is on the dominant mode of opportunity exploitation which is venture creation. The course helps students develop the knowledge and skills needed to start a business that targets a new business opportunity. It is intended to be a capstone experience for students interested in entrepreneurship. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and MGT 3060.

MGT 4680. Entrepreneurship Practicum (3).On Demand.

Engaging in an entrepreneurship practicum enables students who have developed an entrepreneurial skill set to apply the skills in one of two contexts. The student may either work on an entrepreneurial project for an existing organization or start a business for which a business plan has been developed. The entrepreneurial project must be pre-approved by the instructor and supervised by the instructor. Prerequisite: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only). Prerequisite or corequisite: MGT 4650.

MGT 4700. Contemporary Issues in Management and Leadership (3).F;S.

This course is designed to explore theories and practical applications of management and leadership in organizational settings. The major emphasis is on building the managerial and leadership skills necessary to diagnose and provide remedies for organizational level problems. Subjects covered include: management, leadership, strategic vision, organizational culture and values, motivation and empowerment, teams, leading diversity, and leading organizational change. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), and MGT 3630 or MGT 3010. [Dual-listed with MGT 5700.] Dual-listed courses require senior standing.

MGT 4750. Strategic Management (3).F;S.

Integrates and draws upon knowledge gained in the core business disciplines to develop a holistic perspective of organizations competing in dynamic domestic and global environments. The course engages students in understanding how organizations identify and create new opportunities to sustain a competitive advantage. Emphasis is placed on acquiring and demonstrating analytical skills needed to implement successful strategies. Prerequisites: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only), all College of Business core courses, and final semester senior standing. (This course may not be taken on an individual study basis.) (WRITING; SPEAKING; CROSS-DISCIPLINARY)

MGT 4770. Business Ethics (3).F;S.

A study of the economic, political, social and legal environments within which business processes take place and how such environments affect the decisions that businesses and managers make. Prerequisite: a minimum grade of “C” in ENG 3100 or BE 3340 (business majors only). (SPEAKING) [Dual-listed with MGT 5770.] Dual-listed courses require senior standing.

MGT 4810. Seminar (1–3). On Demand.

Hospitality and Tourism Management (HOS)

J. Dana Clark, Director

The Bachelor of Science in Business Administration degree in Hospitality and Tourism Management (371A/52.0901)

The program of study is available at: www.programsofstudy.appstate.edu/hospitality-and-tourism-management-bsba-371a-2012-2013

Courses of Instruction in Hospitality Management (HOS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

HOSPITALITY MANAGEMENT (HOS)

HOS 1530-1549. Selected Topics (1–4).On Demand.

HOS 2000. Survey of the Hospitality and Tourism Industry (3).F;S.

A survey of the history, trends, organizational structure, and economic impact of the hospitality and tourism industry on the national economy. Some study of the problems originating in the operation and management of various segments of the hospitality industry will be introduced.

HOS 2530–2549. Selected Topics (1–4).On Demand.

HOS 3500. Independent Study (1–3).F;S.

HOS 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

HOS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

HOS 3530-3549. Selected Topics (1–4).On Demand.

HOS 3700. Hospitality Management Operations I (3).F;S.

This course involves the concepts and applications of management in food and beverage operations in various types of hospitality firms. Topics such as menu development, beverage management, catering, service, sanitation, foodservice design, and cost controls will be presented. Management approaches will be developed to provide quality products and services. Prerequisite: HOS 2000.

HOS 3800. Hospitality Management Operations II (3).F;S.

This course is designed to provide the student with knowledge of lodging operations, which include hotels, cruise ships, and resorts. Lodging operations will be analyzed from a systems perspective, with particular focus on operational standards, and technology.

Case studies will be presented to illustrate issues and problems of operations and functional areas of properties such as marketing, rooms division, engineering, accounting, computer applications, and guest security. Prerequisite: HOS 2000. (WRITING)

HOS 3900. Hospitality Management Internship (6).SS.

A structured learning experience in a service corporation, designed to prepare the student intern for a professional management career. Ten weeks full-time employment (400 hours) are required. No additional courses may be scheduled while completing an internship. Should be taken during the summer term between the junior and senior years and not during the final semester term of study. Students desiring to take internships must obtain approval in advance from the faculty advisor. A research or topical paper related to the company will be required. Each student will be evaluated on her/his completion of goals previously set by the student, faculty advisor, and company field supervisor. Prerequisites: HOS 2000 and permission of faculty advisors, and a minimum of 9 hours completed in the major. Graded on an S/U basis.

HOS 4040. Destination Management (3).S.

The course will introduce the various issues associated with the management of a convention visitors bureau (CVB). The course will analyze the mission, structure, and business activities of organizations that develop and promote a complex tourism destination. This includes the management functions of membership services, visitor services, financial and marketing concerns, research activities, and the strategic planning and evaluation of these efforts. Topics covered will include developing the following consumer segments; meetings/conventions, pleasure/tours, and festivals/special events. Students will be required to give two class presentations during the semester on the above topics. Prerequisite: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only).

HOS 4050. Meeting & Convention Management (3).F.

A course dealing with the many issues impacting the management of large convention and exposition centers. The course is taught from an organizational marketing base. Topics include meeting site selection, program planning and budgeting, legal issues and insurance problems, housing, food and beverage arrangements, transportation, exposition management, and audio-visual services. Prerequisite: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only). (SPEAKING)

HOS 4500. Independent Study (1-4).F;S.

HOS 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

HOS 4530-4549. Selected Topics (1-4).On Demand.

Department of Marketing (MKT)

Unal O. Boya, Chair

*Pia A. Albinsson
Bidisha Burman
Steve W. Clopton
Neel Das*

*Michael J. Dotson
Bonnie S. Guy
Jennifer Nevins Henson
Eva M. Hyatt*

*Barbara R. Michel
James E. Stoddard*

The objective of the Department of Marketing is to develop responsible and successful business leaders by providing undergraduate and graduate education in the field of marketing.

The Bachelor of Science in Business Administration degree in Marketing (352A/52.1401)

The program of study is available at: www.programsofstudy.appstate.edu/marketing-bsba-352a-2012-2013

Undergraduate Minor in Marketing (352/52.1401) (for non-business majors only)

A minor in Marketing for non-business majors may be obtained by completing 18 semester hours of requirements.

The program of study is available at: www.programsofstudy.appstate.edu/marketing-minor-352-2012-2013

Courses of Instruction in Marketing (MKT)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SPECIAL NOTE ABOUT ENROLLMENT IN UPPER LEVEL BUSINESS COURSES: Enrollment in 3000/4000 level courses in the Walker College of Business is limited to business majors admitted to the College of Business. Other students, including business majors not yet admitted to the College of Business, may take a maximum of five business courses at the 3000/4000 level (unless more are required by a non-business major, a required concentration, or a required minor).

Prerequisites for 3000 level and 4000 level business courses, in addition to course specific prerequisites, are as follows: 1) minimum cumulative GPA of 2.0; 2) 60 earned hours for 3000 level business courses with the exception of FIN 3680, MGT 3630, MKT 3050, and POM 3650, which require only 57 hours; and 3) 90 earned hours and a minimum grade of "C" in ENG 3100 or BE 3340 for 4000 level business courses.

Business majors are encouraged to complete all admission requirements by the beginning of the junior year. Students who are not admitted to the College of Business will not be allowed to early register for more than five 3000/4000 level business classes, even if they anticipate they will be admitted to the College of Business by the beginning of the next semester.

Non business majors must get a permit from the College of Business Undergraduate Advising Office to register for any required 3000/4000 level business course in excess of the five allowed.

MARKETING (MKT)

MKT 1530–1549. Selected Topics (1–4).On Demand.

MKT 2500. Independent Study (1–4).F;S.

MKT 2530–2549. Selected Topics (1–4).On Demand.

MKT 3050. Principles of Marketing (3).F;S.

An introductory study of the marketing process in advanced market economies. Consideration of psychological theories and determinants of buyer behavior. A background in the elements of the marketing mix; the product distribution structure, the price system, and promotional activities. Survey of marketing in special fields. Planning and evaluating the marketing effort. Using computers to analyze marketing data; quantitative aspects of the marketing function. Prerequisite: ECO 2030.

MKT 3052. Professional Selling (3).F;S.

Focus is on the development of selling skills, from prospecting for new customers to making a sales presentation, closing the sale and following up, as well as the development of an understanding of the economic and psychological buying motivations affecting the sales of industrial and consumer goods and services. The course will also include the application of a sales force automation software to facilitate the selling process, and to increase retention of existing customers. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0). (SPEAKING)

MKT 3210. Retail Management (3).F;S.On Demand.

Focus is on operational problems, retail store organization, location analysis, buying, selling, sales promotion, service, and merchandise handling. Case analysis of managerial problems in retailing establishments. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

MKT 3220. Sales Management (3).F;S.

Management of sales force. Quantitative techniques and behavioral research applied to planning, organizing, directing, and controlling field sales effort. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0). (SPEAKING)

MKT 3230. Business-to-Business Marketing (3).F;S.On Demand.

A study of the distinguishing features of the business marketing environment including the major types of customers, the nature of the procurement function, and forces that drive buying decisions in organizations. Other topics include customer relationship management strategies for business markets, E-commerce strategies for business markets, supply chain management and global business marketing strategies. In addition, techniques for assessing business market opportunities, market segmentation, demand analysis and sales forecasting will be reviewed. Also included will be the planning, implementation and control of the business marketing function. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

MKT 3240. Integrated Marketing Communications (3).F;S.

Intensive investigation of the field of advertising to include a review of the history and the economics of advertising, research, copy, layout, production, budgeting, and advertising organization. Theory and application are stressed. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0). (WRITING)

MKT 3260. Managing Distribution Channels (3).F;S.

The study of distribution as a strategic tool in the marketing mix. The course focuses on the relationship dimensions of channel structure, evaluation and selection of channel participants, behavioral processes, design challenges, functions of leadership, formulation of channel roles, marketing logistics and electronic channels. Prerequisite: MKT 3050 with a minimum grade of "C" (2.0). (WRITING)

MKT 3500. Independent Study (1–4).F;S.

MKT 3510. Junior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

MKT 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

MKT 3530–3549. Selected Topics (1–4).On Demand.

Prerequisite: MKT 3050 with a minimum grade of "C" (2.0).

MKT 3900. Internship (6).SS.

A full-time work experience in business normally done in the summer. Six semester hours are granted. Prerequisite: admission to a degree granting college; MKT 3050 with a minimum grade of "C" (2.0), and permission of the departmental chair and the internship coordinator. Graded on an S/U basis.

MKT 4100. Marketing Management (3).F;S.On Demand.

An integrated course in marketing, systematically oriented with emphasis on the marketing mix, the formulation of competitive strategies, and special attention to market analysis, marketing information, and sales forecasting. Case analysis is stressed. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and MKT 3050 with a minimum grade of "C" (2.0).

MKT 4500. Independent Study (1–4).F;S.

MKT 4510. Senior Honors Thesis (1-3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the student's junior and senior years and includes a formal presentation to the college faculty. May be repeated for a total credit of three semester hours.

MKT 4530–4549. Selected Topics (1–4).On Demand.

MKT 4550. International Marketing (3).F;S.

An analysis of cultural, legal, political, and economic factors affecting marketing in world markets. Emphasis is placed upon the differences in life styles, beliefs, attitudes, behaviors, and their influence upon the marketing decisions of the foreign firm. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and MKT 3050 with a minimum grade of "C" (2.0). (MULTI-CULTURAL)

MKT 4610. Consumer Behavior (3).F;S.

An examination of the psychological, sociological, and economic theories of buyer behavior. This is followed by analysis of the major current and classical empirical research studies designed to test the different theories of buyer behavior. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), and MKT 3050 with a minimum grade of "C" (2.0). (MULTI-CULTURAL; CROSS-DISCIPLINARY)

MKT 4620. Marketing Research (3).F;S.

Techniques involved in the specification, collection, analysis, and reporting of marketing information. The analysis will include experimental design, analysis of variance, and other univariate and multivariate analyses. Prerequisites: a minimum grade of "C" in ENG 3100 or BE 3340 (business majors only), MKT 3050 with a minimum grade of "C" (2.0), ECO 2200, and senior standing. (WRITING; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

MKT 4810. Seminar (1–3).On Demand.

The Reich College of Education

The Reich College of Education

Charles R. Duke, Dean

David A. Wiley, Associate Dean

Robin D. Groce, Assistant Dean

The Reich College of Education exists to prepare its students (traditional and non-traditional) to assume positions as educational and human services personnel in both school and non-school settings. The various professions represented include teachers, school administrators and other human service personnel. At the core of their preparation is a strong practitioner orientation that complements their theoretical and research based learning experiences.

To accomplish its mission, the College offers a broad range of comprehensive degree programs at the Baccalaureate, Masters, Specialist, and Doctoral levels, as well as programs leading to particular licenses. The Reich College of Education seeks to provide a well-balanced program of classroom and clinical experiences.

The Reich College of Education seeks to maintain a cooperative, forward-thinking posture, with emphasis on:

1. Providing programs of rigor and excellence that challenge its faculty and students to do their best
2. Creating bold initiatives that recognize emerging societal needs with new programs, teaching strategies, and technologies that will keep it on the frontiers of knowledge
3. Supporting the integration of multi-cultural and global orientations in all program areas
4. Seeking to further define and deliver a comprehensive body of knowledge suitable for each of its majors
5. Engaging in an active program of exchange and interchange with its varied publics
6. Continuing to develop a faculty that seeks excellence in its teaching, breadth in its service, and creativity in its scholarship and research

The Reich College of Education has primary responsibility for the preparation of child development B-K, elementary, middle grades and secondary teachers, as well as teachers in special subject areas, library media coordinators, reading teachers, special educators, supervisors, instructional technology specialists, counselors, teachers of higher education, administrators for the public schools and institutions of higher education, child care professionals, professionals in apparel design and merchandising, and related human development specialists for community agencies. One goal of the college is to provide an efficient delivery system of preservice and inservice preparation to individuals pursuing a career in any of the above listed areas. Additionally, the college houses a national resource center for developmental educators.

Departments

The Reich College of Education consists of the following departments:

Curriculum and Instruction

Family and Consumer Sciences

Human Development and Psychological Counseling

Leadership and Educational Studies

Reading Education and Special Education

Mathematics and Science Education Center

Phillip E. Johnson, Director

www.msec.appstate.edu

The Appalachian Mathematics and Science Education Center is one of several centers in the University of North Carolina System. The mission of the center is to improve the quality and quantity of mathematics and science teachers in the state. Consequently, the ASU Center offers courses, workshops, institutes, and conferences, both on campus and at various sites throughout the region for teachers and for students preparing to teach.

The Center, located in the College of Education Building, houses a vast array of science and mathematics materials which can be checked out and used not only by Appalachian faculty and area public school teachers, but by students as well. Science and mathematics manipulative kits, journals, video tapes, DVDs, textbooks, and models are available for use by students enrolled in methods classes or who are student teaching. Appalachian faculty and students are welcome to come in and browse through the Center's materials.

National Center for Developmental Education

Hunter Reed Boylan, Director

www.ncde.appstate.edu

The Center is the nation's primary resource for information, training and research in the field of developmental education. Developmental education is concerned with the learning and human development needs of academically underprepared students attending colleges and universities. Each year hundreds of postsecondary educators take advantage of Center services.

The Reich College of Education

The National Center for Developmental Education, located on the third floor of Edwin Duncan Hall, offers a variety of resources and services to college and university personnel throughout the United States who are concerned with the educational needs of academically underprepared college students.

The Center resources include a specialized library and a computerized network linking persons from across the nation knowledgeable in the ways of teaching, counseling and motivating underprepared students. The Center offers conferences, workshops and seminars for practitioners in the field; conducts research, and works closely with the Department of Leadership and Educational Studies in the implementation of the graduate programs in developmental education. The Center also sponsors the Kellogg Institute for the Training and Certification of Developmental Educators, which provides advanced training to selected professionals from across the United States. In addition, the Center publishes the leading periodical in the field, the *Journal of Developmental Education*, as well as a bi-monthly newsletter, *Research in Developmental Education*. The Center also provides consultation and technical assistance to colleges and universities seeking to improve their programs and services to students with academic deficiencies.

North Carolina Teaching Fellows

Jan Stanley, Director

The North Carolina Teaching Fellows Program supports students who have been accepted into the program with a commitment to become North Carolina teachers and, in return, to teach four years in North Carolina's public schools following graduation from college. The program develops a sense of camaraderie among students seeking a career in teaching in North Carolina's public schools.

Appalachian's Teaching Fellows participate in special classes, seminars, field trips, and service activities that improve their readiness to teach. Participants experience schools, teachers, and learning in an intellectually invigorating environment and develop leadership skills that will enhance their career.

Degrees

The Reich College of Education offers the Bachelor of Science degree leading to teacher licensure in the fields of child development: birth through kindergarten; elementary education (K-6); middle grades education (6-9) with concentrations in language arts, mathematics, science, and social studies; K-12 licensure in health education, secondary education; special education with concentrations in adapted curriculum K-12, and general curriculum K-12; 9-12 licensure in business education with concentrations in business education, or business and marketing education; and family and consumer sciences, secondary education. The Bachelor of Music degree with K-12 teacher licensure is available in music education. The Bachelor of Science degree with teacher licensure (9-12) may be earned in: English, secondary education; history, social studies education; technology education with concentrations in secondary education, or trade and industry; mathematics, secondary education; biology, secondary education; chemistry, secondary education; geology, secondary education; and physics, secondary education. The Bachelor of Science degree with K-12 teacher licensure may also be earned in art education (K-12); French and francophone studies, education (K-12); physical education teacher education (K-12), Spanish, education (K-12); and teaching theatre arts (K-12). Non-teaching degrees offered through the Reich College of Education are: Bachelor of Science degree in Apparel Design and Merchandising; and a Bachelor of Science degree in Child Development (non-teaching) with a concentration in Family and Consumer Sciences.

NOTE: Although the requirements for most degree programs at Appalachian can be met within the minimum of 122 semester hours, the student should be aware that certain programs of study require additional hours. Students are advised to check with the department of their intended major early in their studies. Meeting graduation requirements is the student's responsibility.

Professional Core Curriculum Goals

Goals of the Reich College of Education's Undergraduate Professional Core Curriculum are to develop prospective teachers who:

1. Have the ability and desire to reason soundly, to communicate clearly, and to demonstrate critical reading, listening, and viewing skills
2. Understand the organizational structure of knowledge about teaching and who can access that knowledge with current and emerging technologies
3. Are reflective, professional decision makers
4. Help students develop an integrated view of knowledge and reject narrow specialization and fragmentation
5. Help students develop a concept of ethics and justice, and a desire to work towards eliminating injustices in schools and society
6. Help students acquire respect for learning and compassion for people, especially students in their schools
7. Are creative, reform minded individuals who possess the leadership ability and courage to have a direct impact on students and the school/community
8. Obtain knowledge of learning theories
9. Obtain knowledge of national and state programs and standards that will affect them as teachers in the twentieth century
10. Understand childhood and the processes of social, cognitive, and physical development

The Reich College of Education

11. Understand the issues of technology and their impact on society
12. Understand the social context of schooling and the complex relationship between schools and society
13. Enter into the ongoing conversation about what the aims of education and schooling ought to be in a pluralistic democratic society
14. Have the opportunity to understand and address the ethnical and professional issues of teaching in public schools in a democratic society
15. Foster the intellectual and moral character necessary to become a thoughtful and effective teacher
16. Understand the implications of student diversity for teaching and learning
17. Understand and apply current and emerging technologies for instruction

Bachelor of Science Degree (with teacher licensure)

To earn the Bachelor of Science degree with teacher licensure, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.50. A transfer student must have at least a 2.50 grade-point average on all work at Appalachian.
2. Completion of the general education requirements
3. Demonstration of proficiency in reading, speech, and written English
4. Completion of a major consisting of 24 to 56 semester hours from one of the fields listed below.

Art education (K-12)

Biology, secondary education

Business education with concentrations in business education, and business and marketing education

Chemistry, secondary education

Child development: birth through kindergarten

Elementary education

English, secondary education

Family and consumer sciences, secondary education

French and francophone studies, education (K-12)

Geology, secondary education

Health education, secondary education

History, social studies education

Mathematics, secondary education

Middle grades education (6-9) with concentrations in language arts, mathematics, science, and social studies

Music education (K-12) [bachelor of music degree]

Physical education teacher education (K-12)

Physics, secondary education

Spanish, education (K-12)

Special education with concentrations in adapted curriculum K-12 and general curriculum K-12

Teaching theatre arts (K-12)

Technology education with concentrations in technology education, secondary education, and trade and industry

A student must have at least a 2.50 grade-point average to be admitted to the teacher education program and must maintain a 2.50 grade-point average overall and a minimum 2.00 grade-point on all work in the major. Transfer students must have at least a 2.00 grade-point on all work at Appalachian in the major.

5. Completion of the following 24 semester hours of professional education requirements:

CI 2300 Teaching and Learning in the Digital Age (2 s.h.)

Required prior to admission to teacher education.

FDN 2400 Critical Perspectives on Learning and Teaching (2 s.h.)

(Prerequisite or corequisite: CI 2300.) Required prior to admission to teacher education.

PSY 3010 Psychology Applied to Teaching (3 s.h.)

(Prerequisite or corequisite: CI 2300.) May be taken prior to or after admission to teacher education.

SPE 3300 Creating Inclusive Learning Communities (3 s.h.)

(Prerequisites: CI 2300, FDN 2400, PSY 3010) Admission to teacher education required.

CI 3400 Policies and Practices in Educational Assessment (2 s.h.)

(Prerequisites: CI 2300, FDN 2400, PSY 3010) Admission to teacher education required.

CI 4900 Student Teaching (12 s.h.)

(All courses in the professional core must be completed with grades of "C" (2.0) or higher prior to student teaching, along with other courses identified within the major that must be completed prior to student teaching.)

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Professional courses in Reading*+, and/or Methods*+, may be required in the major. The department advisor, departmental requirements, and major programs of study should also be consulted.

Elementary education, middle grades education, business education, and health education (see program requirements in the Department of Curriculum and Instruction)

Special education (see program requirements in the Department of Reading Education and Special Education)

Child development (B-K) and Family and consumer sciences, secondary education (see program requirements in the Department of Family and Consumer Sciences)

Secondary education (9-12): CI 2300+#, FDN 2400+#, PSY 3010+, SPE 3300+*, CI 3400+*, CI 4900*, and reading course*+, methods course*+, and major courses as identified by major*+.

Special subject majors (K-12): CI 2300+#, FDN 2400+#, PSY 3010+, SPE 3300+*, CI 3400+*, CI 4900*, and reading course*+, methods course*+, and major courses as identified by major*+.

Students must earn 12 semester hours credit for student teaching.

These courses may not be taken under the pass-fail grading system.

+ A grade of "C" (2.0) or higher must be made in each of these courses.

Course must be taken prior to admission to teacher education.

* Admission to teacher education required before enrolling in these courses.

6. Electives to complete a minimum of 122 semester hours
7. Completion of residency requirements
8. Compliance with regulations concerning the settlement of all expense accounts
9. Recommendation of the faculty
10. Take PRAXIS I Academic Skills Assessments: Reading, Writing and Mathematics (SAT and ACT scores may be used in lieu of PRAXIS I scores provided required minimum scores are met), and, if required in the student's field, PRAXIS II Subject Assessment or Specialty Area test. (The North Carolina State Board of Education has designated PRAXIS II as the standard examination.) A table of minimum cut-off scores is available in the RCOE Dean's Office (COE 400).
11. Students majoring in elementary education (K-6); business education; health education, secondary education; middle grades education (6-9); physical education teacher education, (K-12); or technology education are required to complete a second academic concentration.

Admission to Reich College of Education

1. When students have completed at least 30 semester hours, including credit for ENG 1000 or an equivalent course and credit for or current enrollment in UCO 1200 or an equivalent course, and have obtained at least a 2.0 GPA, they will be notified that they may officially declare their major. Students should have completed the speech prerequisite for admission to teacher education prior to declaring their major. After the major is declared, students' academic and advisement records will be forwarded to the degree granting college. This also applies to transfer students.
2. Students will be assigned an advisor in their major area. Students enrolled in the child development, elementary education, family and consumer sciences, middle grades education, health education, business education, or special education programs will be notified of their assigned advisor.

Admission to Undergraduate Teacher Education

Students who have declared an intended major in teacher education are sent a notification form which outlines deficiencies that exist in fulfilling admission requirements when they have earned 45 s.h. (usually at the end of the first semester of their sophomore year). To be admitted to a teacher education program, a student must make formal application to the Dean's Office in the Reich College of Education. Applications are available in the Dean's Office, in departmental offices, and on-line at www.rcoe.appstate.edu. All admission criteria listed below must be met prior to the formal application to teacher education being submitted. Students must have:

1. Completed at least 45 semester hours.
2. Earned a cumulative grade-point average of at least 2.50 (a grade-point average of at least 2.5 must be maintained thereafter). Transfer students, including those with 45 or more semester hours, must earn a 2.5 cumulative GPA on a minimum of 12 semester hours of courses completed at Appalachian.
3. Attained acceptable scores on PRAXIS I: Academic Skills Assessment (Reading, Writing, and Mathematics) or, SAT or ACT scores in lieu of PRAXIS I. Minimum passing scores are set by the North Carolina State Department of Public Instruction.
4. Completed the Candidate for Professional Licensure form (CPL). This form is required by UNC's General Administration and the North Carolina State Department of Public Instruction to determine how many students are enrolled in licensure programs. The form is also used in initiating the licensure process.
5. Completed CI 2300 and FDN 2400 with a "C" (2.0) or higher

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6. Completed the Speech prerequisite, English proficiency, and Reading proficiency as follows:

Speech prerequisite: clinical assessment must be completed by an appropriately credentialed speech-language pathologist or audiologist. Written verification of speech-language and hearing screening must be completed by or filed with the Communication Disorders Clinic.

English proficiency: completion of ENG 1000 with a 2.00 or better and successful completion of PRAXIS I: Writing with minimum scores set by state are required. (SAT and ACT scores may be used in lieu of PRAXIS I scores.)

Reading proficiency: successful completion of PRAXIS I: Reading with minimum scores set by state and a cumulative grade-point average of at least 2.50 on a minimum of 45 s.h. Students transferring in 45 or more semester hours must earn a 2.5 cumulative GPA on a minimum of 12 s.h. at Appalachian. (SAT and ACT scores may be used in lieu of PRAXIS I scores.)

7. Declaration of a **second academic concentration** (if a second academic concentration is required).

8. Criminal background checks must be current (within previous six months) at the time of admission to teacher education.

9. Grades of "I" (Incomplete) must be removed prior to admission to teacher education.

If all admission criteria are not met when the formal application to teacher education is made, the application will be returned to the student. Students will be formally notified if they are not accepted into the teacher education program.

Course Restrictions Prior to Admission

The progression of potential undergraduate candidates in teacher education programs is limited to introductory courses only until formal admission requirements have been satisfied. Formal admission to teacher education must occur at least one semester, excluding summer, prior to student teaching.

Students will be permitted to take only the following professional studies courses before being formally admitted to a teacher education program:

CI 2300 (2 s.h.)

FDN 2400 (2 s.h.)

PSY 3010 (3 s.h.)

Students must have taken and met minimum scores on PRAXIS I: Academic Skills Assessments (Reading, Writing and Mathematics) or, SAT or ACT (in lieu of PRAXIS I); achieved a 2.50 GPA on 45 semester hours (transfer students must have achieved a 2.5 cumulative GPA on a minimum of 12 semester hours of courses completed at Appalachian); and established proficiencies in reading, English, and speech prior to being admitted to teacher education.

Students will not be allowed to proceed in teacher education beyond the above mentioned courses until all entrance requirements have been successfully completed. Students may not take SPE 3300, CI 3400, CI 4900, SPE 4900, methods courses or reading courses prior to admission to teacher education.

Advisement

All freshmen will be advised in the University College Academic Advising Office. ALL teacher education students with majors housed in the Reich College of Education are assigned an advisor when a teacher education major is declared. All majors housed in other colleges are encouraged to seek advisement in their major department or in their college/school Dean's Office. Advisement for majors housed in the Reich College of Education is mandatory and students will not be allowed to preregister until they have consulted with their advisor. Admission and licensure information is available from the Reich College of Education Dean's Office (COE Building, Room 400). Advisement within the College is an ongoing process and generally proceeds with the following steps.

1. All students entering Appalachian State University are required to attend an orientation session prior to registration. Students desiring to major in teacher education programs meet with representatives from the Reich College of Education. During the orientation meeting and throughout the advising process, students are informed of the probability of their success regarding admission to and continuation in a teacher education program within the University.
2. All students in University College have mandatory advising with an advisor. A record of advising sessions is kept in the student's folder while in the University College and after the student is admitted to a teacher education program.
3. After moving from University College and officially declaring a teacher education major as a career goal, students will be assigned an advisor in their major.
 - a. Elementary education, middle grades education, special education, business education, health education, family and consumer sciences, apparel design and merchandising, and child development students are required to meet with an advisor from the Reich College of Education.
 - b. Secondary education (9-12), and special subject (K-12) majors, will meet with an advisor from their major department/college and their advisors will consult as needed with the RCOE Dean's Office, COE Room 400.
4. After being admitted to teacher education, students will be advised as follows:
 - a. Reich College of Education majors will continue to be advised by an assigned advisor in the appropriate major within the college.

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- b. Secondary education (9-12) and special subject (K-12) majors will continue to be advised by an advisor in their major department/college and, when needed, their advisors will consult with the Reich College of Education's Dean's Office.

As students move through their teacher education program, their progress will be carefully monitored by personnel in the Dean's Office using the BANNER Student Information System and through the RCOE Assessment System.

Student Teaching

During the seventh or eighth semester, students who are taking undergraduate programs of study leading to teacher licensure will student teach for one semester. This work will consist of full-time teaching under the supervision of a competent and experienced teacher. Student teaching provides the student with a professional field experience in the appropriate area. There are no provisions to fulfill the student teaching requirement during the summer session. Students must be admitted to teacher education at least one semester, excluding summer, prior to student teaching and must have a cumulative GPA of 2.5 or higher to student teach.

Students will be notified in advance concerning their assignments. Student teaching assignments will conform to the local schools schedule and calendar.

Special field experience programs are required during the sophomore, junior and/or senior years. Information may be obtained from the appropriate departmental chair or program coordinator.

Internship

Students planning to take internships/practica should contact individual departments in the Reich College of Education to inquire about requirements and procedures for entering these experiences.

Conditions Prerequisite to Student Teaching

The following requirements must be met prior to student teaching:

1. All proficiencies and professional education courses including reading and methods courses must have been completed satisfactorily with a grade of 2.00 or better. A cumulative GPA of 2.5 is required for student teaching.
2. A student who has completed all prerequisites for student teaching will be unconditionally placed. Others may be tentatively placed until all prerequisites have been satisfied. However, no student will be permitted to begin student teaching unless all prerequisites have been satisfied. Students must be fully admitted to teacher education at least one semester, excluding summer, prior to student teaching. Students will not be eligible for student teaching if cumulative GPA is less than 2.5.
3. Prior to student teaching, elementary education majors must have satisfactorily (2.0 or higher) completed: CI 2300, FDN 2400, PSY 3010, SPE 3300, CI 3400, CI 3110, RE 3030, RE 4030, CI 4000, CI 4030, CI 4401, CI 3750, HED 3645, PE 3556, ENG 3240/RE 3240, MAT 3030/CI 3030, MAT 2030, CI 3000/SPE 3000, CI 3015/FDN 3015, ART 3021 or CI 3021 or MUS 2024 or THR 3856. Students must also complete HIS 2201 or HIS 2204 and GHY 3013 or HIS 3728 prior to student teaching. Students must refer to departmental requirements for additional prerequisites for student teaching.
4. Prior to student teaching, middle grades education majors must have satisfactorily (2.0 or higher) completed CI 2300, FDN 2400, PSY 3010, SPE 3300, CI 3400, CI 3750, CI 3900, CI 3910, CI 3920, CI 4400, CI 4450, RE 4630, and two (2) required methods courses. Students must refer to departmental requirements for additional prerequisites for student teaching.
5. Prior to student teaching, child development (B-K) majors must have satisfactorily (2.0 or higher) completed CI 2300, FDN 2400, PSY 3010, SPE 3300, CI 3400, RE 3902, required methods courses, and other major requirements prerequisite for student teaching.
6. Prior to student teaching, secondary majors (9-12) must have satisfactorily (2.0 or higher) completed CI 2300, FDN 2400, PSY 3010, SPE 3300, CI 3400, and required reading and methods courses. Secondary majors must refer to departments for additional prerequisites for student teaching. English majors are required to take RE 4620 in lieu of RE 4630.
7. Special subject (K-12) students (art, health education, music, physical education, foreign languages, and special education) must have satisfactorily (2.0 or higher) completed prior to student teaching: CI 2300, FDN 2400, PSY 3010, SPE 3300, CI 3400 and required reading and methods courses. Also, special subject students must refer to departmental requirements for additional prerequisites for student teaching.
8. Each applicant must agree to student teach full-time for one semester.
9. Students seeking multiple licensures must make particular arrangements with the Director of Field Experiences to meet student teaching requirements.

Steps in Application for Student Teaching

1. Students must have been fully admitted to the Reich College of Education's teacher education program at least one semester, excluding summers, prior to student teaching, and must have met all student teaching prerequisites before they will be allowed to student teach. (See the appropriate section of this catalog for specifics.) Students must have a cumulative GPA of 2.5 or higher to student teach.

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2. Those students planning to student teach in either the fall or spring semesters of a given academic year must attend the student teaching orientation meeting one academic year prior to their actual placement. Contact the Office of Field Experiences for date, time, and location of the meeting.
 - A. Students attending the orientation meeting will receive:
 - 1) Copies of application for student teaching forms; students must complete the student teaching application online at www.ced.appstate.edu/students/teaching/
 - 2) A copy of the teacher education—information sheet. This sheet lists the requirements for admittance to the teacher education program, requirements in the teacher education program and prerequisite courses for student teaching. Note: The application forms must be completed by the student and returned to the Office of Field Experiences, COE Room 400.
 - 3) Information regarding criminal background checks
 - B. Additional information presented at the orientation meeting will include:
 - 1) Identification of possible geographic placement areas
 - 2) Identification of student teacher supervisors within each placement area
 - 3) General procedures/rules concerning placement, course prerequisites, and advising procedures. Students having questions concerning particular student teaching situations should contact the Director of Field Experiences in the College of Education Building, Room 400.

Teacher Licensure

All Appalachian State University teacher education programs have received appropriate approval by the State Board of Education and lead to North Carolina teacher licensure.

Persons who desire to receive teacher licensure from Appalachian and who are college graduates with non-teaching degrees, those who are lateral entry, and those who wish to be licensed in a second teaching area must make formal application to the Office of the Dean of the Reich College of Education. As part of the licensure only student application process, students will indicate types and areas of any licensure they hold and the area and level in which they desire licensure. Completed transcripts of all previous college credit must accompany the application. No licensure commitments will be made by the University until completed application and transcripts have been received and reviewed by the chair of the involved academic department and by the Associate Dean's Office of the Reich College of Education and the student accepted as a licensure only student. A person seeking such licensure must meet criteria for admission to teacher education (see note below regarding 2.5 GPA), the same or comparable licensure requirements, and demonstrate proficiencies required of regular Appalachian State University teacher education degree seeking students and students seeking similar licensure. Students who do not, at time of baccalaureate degree, have a minimum cumulative grade-point average (GPA) of at least 2.5 (on a 4.0 scale) must pass the Praxis I tests (or use SAT or ACT scores in lieu of Praxis I tests) and have one of the following:

- GPA of 3.0 in the major field of study
- GPA of 3.0 on all work completed in the senior year or
- GPA of 3.0 on a minimum of 12 semester hours beyond their undergraduate degree which must be taken at Appalachian

In order to enter as a licensure only student, recommended deadlines for application and supporting documentation are:

- for Fall Semester, JULY 1
- for Spring Semester, NOVEMBER 1
- for Summer Session I, APRIL 1
- for Summer Session II, MAY 1

Graduate Degrees

The Reich College of Education offers the following graduate degrees. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information:

- Master of Arts degree in Child Development: Birth through Kindergarten with concentrations in (1) Allied Professions for Children and Families, and (2) Teaching
- Master of Arts degree in Clinical Mental Health Counseling with concentrations in (1) Addictions Counseling, (2) Marriage and Family Counseling, (3) Expressive Arts Therapy, (4) Clinical Mental Health Counseling, General, and (5) Body Centered Therapy
- Master of Arts degree in College Student Development with concentrations in (1) College Outdoor Program Administration, and (2) Student Affairs Practice
- Master of Arts degree in Curriculum Specialist
- Master of Arts degree in Educational Media with concentrations in (1) Instructional Technology Specialist/Computers, and (2) Instructional Technology Specialist/Computers, General
- Master of Arts degree in Educational Media with concentrations in (1) Instructional Technology Specialist/Media Production, (2) Instructional Technology Specialist/Media Literacy, (3) Instructional Technology Specialist/New Media and Global Education
- Master of Arts degree in Elementary Education

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- Master of Arts degree in Higher Education with concentrations in (1) Adult and Developmental Education, (2) Community College and University Leadership, and (3) Teaching (non-licensure)
- Master of Arts degree in Marriage and Family Therapy
- Master of Arts degree in Middle Grades Education with concentrations in (1) Language Arts, (2) Mathematics, (3) Science, and (4) Social Studies
- Master of Arts degree in Professional School Counseling with concentrations in (1) Elementary/Middle School Licensure and (2) Secondary School Licensure
- Master of Arts degree in Reading Education, General with concentrations in (1) Adult Literacy and (2) Classroom/Clinical
- Master of Arts degree in Special Education with concentrations in (1) Emotional/Behavioral Disorders, (2) Intellectual Disabilities (Mental Retardation), and (3) Learning Disabilities
- Master of Arts degree in Special Education/Teaching Parent Specialty
- Master of Library Science (MLS) degree in Library Science, General with concentrations in (1) School Libraries and (2) Public Libraries
- Master of School Administration (MSA) degree
- Ed.S. degree in Educational Administration
- Ed.S. degree in Higher Education with concentrations in (1) Adult and Developmental Education, (2) Community College and University Leadership, and (3) Teaching (non-licensure)
- Ed.D. degree in Educational Leadership with concentrations in (1) Educational Leadership, Licensure, and (2) Educational Leadership, General

Department of Curriculum and Instruction (CI)

Michael G. Jacobson, Chair

Susan A. Colby, Assistant Chair

Leslie U. Bradbury

Donna Breitenstein

Herbert F. Brown

J. Allen Bryant, Jr.

Ann-Marie Clark

Elizabeth A. Daigle

Chrystal O. Dean

Alicia M. Finnell

Shanan H. Fitts

Damiana D. Gibbons

Tracy Goodson-Espy

Melanie W. Greene

Eric C. Groce

Robin D. Groce

Lisa A. Gross

Robert R. Heath

John J. Janowiak

Doris M. Jenkins

Rose Kathleen Lynch-Davis

Claire Z. Mamola

Diane B. Marks

Gregory S. McClure

C. Kenneth McEwin, Jr.

Jennifer R. McGee

Terri D. Mitchell

Robert Muffoletto

Joseph R. Murphy

Jane P. Norwood

Sandra F. Oldendorf

Linda C. Pacifici

Lisa L. Poling

Arthur J. Quickenton

Laurie A. Ramirez

Theresa A. Redmond

Tracy W. Smith

Charlene W. Sox

Holly J. Thornton

David A. Wiley

Rachel E. Wilson

Sara O. Zimmerman

The Department of Curriculum and Instruction offers undergraduate degrees in business education, elementary education, health education, secondary education, and middle grades education. Courses are also offered which lead to undergraduate licensure at the K-12 and secondary school levels (grades 9-12).

Master of Arts degrees are available in the areas of elementary education, educational media, curriculum specialist, and middle grades education (6-9). Courses which lead to graduate licensure in K-12 and secondary education are also available. See the *Graduate Bulletin* for additional information.

Undergraduate majors in the Department of Curriculum and Instruction must meet all requirements for admission into the Reich College of Education and into Appalachian's teacher education program.

Business Education (Grades 9-12 licensure)

Goals and objectives:

- Students are expected to develop business knowledge, understandings, and skills as preparation for teaching.
- Students are expected to apply learned subject matter in a classroom setting as a business and/or marketing teacher.
- Students are expected to demonstrate competencies in subject matter, knowledge, classroom management, teaching skill, learning psychology, and student evaluation.
- Students are expected to demonstrate their ability to foster learning development and applications through logical thinking, reasoning, and problem-solving regarding business and economic problems.

The Bachelor of Science degree in Business Education (407*/13.1303)[T] with teacher licensure

For the Bachelor of Science in Business Education, students must select one of the following concentrations *AND a second academic concentration is also required*. (Students should meet with their advisor for a list of appropriate second academic concentrations.)

Business Education concentration (407B)[T]

The program of study is available at: www.programsofstudy.appstate.edu/business-education-bs-business-education-407b-2012-2013

OR

Business and Marketing Education concentration (407C)[T]

The program of study is available at: www.programsofstudy.appstate.edu/business-education-bs-business-and-marketing-education-407c-2012-2013

Minor in Business Education (407/13.1303) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/business-education-minor-407-2012-2013

Child Development: Birth Through Kindergarten (B-K Licensure)

The Departments of Family and Consumer Sciences; Curriculum and Instruction; and Reading Education and Special Education cooperate to offer the **Bachelor of Science degree in Child Development: Birth Through Kindergarten (524A/13.1209) [T] leading to teacher licensure**. The degree is conferred by the Department of Family and Consumer Sciences.

The program of study is available at: www.programsofstudy.appstate.edu/child-development-birth-through-kindergarten-bs-524a-2012-2013

Elementary Education (Grades K-6 licensure)

Students in the Bachelor of Science degree in Elementary Education are expected to demonstrate:

- mastery of basic content in several disciplines, including communication skills, mathematics, the sciences, the social sciences, health education, and the arts
- knowledge of the principles of curriculum and learning theories and understanding of their relationship to instructional programs for children
- successful teaching in a variety of learning environments and in the various subject matter areas included in their preparation program
- effective instructional practices, including planning, implementing, evaluating, and reflecting
- knowledge of contemporary issues and trends in education within a historical, philosophical, and sociological framework
- an understanding of human growth and development with emphasis on the elementary years
- competence with technology as required for licensure

The Bachelor of Science degree in Elementary Education (441A/13.1202)[T] with teacher licensure

Elementary Education majors must also complete a second academic concentration.

The program of study is available at: www.programsofstudy.appstate.edu/elementary-education-bs-441a-2012-2013

Health Education, Secondary Education (Grades K-12 licensure)

Upon the completion of the Bachelor of Science degree in Health Education, Secondary Education, the health education graduate will:

- describe the discipline of health education and its foundation in learning theory and the biological and behavioral sciences
- explain the role and function of the health educator in schools, community agencies, work sites, and hospitals and clinics
- identify important concepts of nutrition, consumer health, family life/sexuality, mental health, chronic and communicable diseases, first aid and safety, and environmental health
- demonstrate a variety of methods and skills in planning, implementing and evaluating health education programs
- identify resources in health education and explain the interaction of schools and agencies in health promotion efforts

The Bachelor of Science degree in Health Education, Secondary Education (403A/13.1307)[T] with teacher licensure

Health Education majors must also complete a second academic concentration.

The program of study is available at: www.programsofstudy.appstate.edu/health-education-secondary-education-bs-403a-2012-2013

Minor in Health Education, General (403/13.1307) (teaching majors) (18 semester hours)

Health Education, General is a minor for those students with or working towards a teaching license in a subject area other than health education.

The program of study is available at: www.programsofstudy.appstate.edu/health-education-general-minor-403-2012-2013

Middle Grades Education (Grades 6-9 licensure)

The Bachelor of Science degree in Middle Grades Education with concentrations in Language Arts, Mathematics, Science, and Social Studies seeks to prepare middle grades teachers who:

- are knowledgeable about the developmental stage of early adolescence and aware of the educational implications of that knowledge
- have in-depth knowledge in at least two subject matter areas
- have specialized skills and knowledge regarding appropriate teaching strategies for middle grades students
- have a clear, working knowledge of the concept of developmentally responsive models of middle level schooling

The Bachelor of Science degree in Middle Grades Education (470*/13.1203)[T] with teacher licensure

Prospective middle grades teachers must complete two of the following concentrations: Language Arts (470B)[T], Mathematics (470C)[T], Science (470D)[T], and Social Studies (470E)[T]. The possible combinations are listed below:

Language Arts (470B)[T] and Mathematics (470C)[T] concentrations

The program of study is available at: www.programsofstudy.appstate.edu/middle-grades-education-bs-language-arts-and-mathematics-470b-470c-2012-2013

Language Arts (470B)[T] and Science (470D)[T] concentrations

The program of study is available at: www.programsofstudy.appstate.edu/middle-grades-education-bs-language-arts-and-science-470b-470d-2012-2013

Language Arts (470B)[T] and Social Studies (470E)[T] concentrations

The program of study is available at: www.programsofstudy.appstate.edu/middle-grades-education-bs-language-arts-and-social-studies-470b-470e-2012-2013

Mathematics (470C)[T] and Science (470D)[T] concentrations

The program of study is available at: www.programsofstudy.appstate.edu/middle-grades-education-bs-mathematics-and-science-470c-470d-2012-2013

Mathematics (470C)[T] and Social Studies (470E)[T] concentrations

The program of study is available at: www.programsofstudy.appstate.edu/middle-grades-education-bs-mathematics-and-social-studies-470c-470e-2012-2013

Science (470D)[T] and Social Studies (470E)[T] concentrations

The program of study is available at: www.programsofstudy.appstate.edu/middle-grades-education-bs-science-and-social-studies-470d-470e-2012-2013

Secondary Education (Grades 9-12 licensure)

Special Areas (Grades K-12 licensure)

The professional education requirements for licensure in **secondary education** are as follows:

CI 2300+# Teaching and Learning in the Digital Age	2 s.h.
FDN 2400+# Critical Perspectives on Learning and Teaching.....	2 s.h.
PSY 3010+ Psychology Applied to Teaching	3 s.h.
SPE 3300+* Creating Inclusive Learning Communities.....	3 s.h.
CI 3400+* Policies and Practices in Educational Assessment.....	2 s.h.
Methods Course(s)*+ in area of teaching specialty.....	2–6 s.h.
RE 4630*+ Reading in the Content Areas (or as designated in major).....	2-3 s.h.
<i>(English majors take RE 4620*+, 3 s.h.)</i>	
CI 4900* Internship/Student Teaching	12 s.h.

A student preparing to teach a special area (grades K-12 in art, health, physical education, French, Spanish, theatre, or music) must complete CI 2300+#, FDN 2400+#, PSY 3010+, SPE 3300+*, CI 3400+*; reading+* and methods+* course or courses as required in the major; and CI 4900*. (Secondary Education and special area majors should refer to the Reich College of Education section of this catalog for additional information and requirements.)

+Must be completed with the grade of "C" (2.0) or better.

#These courses must be taken prior to admission to teacher education.

*Cannot be taken prior to admission to teacher education.

Media Studies Minor (467/13.0501) (15 semester hours)

In addition to the programs listed above, an undergraduate minor in Media Studies is available.

The program of study is available at: www.programsofstudy.appstate.edu/media-studies-minor-467-2012-2013

Courses of Instruction in Curriculum and Instruction (CI), Business Education (BE), and Health Education (HED)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

CURRICULUM AND INSTRUCTION (CI)

CI 2300. Teaching and Learning in the Digital Age (2).F;S.

This course will examine how emerging technologies are transforming our society and schools, as well as the implications these changes have for teaching and learning. Strategies for building teacher education candidates' critical habits of mind with respect to new technologies and media will be developed in the context of a broad definition of literacy that includes traditional and emerging literacies. As teacher education candidates learn to integrate technology into their teaching and to produce media themselves, the ethical, legal, and pedagogical issues related to technology creation and use will be emphasized. Throughout the course, teacher education candidates will explore the institutional context for the use of technology in schools and will develop skills at identifying

and addressing the constraints and contradictions implicit in using technology creatively in public school classrooms. A grade of "C" (2.0) or higher must be earned. Must be taken prior to admission to teacher education. FDN 2400 and/or PSY 3010 may be taken concurrently with this course. Prerequisite: sophomore status with identified intended or declared major in teacher education. (COMPUTER)

CI 3000. Learner Diversity: Teaching English Language Learners (3).F;S.

This course examines current literature and instructional practices related to working with English language learners (ELLs) in mainstream classrooms, especially in the areas of understanding cultural differences, and developing language and content learning. Emphasis is placed on developing positive dispositions towards and empathy for the challenges faced by linguistically diverse students and their families. Instructional strategies and interventions will be observed, modeled, discussed, and analyzed. Coursework is integrated with K-6 field experiences to provide real-world contexts for classroom instruction and discussion. (Same as SPE 3000.)

CI 3010. Classroom Management for Secondary Teachers (1).F.

This course provides opportunities for students to study, observe, and participate in using classroom management strategies in secondary schools. Reflection on, and analysis and discussion of practicum experiences are integrated into regularly scheduled seminar classes. Emphasis is placed on: making and documenting classroom management decisions; taking action and communicating these actions to students and parents; and strategies for becoming a reflective practitioner. Lecture and laboratory hours required.

CI 3015. Developing and Using Classroom Assessments (2).On Demand.

An overview of the basic concepts used in developing and using classroom assessments. Students are introduced to strategies used to set objectives and assess student learning including traditional, authentic, and performance techniques. Topics include: test item construction, test score statistics, item analysis, standardized tests, and grading and reporting to parents. Effective assessment strategies are modeled and applied to educational settings in North Carolina. Links quality assessment to effective teaching and effective schools. (Same as FDN 3015.)

CI 3021. Visual Art in the Elementary School (3). On Demand.

A general orientation to visual art teaching/learning for the elementary level classroom teacher. Students will study the broad subject of visual art (aesthetics, history, criticism, and studio) and will acquire the ability to devise and evaluate worthwhile art lessons that are comprehensive, integrated, and multi-cultural in nature. Students will create and teach their own visual arts lesson, devise a curriculum, engage in studio activities, etc. Two hours per week lecture; two hours per week studio. Prerequisite: ART 2011.

CI 3030. Investigating Mathematics and Learning (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course prepares prospective teachers to construct a comprehensive understanding of effective mathematics instruction in grades K-6 with selected instructional activities designed for implementation during field placement experiences. The course includes content, methods, and materials of elementary school mathematics instruction. Topics include the content strand number and operations and process strands connections, communication, problem solving, reasoning and proof, and representation. The course emphasizes instructional design principles for teaching number and operation. Effective communication of mathematical ideas is a focal point of the course. Prerequisites: MAT 2030 and ENG 2001 or its equivalent. (Same as MAT 3030.) (WRITING)

CI 3031. Band Techniques and Materials (2).S.

A survey of the materials and methods in teaching bands. Lecture two hours. Prerequisite: admission to the music education degree program. (Same as MUS 3031.)

CI 3032. Choral Techniques and Literature I (2).F.

A survey of the materials, methods and literature in choral teaching. Lecture two hours. Prerequisite: admission to the music education degree program. (Same as MUS 3032.)

CI 3033. Orchestral Techniques and Materials (2).S. Alternate years.

A survey of materials and methods employed in teaching orchestras. Prerequisite: admission to the music education degree program. Music Education (string) majors only. Lecture two hours. (Same as MUS 3033.)

CI 3034. Methods for Teaching General Music (3).F.

Methods and foundations for teaching elementary and secondary general music education will be presented. Public school field experiences are included in this course. Lecture two hours, laboratory two hours. Prerequisite: MUS 2034 and admission to the music education degree program. (Same as MUS 3034.) (SPEAKING)

CI 3060. Social Studies in the Middle Grades (3).F.

This course focuses on the comprehensive study of social studies, instructional strategies, resource materials, the North Carolina

Standard Course of Study, national standards, and the assessment of student learning. Other key topics include: using technology, changing demographics, integrative curriculum and instruction, and community service.

CI 3070. Teaching Theatre, 9-12 (3).F.

Methods for teaching theatre in the 9-12 classroom. This course includes strategies, organization and administration for classroom and production activities in theatre arts. Experiences include developing lesson plans and actual high school teaching experience. It is strongly advised that all requirements for licensure (except student teaching) be completed prior to taking this methods course. Prerequisite: THR 4356. (Same as THR 3070.)

CI 3080. Teaching High School Mathematics (3).F.

This course prepares prospective secondary teachers to construct an understanding of the essential elements of effective mathematics curricula, instruction, and assessment in grades 9-12. National, state, and program standards for secondary mathematics, current research in mathematics education, secondary mathematics content, and knowledge and abilities of the learner are emphasized. Principles of instructional design are used to develop mathematics instructional units. Major topics include selecting materials and resources, instructional strategies, applying technology, assessing learning, and secondary classroom management. Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for licensure (except student teaching) be completed prior to the methods course. A grade of "C" (2.0 or higher) must be earned in this class to proceed in teacher education.

CI 3090. Teaching High School Science (2).F;S.

Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for licensure (except student teaching) be completed prior to the methods course.

CI 3100. Teaching High School Social Studies (3).F;S.

National, state, and program standards for the social studies, current research in social studies education, social studies content, and knowledge and abilities of the learner are used to build lessons and units in social studies. Constructing knowledge, understanding major social studies concepts, and developing skills based on the North Carolina Standard Course of Study are emphasized. Major topics include selecting materials and resources, instructional strategies, applying technology, assessing learning, and classroom management. Includes a 45-hour internship in a regional high school. Course is to be taken concurrently with RE 4630 the semester before student teaching.

CI 3104. Practicum I (3).S.

This practicum is designed to provide opportunities for students to plan and implement developmentally appropriate learning environments, learning experiences, and interactions with children and their families. In addition, students are required to demonstrate a basic level of reflection and professional behavior. Students in this practicum will be required to work with children ages birth-2 or 3-5 years of age. The practicum consists of a minimum of 150 contact hours in a program serving young children. Periodic seminars will be required. Prerequisite: consent of the instructor. Graded on an S/U basis. (Same as FCS 3104/SPE 3104.) (WRITING; CROSS-DISCIPLINARY)

CI 3105. Practicum II (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This practicum is designed to build on and extend competencies learned in Practicum I. Students in this practicum will be required to work with children ages birth-2 or 3-5 years of age, depending on prior practicum placement. Students also will be required to plan and implement developmentally appropriate environments, learning experiences, and interactions with children and their families. In addition, students will be expected to demonstrate an advanced level of reflection and integration, as well as appropriate professional behavior. The practicum consists of a minimum of 150 contact hours in a program serving young children. Periodic seminars will be required. Prerequisites: FCS 3104/CI 3104/SPE 3104 or permission of the instructor; and ENG 2001 or its equivalent. Graded on an S/U basis. (Same as FCS 3105/SPE 3105.) (WRITING; CROSS-DISCIPLINARY)

CI 3110. Social Studies in the Elementary School (3).F;S.

National, state, and program standards for the social studies, current research in social studies education, social studies content, and knowledge of the learner are used to build lessons and units in social studies. Constructing knowledge, understanding major social studies concepts, developing skills, and connecting social studies to the broader elementary curriculum is emphasized. Major topics include selecting materials and resources, instructional strategies, applying technology, integration with other subjects, and assessing learning. Coursework is integrated with the K-6 field internship and includes a service-learning component.

CI 3120. Teaching Foreign Languages (6).F.

A study of methods, instructional strategies, organization and administration for teaching second languages in the K-12 curriculum, designed to allow students to meet Standards for Second Language Teachers as defined by the NC State Board of Education.

Experiences will include development of unit and lesson plans, classroom observations, and micro-teaching. It is strongly advised that other requirements for licensure (except student teaching) be completed prior to taking this course. (Same as LLC 3120.) Required for B.S. degree with K-12 teacher licensure.

CI 3142. Language and Literature in the Elementary School (4). On Demand.

A study of communication skills in the elementary school curriculum with emphasis on language arts and children's literature. (Same as RE 3142.) (WRITING)

CI 3160. Methods of Teaching Industrial Education (3).F;S.

An introduction to methods, instructional strategies, organization and administration for teaching classroom and laboratory activities in industrial education subjects. Experiences will include development of unit and lesson plans, demonstrations, presentation, discussion techniques and field observation. Lecture three hours.

CI 3400. Policies and Practices in Educational Assessment (2).F;S.

Prospective teachers will critically examine factors that influence assessment practices and policies in districts, schools, and classrooms. They will consider how formative and summative data are and can be used to evaluate student learning and improve teacher instruction. They will design and develop a variety of assessments for student learning. Prospective teachers will analyze accountability systems, standardized testing, and high-stakes decision making. A grade of "C" (2.0) or higher must be earned. Prerequisites: CI 2300, FDN 2400, PSY 3010, and admission to teacher education. (COMPUTER)

CI 3500. Independent Study (1–3).F;S.

CI 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

CI 3530–3549. Selected Topics (1–4). On Demand.

CI 3551. Teacher, Leader, Citizen (3).F;S.

The purpose of this course is to prepare pre-service teachers for their roles as civic leaders, educational leaders, and role models in their classrooms. Through a series of readings, class discussions, and service activities, future teachers will be encouraged to play an active role in their society and local community.

CI 3552. Environmental Literacy in 21st Century Schools and Society (3).F;S.

This course focuses on developing field-based instructional strategies for integrating current science and real-life scientific problem solving with the range of curricula covered by the North Carolina Standard Course of Study. During the course, preservice teachers will explore multi-faceted ecological issues in their community, developing teaching approaches that bring together science content with math, technology, literacy, and social studies tools.

CI 3553. Issues of Language and Culture in Public Schools (3).F;S.

This course examines the concepts of language and culture and their relationships to teaching and learning in U.S. public schools. Students will develop an understanding of the history of linguistic diversity and language education in the U.S., theoretical foundations of the relationship between language, culture, and identity, as well as how immigration influences the cultural and linguistic diversity of schools. Through the use of case studies in the second half of the course, students will develop applied knowledge of how these issues interact in public school settings.

CI 3554. Investigating the Past and Present through the Experiences of Children (3).F;S.

Students will strengthen their own content knowledge as well as develop perspectives on events children and young adolescents have experienced in the past and the present. Students will explore and compare experiences of how children around the world lived in the past and how children live today. Using children's literature, primary and secondary sources, and current events, students will investigate the resilience of young people experiencing war, oppression, natural disaster, and other hardships both in the past and in the present. Students will conduct a service project directed toward children who are experiencing major challenges such as social injustice, poverty, or natural disaster.

CI 3750. Integrating Media and Technology into Teaching (3).F;S.

Prospective elementary education teachers gain experience integrating media and technology into instruction. This course focuses on using a variety of media to enhance content area instruction, while meeting the needs of diverse learners. Prospective teachers learn skills for designing and producing quality materials using media forms such as photography and video, the Microsoft Office Suite of programs, online resources, and emerging technologies. (COMPUTER)

CI 3900. Middle Grades Internship (3).S.

GEN ED: Junior Writing in the Discipline (WID)

Prospective middle grades teachers are introduced to middle level classrooms and school communities through field experiences in professional development schools. Observation, participation, and teaching experiences ranging from individual to large group settings are included. Reflection, analysis, and discussions of practicum experiences are integrated into regularly scheduled seminars. Students will complete inquiry projects, and participate in interdisciplinary teaming while developing rapport with young adolescents and examining the context of effective middle level learning environments. This course is taken concurrently with CI 3910 and CI 3920. Lecture 20 hours; laboratory 60 hours. Graded on an S/U basis. Prerequisite: ENG 2001 or its equivalent. (WRITING; SPEAKING)

CI 3910. Middle Level Education (3).S.

Prospective middle grades teachers will have the opportunity to learn about effective middle level programs and practices. Emphasis is placed on a historical perspective of middle level programs and schools, components of highly successful middle level schools and programs, current trends and issues in middle level schooling, and middle level research. Prospective middle grades teachers examine the implications of shifting demographics on middle level education, including the study of urban and rural middle level schools and programs. There is an emphasis on the study of exemplary programs and practices for meeting the needs of young adolescents and their families.

CI 3920. Teaching Young Adolescents (3).S.

Prospective middle grades teachers will have the opportunity to learn about the educational implications of the developmental period of early adolescence. The course focuses on applying what is known about young adolescents to models of effective middle grades teaching, learning, and schooling. Particular attention is paid to issues of ethnicity, race, gender, class, and ability and how these factors influence the developmental needs of young adolescents. The role of middle grades teachers in working with family and community members is also emphasized.

CI 4000. Elementary School Curriculum and Instruction (4).F;S.

An examination of the basic principles of curriculum, instruction, and assessment in relation to children in grades K-6. Topics focusing on classroom management, working with parents, and demonstrating performance on teaching standards will also be presented. Emphasis is placed on selecting, planning, and utilizing materials, strategies, and experiences based on the developmental needs of children and young adolescents. Students apply their knowledge when teaching and assessing elementary students in a K-6 field experience culminating in a full-time internship during the last five weeks of the semester. (WRITING; SPEAKING)

CI 4020. Teaching Physical Education (3).F;S.

Students will have 30 hours of teamed experiences in public school classrooms in addition to class. It is strongly advised that all other course requirements for licensure (except student teaching) be completed prior to the methods course. Prerequisites: PE 3003, PE 3008, PE 3012 and PE 3032 with a grade of "C" or higher in each.

CI 4030. Teaching Mathematics in the Elementary School (3).F;S.

A study of mathematics and pedagogy for prospective K-6 teachers. Mathematical content strands include measurement and geometry and process strands connections, communication, problem solving, reasoning and proof, and representation with the integration of technology and assessment. Selected assessment and instructional activities will be designed for implementation with elementary students during field placement experiences. Prerequisites: MAT 2030 and CI 3030/MAT 3030.

CI 4040. Mathematics in the Middle Grades (3).F.

This course focuses on the comprehensive study of instructional strategies for teaching middle grades mathematics. Emphasis is placed on utilization of resource materials, the North Carolina Standard Course of Study, national standards, technology use, integrative curriculum and instruction, and the assessment of student learning.

CI 4131. Teaching Family and Consumer Sciences (Grades 9-12) (3).F.

A study of the organization and management of the family and consumer sciences program in the secondary school (9-12) setting. Emphasis will be placed on instructional objectives and planning, curriculum development and utilization, classroom management and evaluation techniques. Includes an intensive, 30-hour field experience in a public school setting. Prerequisites: admission to teacher education and FCS 3700, or approval of the instructor. (Same as FCS 4131.)

CI 4200. Families in the Educational Process for Children: Birth Through Kindergarten (3).F.

The purpose of this course is to provide knowledge and skills in communicating with families as partners in educational planning for young children. Students will apply skills with families of infants, toddlers, preschoolers, and kindergarteners having typical and atypical educational needs.

CI 4300. Literacy, Language, and Culture in Middle Grades Education (3).F.

Prospective middle grades teachers will have the opportunity to learn about the foundational and current issues and methods of

instruction regarding literacy education at the middle grades level. Emphasis is placed on the politics of language and identity, socio-cultural contexts for adolescent literacy development, diverse literacy learners, and effective instructional strategies. Students enrolled in the course learn to assess students' literacy needs and acquire knowledge of a range of practices that support the literacy development of young adolescents. Prospective middle grades teachers will work with cooperating public school teachers to plan and implement literacy strategies and assessments in middle grades classrooms. (Same as RE 4300.)

CI 4401. Methods of Elementary Science Teaching (3).F;S.

This course focuses on developing instructional strategies for teaching science content as a means for achieving scientific literacy in the 21st century. A broad range of science content will be explored in the context of the North Carolina Standard Course of Study (NCSCOS) strands: Nature of Science, Science as Inquiry, Science and Technology, and Science in Personal and Social Perspectives. Students will be exposed to a variety of science teaching models with an emphasis on social constructivism and integrated instruction in a community context. Throughout the course, class work will be connected to the field experience, as students will develop school-based projects, lessons, and assessments for implementation during their internship.

CI 4421. Art Education: Age 13 Through Adulthood (3).F.

Recommended to be taken concurrently with ART 4422. Art teaching-learning for teenagers through adults for public schools and on-traditional groups, stressing personal development, concepts, environmental influences, and interdisciplinary relationships. Practicum experiences in middle school, high school, and relevant alternate sites. Prerequisites: ART 2421 and ART 3422. Prerequisites may be waived for non- licensure students with permission of the instructor.

CI 4450. Seminar in Middle Grades: Portfolio/Exhibition (1).S.

Prospective middle grades teachers will be provided technological assistance as they create professional portfolios and prepare exhibitions. Time will be scheduled for the exhibition and assessment of these products. Emphasis will be placed on fulfilling graduation and initial licensure requirements as well as the transition to career status. Graded on an S/U basis.

CI 4490. Middle Grades Curriculum, Instruction, and Assessment (4).F.

Middle grades teacher candidates select, implement, and evaluate approaches to curriculum, instruction, and assessment that are designed to improve student learning. Candidates work collaboratively with university faculty, master teachers, and interdisciplinary teams in university cohorts and professional development school settings to improve and expand their professional knowledge. Emphasis is placed on integrative curriculum practices, understanding diversity, assessment of teaching and student learning, and the use of technology. In the field experience, emphasis is placed on implementing teaching and assessment practices that are responsive to diverse students' needs, management of students, time, and resources, and participation in reflective practices. Candidates have opportunities to participate in professional association meetings, seminars, and conferences. Lecture 40 hours, laboratory 150 hours. (WRITING; SPEAKING)

CI 4552. Advanced Video Production (3).S.

This course will give students the opportunity to engage in the professional video production process as they create a video program for a client or for their portfolio. Students will learn skills in pre-production planning, production and post-production editing, and they will also learn to operate and maintain professional quality equipment. Additionally, as they act as crew on one another's projects and critique one another's work, students will learn to be a part of a video production team. Emphasis in this course is placed on thorough and creative planning, collaborative production and a progressive step-by-step approach to post-production. Prerequisite: CI 4840 or permission of the instructor. [Dual-listed with CI 5552.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4553. Issues in Transdisciplinary Service Delivery (3).S.

This seminar emphasizes the foundations for professional development, positive attitudes toward children and families, and the strong commitment toward continuous, life-long study of young children and their learning. Class discussions and assignments are designed to prepare B-K teachers to participate fully in interdisciplinary and transdisciplinary early childhood teams and to collaborate across agencies dealing with young children and their families. (Same as FCS 4553/SPE 4553.)

CI 4556. Infant/Toddler Curriculum (3).F.

The purposes of this course are (1) to apply the principles of developmentally appropriate practice to planning, implementing, and evaluating curriculum experiences for infants and toddlers; and (2) to develop strategies for integrating a range of developmental needs and disabilities within the planned curriculum. Prerequisites: FCS 2101 and SPE 3273, or consent of the instructor. (Same as FCS 4556/SPE 4556.)

CI 4591. Theory and Practice in the Teaching of High School English (3).F;S.

This course gives preservice teachers an opportunity to think about and explore pedagogy and curriculum for Secondary English through reading, discussion, planning, projects and presentations. Participants will also be asked to consider institutional issues and

conditions that impact teaching, as well as needs and concerns of adolescents, societal influences on schools, and conceptions of what constitutes good teaching and learning. This course should be taken the semester prior to student teaching. (Same as ENG 4591.) (WRITING; SPEAKING)

CI 4602. Preschool Curriculum and Instruction (3).F.

The purposes of this course are (1) to apply the major cognitive, language, affective, social and physical development theories to curriculum planning and implementation for all young children; and (2) to develop strategies for integrating a range of learning needs and disabilities into the planning and implementation of an early childhood curriculum. Emphasis will be on education services in public schools and other settings serving young children with typical and atypical needs. Prerequisite: SPE 3272, or consent of the instructor. (Same as FCS 4602/SPE 4602.)

CI 4660. Classroom Management and Assessment Practicum in Secondary Education (2-3).F.

Provides opportunities for students to study, observe, and participate in using performance assessment and classroom management strategies in public schools. Reflection, analysis and discussion of practicum experiences are integrated into regularly scheduled seminar classes. Emphasis is placed on: multiple assessment strategies, including portfolio assessment; making and documenting classroom management decisions; taking action and communicating these actions to students and parents; and becoming a reflective practitioner. Lecture and laboratory hours required. (Same as BE 4660.)

CI 4680. Kindergarten Curriculum (3).F.

Designed for both birth-kindergarten and elementary education majors, this course provides information on the history of the kindergarten movement, an overview of development of five and six year olds, classroom organization and management, as well as specific, developmentally appropriate assessments and methods for teaching children in kindergarten. Lecture three hours. Prerequisite: admission to teacher education. (Same as FCS 4680/SPE 4680.)

CI 4740. Photography and Digital Imaging (3).F;S.

Basic theory, principles, and techniques of black and white photography with an introduction to color photography and digital imaging. [Dual-listed with CI 5740.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4770. Intermediate Photography and Digital Imaging (3).F.

An intermediate photographic production course which strengthens previously acquired skills in black and white photography and provides advanced project responsibility in color photography and digital imaging. [Dual-listed with CI 5770.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4810. Introduction to Sight and Sound (3).F;S.

An introduction to the basic knowledge and skills underlying any effective audiovisual presentation. Students will have the opportunity to learn the aural and visual aesthetic principles involved in the creation of effective media presentations. They will also have the opportunity to learn the theory and operation of various common sight and sound devices, including audio tape recorders; microphones and mixers; still cameras; video cameras, monitors, and recording devices; projection devices and presentation systems. Emphasis will be placed not only on understanding how the equipment works, but on the common theoretical background shared by all these communication devices. [Dual-listed with CI 5810.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4825. Non-fiction Film and Video (3).F;S.

Students view and analyze a variety of non-fiction films and videos in terms of both form and content. Emphasis is placed on understanding the wide range of purposes for which non-fiction programs are made, and on examining the variety of techniques used to achieve those purposes. Students also engage in some hands-on experiences attempting to capture reality on videotape as part of an effort to explore what happens to reality when it is shaped into a film or video. [Dual-listed with CI 5825.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4830. Media Literacy (3).F.

The course examines what it means to be literate in a media era. Key concepts and principles from the field of media literacy are studied through an examination of motion pictures, advertising, television, photo journalism, broadcast news, and the Internet. Emphasis is placed upon understanding media texts, media industries, media narratives, and the form and language of a variety of different media. Students are provided with critical frameworks for analyzing media as well as with tools and techniques to be applied in several class projects aimed at deconstructing media messages. [Dual-listed with CI 5830.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4840. Beginning Video Production (3).F;S.

This course is a basic introduction to the creative and technical skills needed to produce effective, low-budget video programs on

location. Students will use the department's digital cameras and non-linear computer editing system to learn how to express themselves clearly in a wide variety of programming formats through the language of video. Students will gain experience in each of the three stages in the production process: pre-production, production, and post-production. [Dual-listed with CI 5840.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4860. Audio Documentary Production (3).S.

In this course, students listen to and analyze a variety of non-fiction audio programs in terms of both form and content. Emphasis is placed on understanding the wide range of purposes for which non-fiction programs are made, and on examining the variety of techniques used to achieve those purposes. The class will explore the advantages and disadvantages of creating and distributing documentaries in an audio format. Students also engage in some hands-on experiences creating sound documentaries using a variety of digital audio hardware and software. The short audio documentaries produced by each member of the class will be podcast. [Dual-listed with CI 5860.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CI 4900. Internship/Student Teaching (6-12).F;S.

GEN ED: Capstone Experience

Teaching experiences under supervision for one semester for students who plan to teach B-12. Graded on an S/U basis.

CI 4940. Media: Image and Influence (3).S.

This media literacy course concentrates on media representations, media audiences and media effects. Film and television are studied in terms of their depiction of individuals, institutions, and issues. Key categories of exploration include race, class and gender. Case studies include representations of the family, adolescence, minorities, and school. The social and psychological consequences of media content are examined with emphasis upon child and adolescent audiences, particularly in the areas of sexuality, violence, and substance abuse. Prerequisite or corequisite: CI 4830. [Dual-listed with CI 5940.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BUSINESS EDUCATION (BE)

BE 1021. Introductory Keyboarding (1). On Demand.

A course designed to teach touch keyboarding skills to enable students to more efficiently use computer terminals, microcomputers, information processors, and other typewriter designed keyboards.

BE 1030. Computer Digital Input Systems (3).F;S.

Provides opportunities for students to use speech recognition to efficiently input data; use emerging alternative digital input devices such as handheld computers, scanners, digital cameras, and cell phones. Basic skills such as formatting letters, manuscripts, and other business documents are also reinforced.

BE 1060. Business Mathematics (2). On Demand.

The fundamental process of mathematics and their application to common business practices. Topics included are trade, merchandising, valuation of assets, payrolls, taxes, insurance, banking, investments, credit, business ownership and distribution of earnings, and income taxes.

BE 1590. Personal Money Management (3).F.

Planning and managing personal finances. Emphasis is placed on controlling expenditures, consumption, emergencies, borrowing, insurance, home ownership, taxes, savings, investing, retirement, and personal estate planning.

BE 2110. Word Processing Skills for Desktop Publishing (3).F;S.

This course will provide opportunities for students to gain a basic understanding of advanced word processing and desktop publishing skills that enable students to produce a variety of products. Included are work with on-line systems, basic computer components and concepts, file management, word processing applications, desktop publishing applications, and integrated related technologies such as Internet applications and multimedia applications needed to produce a variety of sophisticated products. Prerequisite: BE 1030 or the equivalent. (COMPUTER)

BE 3340. Business Communications (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Students gain experience in written and spoken business communications. Activities include writing e-mail, memoranda, letters, proposals, and reports. Oral, nonverbal, and intercultural communications are emphasized. Prerequisite: ENG 2001 or its equivalent. (WRITING; SPEAKING)

BE 3380. Information Systems for Business and Education Professionals (3).S.

This course provides instruction in computers as essential components in business and education. Students are instructed about concepts related to information systems design, networking, e-commerce, and programming languages. Students will have the opportunity to engage in some hands-on experiences related to the course objectives. (COMPUTER)

BE 3500. Independent Study (1-4).F;S.

BE 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

BE 3820. Records Management and Control (3). On Demand.

Study of the planning, implementation, and maintenance of records management and control programs (creation, distribution, retention, utilization, storage, retrieval, protection, preservation, and final disposition) in organizations in order to reduce costs in handling records and to develop efficient systems and procedures for the storage and retrieval of records at the corporate level, public governmental units; local, state, regional and national levels.

BE 3900. Internship (6-9).F;S.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisite: full admission to the Reich College of Education, junior or senior standing, and permission of the departmental chair and the program coordinator. Graded on an S/U basis.

BE 4030. Cooperative Office Education (2). On Demand.

Actual work in an office. Group conferences to be arranged. (By permission of department only.)

BE 4510. Office Management (3).F.

Study of the responsibilities, problems, and duties of the office manager approached from a management viewpoint; study made in managing the modern office from both a traditional and computerized office systems approach; study of administering systems and procedures in office work and expansion of knowledge and techniques used to reduce and control office costs. (SPEAKING) [Dual-listed with BE 5510.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BE 4550. Network Administration for Business and Education Professionals (3).F.

This course provides instruction in the administration of client/server networks with a major emphasis on network operating system software and the establishment of working network servers and core networking concepts. Students will have the opportunity to engage in hands-on experiences related to the course objectives.

BE 4650. Computer Applications for Business and Education Professionals (3).F.

This course involves extensive hands-on activities that include word processing, spreadsheets, databases, presentation and publication software. Internet activities, including web page design, will be integrated into practical projects that will build on student knowledge and skills. (COMPUTER) [Dual-listed with BE 5650.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BE 4660. Classroom Management and Assessment Practicum in Secondary Education (2-3).F.

Provides opportunities for students to study, observe, and participate in using performance assessment and classroom management strategies in public schools. Reflection, analysis and discussion of practicum experiences are integrated into regularly scheduled seminar classes. Emphasis is placed on: multiple assessment strategies, including portfolio assessment; making and documenting classroom management decisions; taking action and communicating these actions to students and parents; and becoming a reflective practitioner. Lecture and laboratory hours required. (Same as CI 4660.) [Dual-listed with BE 5660.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BE 4755. Methods and Materials in Business and Marketing Education (4).F.

This course will provide students with opportunities to acquire knowledge and skills needed to effectively teach business and marketing education courses in school settings. It places emphasis in the following areas of study: lesson and unit plans, assessment, curriculum, teaching strategies, and delivery of lessons. This course also incorporates the history of CTE, legislation affecting business and marketing education, and CTE student organization and work-based learning programs. The course requires observation and participation in public school classrooms in addition to scheduled classes. (SPEAKING)

BE 4810. Seminar (3). On Demand.

[Dual-listed with BE 5810.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

BE 4850. Management of Occupational Education Youth Organizations (3).S.

A study of how to organize and administer youth organizations in occupational business and marketing education for teachers in order to establish an excellent learning situation. [Dual-listed with BE 5850.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HEALTH EDUCATION (HED)**HED 1000. Personal and Family Health (2).F;S.**

GEN ED: Wellness Literacy

This introductory course is tailored to meet the needs of college students and the distinct health and behavioral issues that they face in a college environment. Emphases will be placed on developing communication, decision-making and goal-setting skills in the areas of sexual health, alcohol, tobacco and other drug choices, physical activity and diet, as well as improving psychological health. (CORE: PHYSICAL ACTIVITY/WELLNESS)

HED 2100. Introduction to Health Education (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This course focuses on the discipline of health education, its foundation in theories of behavior change and prevention of health risks. The roles and competencies of health educators in schools, community, and clinical and worksite settings are described. Skills of needs assessment and community analysis are introduced. The Health Belief Model and models of diffusion, adoption and epidemiology are studied. Prerequisite: ENG 2001 or its equivalent. (WRITING)

HED 3100. Emergency Care and CPR (3).F;S.

The course content and activities should prepare students to make appropriate decisions about the care given to victims of injury or sudden illness. Two American Red Cross certificates may be earned: (1) Emergency Response and (2) CPR for the Professional Rescuer. (Same as HP 3100.)

HED 3120. Consumer Health Education (3).S.

An overview of health products and services. Analysis will be made of the health care delivery system and wise decision making in the health marketplace. Included is the study of alternative healing practices, advertising of health products, and financing of health care from the consumer's perspective. The role of the FDA and FTC and other consumer protective agencies will be studied.

HED 3450. School Health Programs (3).F;S.

An examination of the three components of the school health program: comprehensive health education, school health services and a healthful school environment. This course describes the roles and functions of the health educator and coordinator in planning, implementing and evaluating programs which promote the health and well-being of school-aged children and youth. Coordination of efforts between the school, family and community are emphasized. Visitation and observations of health education programs are required.

HED 3500. Independent Study (1–3).F;S.**HED 3520. Instructional Assistance (1).F;S.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

HED 3530–3549. Selected Topics (1–4). On Demand.**HED 3645. Health Education in the Elementary School (3).F;S.**

An introduction to the content and methods of health education. The course will survey basic wellness issues such as nutrition, fitness, sexuality, drug abuse, and chronic and communicable disease prevention. The theory and practice of health education programs at the elementary level is discussed, including the use of a variety of methods and the development of relevant materials.

HED 3655. Methods and Materials in Health Education (3).F;S.

This course examines the theory and practice of planning health education programs for the middle and secondary levels. Students will gain experience in the NC Course of Study in Health Education, writing unit plans and creating lesson plans. Development of instructional materials and a variety of teaching strategies are emphasized. Visitations and observations of health education classes are required. (WRITING; SPEAKING)

HED 3900. Internship (3).F;S.

Students complete internships in a variety of health-related agencies such as health departments, community agencies, community

mental health centers, educational institutions, wellness programs, hospitals and industrial/business settings. Students survey agency functions, complete projects and write a final paper under the supervision of a health educator or health related professional. Prerequisite: HED 2100; and permission of the instructor. Graded on an S/U basis.

HED 4650. Drug Education and Prevention (3).F;S.

The primary focus of this course is to introduce the complexities of drug-related issues. The social, psychological, pharmacological, cultural, educational and political aspects of drug use, including alcohol and tobacco, are examined. In addition, the methods, materials and theories of drug abuse prevention in the school and community are discussed. (SPEAKING) [Dual-listed with HED 5650.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HED 4710. Teaching Sex Education Within a Family Context (3).F;S.

This course is designed to help health educators learn and develop strategies for teaching family living and sexuality to different age groups such as elementary, middle grades, secondary and adults. Topics to be included are reproductive anatomy, physiology, STDs and AIDS, varying cultural differences, and gaining community support. Each student will be responsible for developing appropriate curricular materials for the age group she or he will be teaching. (Same as HPC 4710/HPC 5700.) [Dual-listed with HED 5710.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HED 4730. Teaching Stress Management and Emotional Health (3).F.

This course will explore the factors associated with the development of emotional health and the management of stress as a basis for understanding the healthy personality. Emphasis will be directed towards teaching stress management and emotional health within an educational setting. Practical aspects of health education and program planning will be discussed. Students will be encouraged to deepen their commitment to affective teaching by applying the principles of self-esteem building, behavior self-management, communication, and accessing appropriate resources. [Dual-listed with HED 5730.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of Family and Consumer Sciences (FCS)

Ellen S. Carpenter, Chair

Denise M. Brewer

Mitzi C. Cook

Sammie G. Garner

Patricia F. Hearron

Cheryl L. Lee

Cindy G. McGaha

Nancy A. Oliver

Rhonda D. Russell

Carol S. Soulé

Family and consumer sciences is concerned with consumer welfare and safety; child care and development; family economics and management; apparel; shelter; and other issues related to individual and family well-being. The Department of Family and Consumer Sciences is accredited by the American Association of Family and Consumer Sciences.

The Department of Family and Consumer Sciences offers the following undergraduate degree programs:

Bachelor of Science degree in Apparel Design and Merchandising

Bachelor of Science degree in Child Development (non teaching) with a concentration in Family and Consumer Sciences

Bachelor of Science degree in Child Development: Birth Through Kindergarten (with teacher licensure)

Bachelor of Science degree in Family and Consumer Sciences, Secondary Education (with teacher licensure)
with a concentration in Consumer Education

The teacher education program is accredited by NCATE and meets the North Carolina Department of Public Instruction standards for teaching licensure.

A common core of subjects in liberal education, as well as in family and consumer sciences, is required of all majors. The general education requirements are designed to provide instruction in the natural and social sciences, the arts and humanities, and in general family and consumer sciences areas. In all programs, families and individuals as consumers are the primary foci. The curriculum, based on the general education studies, relates basic knowledge to an understanding of human needs with regard to apparel, housing, management of resources and human interactions and relationships. The program offers educational preparation for professional careers, entry into continuing education programs and graduate study.

In addition to program course work, the department is home for the Lucy Brock Child Development Laboratory Program.

The Lucy Brock Child Development Laboratory Program serves as a laboratory for child development students and for students from other university departments/programs as well. It provides opportunities for observation and direct experiences with children.

Students majoring in Family and Consumer Sciences, Secondary Education; and Child Development: Birth Through Kindergarten are required to make a grade of "C" (2.0) or higher in all major requirements. Students in Apparel Design and Merchandising must make a grade of "C-" (1.7) or higher. A 2.0 GPA in major and minor courses is required to graduate. Child Development (non-teaching) majors require an overall GPA of 2.0 to graduate. Students must make a minimum "C-" (1.7) in all major requirements.

Apparel Design and Merchandising

The Bachelor of Science degree in Apparel Design and Merchandising (710A/19.0901)

The program of study is available at: www.programsofstudy.appstate.edu/apparel-design-and-merchandising-bs-710a-2012-2013

Child Development (Non-teaching)

The Bachelor of Science degree in Child Development (non-teaching) with a concentration in Family and Consumer Sciences is designed to give the student a broad base of knowledge about children and families. Majors will take courses in all areas of family and consumer sciences. Because of the broad base of courses and the number of electives including a variety of course opportunities across the university, advisors are able to help students prepare for exciting careers working with children and families. Within the major, students select from at least one area of focus: Infant/Toddler, PreK/Kindergarten, Middle Childhood, Child Life, and Child Development Research.

The Bachelor of Science degree in Child Development (510*/19.0706) with a concentration in Family and Consumer Sciences (510F)

The program of study is available at: www.programsofstudy.appstate.edu/child-development-bs-family-and-consumer-sciences-510f-2012-2013

Child Development: Birth Through Kindergarten (Teacher Licensure)

The Departments of Family and Consumer Sciences; Curriculum and Instruction; and Reading Education and Special Education cooperate to offer the Bachelor of Science degree in Child Development: Birth Through Kindergarten leading to teacher licensure. The degree is conferred by the Department of Family and Consumer Sciences.

The Bachelor of Science degree in Child Development: Birth Through Kindergarten (524A/13.1209)[T] (with teacher licensure)

The program of study is available at: www.programsofstudy.appstate.edu/child-development-birth-through-kindergarten-bs-524a-2012-2013

Family and Consumer Sciences, Secondary Education

The Bachelor of Science degree in Family and Consumer Sciences, Secondary Education (526*/13.1308)[T] (teacher licensure) with a concentration in Consumer Education (526D)[T]

The program of study is available at: www.programsofstudy.appstate.edu/family-and-consumer-sciences-secondary-education-bs-consumer-education-526d-2012-2013

Minors in Family and Consumer Sciences

Students not majoring in the Department of Family and Consumer Sciences may earn one of the three minors listed below by the completion of the prescribed 17-18 semester hours.

Apparel Design and Merchandising Minor (710/19.0901) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/apparel-design-and-merchandising-minor-710-2012-2013-0

Child Development Minor (510/19.0706) (17-18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/child-development-minor-510-2012-2013

Family and Consumer Sciences (general) Minor (526/19.0101) (17-18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/family-and-consumer-sciences-minor-526-2012-2013

Graduate Degrees

The Department of Family and Consumer Sciences offers a Master of Arts in Child Development: Birth through Kindergarten with concentrations in Allied Professions for Children and Families, and Teaching. Persons interested in this degree should consult the *Graduate Bulletin* for further information.

Courses of Instruction in Family and Consumer Sciences (FCS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

FAMILY AND CONSUMER SCIENCES (FCS)

FCS 1000. Apparel and Consumer Behavior (3).F.

GEN ED: Aesthetic Perspective (Theme: "Shaping the Human Environment")

An introductory study of the nature and importance of life styles; communication, economics, psychology, sociology, design and concepts of manufacturing, marketing and retailing as factors which influence consumer acceptance and utilization of fashions. Lecture three hours.

FCS 1001. Apparel Construction (3).F;S.

Theories and principles of garment design and structure in relation to figure types and posture, including their application in construction and fit of apparel for men and women. Laboratory six hours.

FCS 1100. Development and Relationships: Conception through Middle Years (3). On Demand.

A study of the development of children from conception through middle school age, incorporating the psycho-social, physical and cognitive components of development and relationships. Lecture two hours, laboratory two hours. (WRITING)

FCS 1300. Housing Environments (3).F.

Study of individual and family housing needs, housing acquisition decisions, and housing space. Students will apply the elements and principles of design to choose and to create functional, safe and aesthetically pleasing living environments which foster individual and family well-being and accommodate relevant life cycle stages. Selection of household furnishings, housing policy, trends, energy use, and material quality are explored. Lecture three hours.

FCS 1400. Professional Orientation (1).F;S.

Factors and personalities influencing the history of family and consumer sciences; present status of the discipline, future responsibilities and career opportunities. Lecture one hour. Required of all family and consumer sciences majors. To be completed either the first or second semester enrolled as a family and consumer sciences major.

FCS 2000. Consumer Textiles (3).F;S.

Consideration of textile fibers and fabrics from the viewpoint of the consumer. Factors related to raw materials, comparative quality, serviceability and cost of textiles used in apparel and home furnishings. Lecture two hours, laboratory two hours.

FCS 2002. Drawing for Apparel (1).F.

An introductory course of quick sketching and drawing skills especially for apparel and textiles majors. Emphasis will be given to sight proportions, scale, perspective, figure drawing, rendering, and layout techniques. Students will become familiar and more skilled with drawing tools and materials. This course is designed for the non-art student who may not have previous drawing experience. Laboratory two hours.

FCS 2011. Flat Pattern Design (3).S.

The use of commercial basic patterns in developing slopers for use in designing garments in relation to figure problems and current fashion trends. Prerequisites: FCS 1001 and FCS 2000. Lecture one hour, laboratory four hours.

FCS 2050. CAD for Apparel Design and Merchandising (3).F.

This course focuses on the comprehensive introduction to computer-aided design (CAD) in apparel and textiles. The components, commands, and methods of computerized design and store planning will be emphasized. Pattern and textile design, production procedures, illustration, store floor planning, dimensional plans, and fixtures layout for the apparel industry developed. Prerequisites: FCS 1001, FCS 2000, and FCS 2011. (COMPUTER)

FCS 2101. Child Development: Birth-2 Years (3).F;S.

In-depth study of infancy to include concepts, principles and developmental theories. Students will observe, record, and analyze the social, emotional, physical and cognitive development of the typical and atypical infant and toddler in the social and cultural context. Lecture two hours, laboratory two hours. (WRITING; MULTI-CULTURAL)

FCS 2102. Child Study and Guidance (3).F;S.

Child study techniques and child guidance principles and strategies appropriate for use with young children in group care and hospital settings. Includes weekly laboratory experiences and observational reports. Lecture two hours, laboratory two hours. Prerequisite: FCS 2104. (WRITING)

FCS 2103. Family Development: Origins and Movement (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Origins and Migrations")

A study, using the multicultural life span approach, of factors affecting human and family development. Theories, patterns, structures and functions of diverse family groupings and interactions and interrelationships in family processes and development will be considered in relation to current research. Students will research their individual family origins and movement over time to understand the current change in ethnic diversity. Students will also study and analyze critical family issues and compare these issues within different cultures in the United States and around the world. Lecture three hours. (COMPUTER) (CORE: SOCIAL SCIENCES)

FCS 2104. Child Development: 3-K Years (3).F;S.

Examines, with a multidisciplinary approach, the growth and development of preschool children, both typical and atypical. Students will observe, record, and analyze motor, social, emotional and intellectual development of typical and atypical children using developmental theory. Lecture two hours, laboratory two hours. (WRITING)

FCS 2110. Global Awareness: Examining the Human Condition (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Sustainability and Global Change")

A human ecological approach to the issues related to hunger, child and maternal mortality, access to primary education, and reproductive health. Economic, social, political, and geographic concepts will be related to current indicators of the United Nations Millennium Development Goals in order to analyze impacts on individuals and families. Students will develop and evaluate strategies that enhance living conditions for families in local and global contexts. Emphasis will be directed toward families most affected by negative living conditions. Lecture three hours.

FCS 2111. Social History of the Family (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Individual and Society")

This course will examine family as an institution through cross-cultural, social, and historical contexts. The purpose of the course is to provide students with an introduction to theoretical perspectives used in the study of families, knowledge of the history of family life, and learning experiences that provide opportunities to think critically, communicate intelligently, and make informed opinions about contemporary family issues. Connections to other courses within the individual and society theme will focus on individual and group decision making within the context of the family. Lecture three hours.

FCS 2355. Equipment, Technology, and Management in the Home (3). On Demand.

Selection, use, and application of equipment and technology in the home. Study and practical application of the principles and procedures of home management. Lecture two hours, laboratory two hours. Prerequisite: FCS 1300.

FCS 2500. Independent Study (1–4).On Demand.

FCS 2600. Family Economics (3).S.

A study of the management of human and material resources designed to develop competence as consumers of goods and services in a modern economic society. Lecture three hours.

FCS 3002. Apparel Design and Production (3).S.

Interrelationship of historic costume, textile materials, design and fashion drawing and illustration as tools of apparel design and production. A study of apparel design and manufacturing processes. Lecture two hours, laboratory two hours. Corequisite: FCS 4060. Prerequisites: FCS 2011 and FCS 2050.

FCS 3003. Fashion Merchandising (3).S.

An introduction to and exploration of the fashion industry in which the interrelated nature, development, and operation of the textile and apparel industry within a fashion merchandising context is studied. Lecture three hours. Prerequisite: FCS 2000. (WRITING)

FCS 3010. History of Apparel (3).F.

A study of apparel worn by different people throughout history with emphasis on how social, political, and economic events have influenced the way people dress. The course will cover how historical trends influence current fashion and will provide the student a working knowledge of fashion terminology. Lecture three hours.

FCS 3101. Enriching Experiences for Young Children (3).S.

Planning, developing and evaluating creative activities to meet the total needs of young children in preschool programs. Lecture two hours, laboratory two hours. Prerequisite: FCS 2102. (SPEAKING)

FCS 3102. Family, Child and Professional Interactions: A Focus on Young Children (3).F.

GEN ED: Junior Writing in the Discipline (WID)

A family development approach to parent, child and professional interactions with a specific focus on communication patterns and family structure. Students will study and evaluate strategies which enhance positive interactions relevant for working with parents and professionals. Emphasis will be directed toward normative and catastrophic family issues. Lecture three hours. Prerequisites: FCS 2103, FCS 2104; and ENG 2001 or its equivalent. (WRITING)

FCS 3104. Practicum I (3).S.

This practicum is designed to provide opportunities for students to plan and implement developmentally appropriate learning environments, learning experiences, and interactions with children and their families. In addition, students are required to demonstrate a basic level of reflection and professional behavior. Students in this practicum will be required to work with children ages birth-2 or 3-5 years of age. The practicum consists of a minimum of 150 contact hours in a program serving young children. Periodic seminars will be required. Prerequisite: consent of the instructor. Graded on an S/U basis. (Same as CI 3104/SPE 3104.) (WRITING; CROSS-DISCIPLINARY)

FCS 3105. Practicum II (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This practicum is designed to build on and extend competencies learned in Practicum I. Students in this practicum will be required to work with children ages birth-2 or 3-5 years of age, depending on prior practicum placement. Students also will be required to plan and implement developmentally appropriate environments, learning experiences, and interactions with children and their families. In addition, students will be expected to demonstrate an advanced level of reflection and integration, as well as appropriate professional behavior. The practicum consists of a minimum of 150 contact hours in a program serving young children. Periodic seminars will be

required. Prerequisites: FCS 3104/CI 3104/SPE 3104 or permission of the instructor; and ENG 2001 or its equivalent. Graded on an S/U basis. (Same as CI 3105/SPE 3105.) (WRITING; CROSS-DISCIPLINARY)

FCS 3106. Adolescent Development (3).S.

Examination of the physical, cognitive, social, and emotional development of adolescents in the contexts of family, peers, school, work, and culture. Emphasis on the search for identity, sexuality, autonomy, and interpersonal relations. Observation and participation with adolescents.

FCS 3107. Variations in Development: Birth through Kindergarten (3).F.

This course will examine the variations in development that occur during early childhood. Students will explore the range of developmental outcomes in young children and how development results from characteristics within children and/or from the environment. A strengths-based approach will be taken in exploring strategies for intervention in meeting the needs of young children. Prerequisites: FCS 2101 and FCS 2104.

FCS 3109. Child Development: Ages 5-12 (3).F.

A study of children as they enter the school years until they reach adolescence. The course will examine normal expectations related to physical growth and development such as: health issues, cognitive development including school expectations and language, and the social development observed in the emergence of peer relationships. This course also studies developmental criteria that include children with and without disabilities.

FCS 3110. Enriching Experiences and Programming for School-Age Children (3).F.

Planning, developing, and implementing developmentally enhancing experiences to meet the total needs of children, 5-12 years of age, in a variety of programs, including after school programs, summer camps and institutes, YMCAs, etc. Lecture two hours, laboratory two hours per week. Prerequisite: FCS 3109.

FCS 3500. Independent Study (1-4).On Demand.

FCS 3520. Instructional Assistance (1).On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

FCS 3522. Introduction to Birth-Kindergarten (3).On Demand.

An introduction to professional practices for working with young children, birth to five years, and their families. Students will examine concepts related to developmentally appropriate practices with young children, as well as exploring professional requirements and standards for those who work with young children.

FCS 3530-3549. Selected Topics (1-4). On Demand.

FCS 3700. Introduction to Family and Consumer Sciences Education (3).S.

Survey of the North Carolina program of studies in secondary family and consumer sciences and the vocational student organization (FCCLA). Guided observation and participation in educational settings. Prerequisite: approval of the instructor.

FCS 3901. Practicum (3).On Demand.

Approved work experience related to competencies in a program area of family and consumer sciences education as required by the State Department of Public Instruction. Supervision and evaluation will be by the employer and the faculty member. Minimum of 200 work hours. Prerequisite: 20 s.h. of family and consumer sciences courses; 2.0 grade-point average overall. Graded on an S/U basis.

FCS 4000. Principles of Aesthetics for Apparel (3).F.

The student will utilize principles and elements of design and other factors influencing textiles and apparel to acquire and demonstrate merchandising competencies. Observation, analysis and the application of art are utilized and demonstrated through required projects. Lecture three hours. Prerequisites: FCS 2000, FCS 2002, FCS 2050, and ART 1011.

FCS 4002. Visual Merchandising, Display and Promotion (3).S.

A study of visual merchandising and promotion within the context of the fashion industry. Creative opportunities are provided to develop skills through individual and group promotional activities and projects. Lecture two hours, laboratory two hours. Prerequisites: FCS 2002 and FCS 3003.

FCS 4003. Fashion Buying and Retail Math (3).F.

This course provides the basics of financial merchandise management and decision making for profitable apparel, textile and retail businesses. Merchandise buying is viewed from a qualitative and quantitative perspective. Lecture three hours. Prerequisites: FCS 3003 and ACC 2100.

FCS 4004. Merchandising Management: Principles and Practices (3).S.

An integrative approach to the role of merchandising management from a qualitative and quantitative perspective. Acquired merchandising concepts and principles are integrated and synthesized for the examination and exploration of the many aspects of merchandising management. Includes simulated management activities such as: case study and role playing. Lecture three hours. Prerequisites: FCS 4000 and FCS 4003. (WRITING)

FCS 4060. Illustration and Portfolio (3).S.

The student will develop and present a professional portfolio of work with emphasis on the area(s) in which the student wishes to specialize, including drawing the figure with proficiency and originality and developing advertising layout techniques. This course is designed to be a senior exit course for job searches and interviews. Lecture one hour, laboratory four hours. Corequisite: FCS 3002. Corequisite or prerequisite: FCS 4400. Prerequisites: FCS 4000 and MKT 3240.

FCS 4102. Critical Issues: Stressors in Child and Family Development (3).S.

Study of various critical issues affecting children with an emphasis on infancy and early childhood. Lecture three hours. Prerequisites: FCS 2103 and FCS 2104.

FCS 4131. Teaching Family and Consumer Sciences (Grades 9-12) (3).F.

A study of the organization and management of the family and consumer sciences program in the secondary school (9-12) setting. Emphasis will be placed on instructional objectives and planning, curriculum development and utilization, classroom management and evaluation techniques. Includes an intensive, 30-hour field experience in a public school setting. Prerequisites: admission to teacher education and FCS 3700, or approval of the instructor. (Same as CI 4131.)

FCS 4315. Habitats and Public Policy (3). On Demand.

Historical and current politico-economic climates and their influences on the physiological, psychological and sociological aspects of housing. The interrelationships of the physical environment with people in urban, suburban, and rural housing situations. Current developments in housing with emphasis on private and federal programs. Lecture three hours. Prerequisite: junior standing. (WRITING)

FCS 4400. Professional Seminar (1).F;S.

GEN ED: Junior Writing in the Discipline (WID)

A study of concepts and skills essential for successful entry into the professional world including job search strategies, resume development, interview strategies, written and oral communication, professional ethics, and career management and development. Lecture one hour. Prerequisites: FCS 1400 and senior level standing or approval of the major advisor; and ENG 2001 or its equivalent. Should be completed before taking FCS 4900. (WRITING)

FCS 4450. Contemporary Issues in Family and Consumer Sciences (2).F;S.

An integrative study of contemporary issues in relation to individuals and families: child development, family relations, parenting, resource management, housing, interior design, apparel and textiles, food and nutrition. Team building and problem solving skills using interdisciplinary group assignments will be incorporated into presentation and discussion. Prerequisites: FCS 1400, FCS 2103, junior or senior level standing. (WRITING)

FCS 4551. Families in Later Life (3).F.

In-depth study of factors influencing interrelationships in family development in the later years. Lecture three hours. Prerequisite: FCS 2103 or permission of the instructor. [Dual-listed with FCS 5551.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

FCS 4553. Issues in Transdisciplinary Service Delivery (3).S.

This seminar emphasizes the foundations for professional development, positive attitudes toward children and families, and the strong commitment toward continuous, life-long study of young children and their learning. Class discussions and assignments are designed to prepare B-K teachers to participate fully in interdisciplinary and transdisciplinary early childhood teams and to collaborate across agencies dealing with young children and their families. (Same as CI 4553/SPE 4553.)

FCS 4556. Infant/Toddler Curriculum (3).F.

The purposes of this course are (1) to apply the principles of developmentally appropriate practice to planning, implementing, and evaluating curriculum experiences for infants and toddlers; and (2) to develop strategies for integrating a range of developmental needs and disabilities within the planned curriculum. Prerequisites: FCS 2101 and SPE 3273, or consent of the instructor. (Same as CI 4556/SPE 4556.)

FCS 4602. Preschool Curriculum and Instruction (3).F.

The purposes of this course are (1) to apply the major cognitive, language, affective, social and physical development theories to curriculum planning and implementation for all young children; and (2) to develop strategies for integrating a range of learning needs and disabilities into the planning and implementation of an early childhood curriculum. Emphasis will be on education services in public schools and other settings serving young children with typical and atypical needs. Prerequisite: SPE 3272, or consent of the instructor. (Same as CI 4602/SPE 4602.)

FCS 4609. Seminar in Vocational Education (1).F.

A study of the historical, legislative, and philosophical bases of vocational education; organization of vocational education in North Carolina; and contemporary issues in vocational education. Prerequisites: approval of the instructor. [Dual-listed with FCS 5609.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

FCS 4610. Administration of Early Childhood Programs (3).S.

A study of the role of the program administrator in a variety of early childhood settings, both public, private and non-profit. This study will involve program planning, staff administration, assessment of facility and equipment needs, appropriate program and financial management using computer management software and studying the state regulations that govern programs for young children. Lecture three hours. Prerequisite: FCS 3101 or permission of the instructor. (WRITING; COMPUTER) [Dual-listed with FCS 5610.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

FCS 4611. The Hospitalized Child (3).S.

This course is designed to help students understand the procedures, illnesses, and stress that are experienced by children and families during hospitalization. This course will stress both theory and practice in working with children and families for professionals in non-medical areas. (CROSS-DISCIPLINARY) [Dual-listed with FCS 5611.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

FCS 4680. Kindergarten Curriculum (3).F.

Designed for both birth-kindergarten and elementary education majors, this course provides information on the history of the kindergarten movement, an overview of development of five and six year olds, classroom organization and management, as well as specific, developmentally appropriate assessments and methods for teaching children in kindergarten. Lecture three hours. Prerequisite: admission to teacher education. (Same as CI 4680/SPE 4680.)

FCS 4701. Educational Methods for Family and Consumer Sciences (3).F.

A study of the principles of teaching and learning applied to family and consumer sciences content. The course will address instructional methods appropriate for formal and non-formal educational settings, focusing on specific oral strategies and computer applications. Prerequisite: FCS 3700 or approval of the instructor. (SPEAKING)

FCS 4709. Middle Grades Career Exploration (3).On Demand.

A study of the newer conceptual and pragmatic models of middle grades career exploration. Development of competencies of teachers in relation to the development of models, integration of cluster concepts, occupational information, and resources which might be utilized in career exploration. Meets requirements for licensure and license renewal credit for teachers involved in career education. Prerequisites: FCS 4609, FCS 4131/CI 4131 or equivalent, or permission of the instructor. Lecture two hours, laboratory two hours.

FCS 4710. Middle Grades Career Exploration Labs (3).On Demand.

Study of the occupational clusters and the methods and techniques of teaching in each of the middle grades career exploration labs. Meets requirements for licensure and license renewal credit for teachers involved in middle grades career education. Prerequisite: FCS 4609, FCS 4131/ CI 4131, FCS 4709, or equivalent, or permission of the instructor. Lecture two hours, laboratory two hours.

FCS 4900. Internship (3-12).F;S.

GEN ED: Capstone Experience

Field experience or employment in the area of the student's interest: (a) apparel design and merchandising; (b) child development; (c) family and consumer sciences education. Supervision and evaluation by the employer and the faculty member.

Prerequisites:

- A. 2.00 overall grade-point average
- B. College rank: juniors (60 s.h.)
- C. Completed 35 semester hours of family and consumer sciences courses including FCS 4400 (except 24 semester hours for family and consumer sciences education majors)
- D. Internship proposal fully approved
- E. Major courses completed:
 1. Apparel Design and Merchandising: FCS 1000, FCS 1001, FCS 2000, FCS 3002, FCS 3003, FCS 4004; ACC 2100; ECO 2030; MKT 3050
 2. Child Development: FCS 2101, FCS 2103, FCS 2104, FCS 3101, FCS 3106; NUT 2201; SPE 3100
 3. Family and Consumer Sciences Education: 24 semester hours in family and consumer sciences completed

Graded on an S/U basis. Hours requirement for three credit hours is 120 hours with 40 hours required for each additional credit.

Department of Human Development and Psychological Counseling (HPC)

Lee Baruth, Chair

*Sally S. Atkins
Karen L. Caldwell
Catherine R. Clark
Cynthia S. Crawford
Keith M. Davis*

*Christina R. Galvin
Elizabeth G. Graves
Nikolas A. Jordan
James M. Lancaster
Jena E. Leake*

*Geri A. Miller
Diane M. Waryold
Laurie L. Williamson
Jon L. Winek*

The Department of Human Development and Psychological Counseling is responsible for organizing and providing instructional programs in counseling and other human development functions for public schools, colleges/universities, and various agencies.

The department offers courses of instruction leading to a Master of Arts degree with the following options:

1. The Clinical Mental Health Counseling program is designed to prepare counselors and other “helping” professionals to work in a wide variety of human service agencies (including mental health centers, social service agencies, business and industry employee assistance programs, etc.) Degree concentrations include: Addictions Counseling; Marriage and Family Counseling; Expressive Arts Therapy; Clinical Mental Health Counseling, General; and Body Centered Therapy.
2. The Professional School Counseling program (K-12) is designed to meet North Carolina licensure requirements and to prepare counselors for elementary, middle, and secondary schools.
3. The College Student Development program is designed to prepare student development specialists to work in a variety of areas (residence life, career development, student activities, leadership, academic advising, etc.) within colleges and universities. Degree concentrations include: College Outdoor Program Administration, and Student Affairs Practice.
4. The Marriage and Family Therapy program is designed to prepare counselors to work specifically with families in a wide variety of work settings. The program meets the educational requirements for clinical membership in the American Association for Marriage and Family Therapy (AAMFT), and North Carolina licensure.

The master’s degree programs in Clinical Mental Health Counseling and Professional School Counseling are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body. Graduates are immediately eligible to take the examination of the National Board for Certified Counselors, Inc., to become National Certified Counselors. The program in College Student Development (Student Affairs Practice concentration) is designed to meet the curriculum guidelines of the Council for the Advancement of Standards in Higher Education (CAS). The Professional School Counseling program is also accredited/approved by the National Council for Accreditation of Teacher Education (NCATE) and the North Carolina Department of Public Instruction. The Marriage and Family Therapy Program is accredited by the Commission on Accreditation for Marriage and Family Education of the American Association for Marriage and Family Therapy, 1133 Fifteenth Street, N.W., Suite 300, Washington, DC 20005-2710, (202) 452-0109.

All courses are taught from a multicultural perspective which emphasizes the differing experiences, cultures, histories, and perspectives of people from a variety of ethnic, gender, racial, and social class backgrounds.

The department also provides group methods, human relations, and other human development courses at the graduate and undergraduate levels for the Reich College of Education and the University. These courses are valuable for majors in other departments. A course in life and career planning and courses in leadership development are offered for undergraduate students. The department offers a variety of summer institutes to enhance the learning of both graduate students and practitioners seeking continuing education opportunities in human service fields.

A student proposing to major in any of the degree programs or to seek licensure through the department must be fully admitted as degree seeking. Students must also complete a departmental questionnaire as part of the application process. See the *Graduate Bulletin* for the requirements of each degree program.

Minor in Leadership Studies (429/13.1102) (18 semester hours)

In collaboration with the Center for Student Involvement and Leadership, the Department of Human Development and Psychological Counseling offers an undergraduate minor in Leadership Studies.

The program of study is available at: www.programsofstudy.appstate.edu/leadership-studies-minor-429-2012-2013

Courses of Instruction in Human Development and Psychological Counseling (HPC)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

HUMAN DEVELOPMENT AND PSYCHOLOGICAL COUNSELING (HPC)

HPC 2200. Life/Career Planning (3).F;S.

This individually oriented study helps students consider those career choices and related factors contributing to satisfaction and happiness in life. The process of decision making, goal setting and self-management by objectives will be studied in order for the student to plan systematically for a career.

HPC 2700. Principles of Leadership (3).F;S.

Designed to introduce students to models and theories of leadership and to create an understanding of and an appreciation for the increasing complexity of leading diverse organizations. The course will provide students with opportunities for self-discovery, personal growth and skill development through active learning and group discussions.

HPC 3150. Peer Leader Seminar (3).F.

This seminar course prepares Peer Leaders for their role in the Freshman Seminar class (US 1150) and provides important skills that can be applied in any leadership setting. Focuses on public speaking and group facilitation skills, leadership, and helping skills. Open only to Freshman Seminar Peer Leaders. (SPEAKING)

HPC 3390. An Introduction to and Procedures in the Helping Professions (3). On Demand.

Historical, philosophical, and legal aspects of the helping professions. Emphasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed.

HPC 3400. Resident Assistant Development (3).F;S.

Designed to enhance the personal and professional growth of resident assistants. Emphasis is given to the residential living/learning environment and related student development theory; leadership development and styles; communication skills/styles; and situational topics relative to the resident assistant position. Open only to approved prospective or current Appalachian resident assistants.

HPC 3500. Independent Study (1–4). On Demand.

HPC 3520. Instructional Assistant (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

HPC 3530–3549. Selected Topics (1–4). On Demand.

HPC 3700. Applied Leadership Development in Student Organizations (3).F;S.

Designed to study the component parts of organizational leadership while assisting leaders in various student clubs and organizations to develop further their leadership skills. The course format will combine instruction, discussion, and experiential learning in order to bridge the appropriate theories with the reality of organizational leadership. The course is limited to students in existing club/organization leadership roles.

HPC 4300. Advanced Student Leadership Development (3).F.

Designed for designated student body officers/leaders to develop and practice their leadership capabilities. It combines the theoretical understanding through the classroom setting with the practical concepts through a practicum. Emphases include an understanding of the University community, clear organizational goals, advanced leadership concepts, and related topics/issues. The course is limited to those invited and approved by the instructor.

HPC 4570. The Addictive Process (3).F;S.

An examination of sociological and psychological contributors to alcohol and drug addiction and abuse in our society. The addictive process and its impact on the individual and society are described, as well as treatment and prevention program efforts. Students will also examine their own feelings and attitudes about alcohol and drug use and abuse. [Dual-listed with HPC 5560.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HPC 4700. Capstone Seminar in Leadership (3).S.

This course is the capstone course for the undergraduate minor in Leadership Studies. It provides students with the opportunity to synthesize their minor coursework and their co-curricular involvement, and it also provides students with the opportunity to develop

high level leadership skills such as consensus building and ethical decision-making. Prerequisites: HPC 2700, senior standing, and consent of the instructor.

HPC 4710. Teaching Sex Education within a Family Context (3).F.

This course is designed to help health educators learn and develop strategies for teaching family living and sexuality to different age groups such as elementary, middle grades, secondary and adults. Topics to be included are reproductive anatomy, physiology, STDs and AIDS, varying cultural differences, and gaining community support. Each student will be responsible for developing appropriate curricular materials for the age group she or he will be teaching. (Same as HED 4710/HED 5710.) [Dual-listed with HPC 5700.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HPC 4790. Group Methods and Processes (3).F;S.

A study of group dynamics, experimentation in groups, leadership roles, and applicability to other settings. [Dual-listed with HPC 5790.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HPC 4800. Basic Dream Interpretation (3). On Demand.

A review of C.G. Jung's life and the development of analytical psychology. This review includes the beginning and expansion of his analytical approach to dream analysis. Special attention will be given to the structure of dreams, dream images and how dreams relate to the life of the dreamer. Students will begin to explore their dreams via the analytical method.

HPC 4840. Human Relations and Interaction (3).F;S.

Examines the key elements in effective interpersonal communication. Students will be exposed to one or more human relations models that are designed to improve their communication skills. Emphasis will be given to applying constructive methods of human relations in a variety of settings including business, schools, and social service agencies. [Dual-listed with HPC 5840.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HPC 4900. Internship in Public Schools (1–9). On Demand.

Designed for school counselor graduate students who do not possess an "A" teaching license and who must have an extended internship in a public school setting prior to obtaining an "M" license. Each internship is arranged and coordinated on an individual basis consistent with state policies. This course will be limited to students accepted into the school counselor program and the course credit will not count toward the graduate degree. Graded on an S/U basis. [Dual-listed with HPC 5000.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of Leadership and Educational Studies (LES)

Robert L. Sanders, Chair

Roma B. Angel

Kim E. Becnel

Leslie Bolt

Barbara S. Bonham

Hunter R. Boylan

Amelia W. Cheney

Kelly Clark-Keefe

Charles S. Claxton

Michael W. Dale

Laura A. DeSisto

William M. Gummerson

David R. Hostetler

Barbara B. Howard

Richard D. Howe

Alecia Youngblood Jackson

W. Thomas Jamison

Kenneth D. Jenkins

C. James Killacky

Nita J. Matzen

George A. Maycock

Terry W. McClannon

Vachel W. Miller

Precious Mudiwa

Peter J. Nelsen

George H. Olson

Patrick M. O'Shea

Christopher R. Osmond

Alvin C. Proffit

Bobby H. Sharp

John H. Tashner

Krista P. Terry

Amy R. Trawick

Carol A. Truett

Gayle M. Turner

Linda A. Veltze

Paul R. Wallace

Stephen R. White

Brandy S. Wilson

The Department of Leadership and Educational Studies serves the education community and the public through:

- foundations of education courses for teacher education majors
- research courses to help students develop skills and knowledge needed to understand the design, implementation and evaluation of educational research
- graduate programs in public school administration; community college and higher education administration and teaching, developmental education and adult education; library science; and educational media/instructional technology

The Master's degree programs are described as follows:

Educational Media (M.A.) (437*/13.0501) and (434*/13.0501) is an interdepartmental program in the Department of Leadership and Educational Studies and the Department of Curriculum and Instruction which offers a choice of five concentrations:

- (a) Instructional Technology Specialist/Computers (437D)[T]
- (b) Instructional Technology Specialist/Computers, General (437E)
- (c) Instructional Technology Specialist/Media Literacy (434G)
- (d) Instructional Technology Specialist/Media Production (434F)
- (e) Instructional Technology Specialist/New Media and Global Education (434H)

Graduates of the program will be prepared to assume leadership roles in various fields of media and technology.

Higher Education (M.A.) (454*/13.0406) prepares students who wish to work in postsecondary institutional settings. Students must select one of the following concentrations: Adult and Developmental Education (454F), Community College and University Leadership (454G), or Teaching (454E). The teaching concentration (454E) is designed to prepare students to teach in two-year community colleges and four-year institutions. The degree in Higher Education does not lead to North Carolina public school teaching, administration, or supervision licensure.

Library Science, General (MLS) (465*/25.0101) is approved by the North Carolina State Department of Public Instruction and reflects Media Coordinator (School Librarian) competencies required by the state as well as Public Librarian Certification competencies of the North Carolina Public Librarian Certification Commission, depending on the concentration pursued by the student. Completion of the School Libraries concentration (465B)[T] entitles the graduate to apply for licensure (076 Media Coordinator) from the State of North Carolina. Completion of the Public Libraries concentration (465C) entitles the student to apply for Public Librarian Certification from the North Carolina Public Librarian Certification Commission.

School Administration (MSA) (433A/13.0409)[T] prepares persons for a school principalship at all levels of public schools. Such a program leads to initial licensure as a school administrator in North Carolina. It is designed to prepare entry level leaders in the governance and administration of the public schools. The focus is essentially directed toward site-based administration.

The Education Specialist degree in the Department of Leadership and Educational Studies is a 30-semester hour degree program offered in the following areas:

Educational Administration (Ed.S.) (428A/13.0401)[T] provides advanced graduate work for public school administration. This degree leads to sixth-year licensure as a superintendent.

Higher Education (Ed.S.) (455*/13.0406) provides advanced graduate work beyond the M.A. degree for professionals in the area of postsecondary education. This degree is for individuals interested in advancing their careers, preparing for a doctoral program, or

expanding their professional area to include one of three concentrations. Students must select one of the following concentrations: Adult and Developmental Education (455F), Community College and University Leadership (455G), or Teaching (455E). The degree in Higher Education does not lead to North Carolina public school teaching, administration, or supervision licensure.

A student working toward a degree and/or licensure in the Department of Leadership and Educational Studies must develop her/his Program of Study in consultation with an approved advisor. Candidacy forms must be submitted to the Office of Graduate Studies and Research before the student has completed 12 semester hours of course work. Degree students taking courses without being officially assigned an advisor and receiving the advisor's approval do so at the risk of not having the courses approved as part of the degree program.

Consult the *Graduate Bulletin* for further information.

Courses of Instruction in Foundations of Education (FDN) and Research (RES)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

FOUNDATIONS OF EDUCATION (FDN)

FDN 2400. Critical Perspectives on Learning and Teaching (2).F;S.

Learning and teaching and the relations between learners and teachers are inherently moral, intellectual, and emotional. Beginning with the deceptively simple questions *Why Learn?* and *Why Teach?*, this course provides students with the opportunity to explore such questions in the context of what education should mean for democratic life. Examining schooling from the perspective of the reflective practitioner, the course helps students inquire into and voice understandings of the varied ways that social, cultural, and political issues impact teaching and learning, especially the intersections of race, class, gender, sexuality and religion. Students and professors will work together to develop specific questions that will guide students as they engage in an inquiry project in a school or in the community. The ability to ask and answer questions is fostered throughout the course and is put into practice in the inquiry project. Lecture two hours, laboratory one hour. Must be taken prior to admission to teacher education. Prerequisite or corequisite: CI 2300. May also be taken concurrently with PSY 3010. (CROSS-DISCIPLINARY)

FDN 3015. Developing and Using Classroom Assessments (2).On Demand.

An overview of the basic concepts used in developing and using classroom assessments. Students are introduced to strategies used to set objectives and assess student learning including traditional, authentic, and performance techniques. Topics include: test item construction, test score statistics, item analysis, standardized tests, and grading and reporting to parents. Effective assessment strategies are modeled and applied to educational settings in North Carolina. Links quality assessment to effective teaching and effective schools. (Same as CI 3015.)

FDN 3100. Classroom Use of Microcomputers in Grades K-12 (2).F;S.

An introduction to the applications of microcomputer technology in instructional settings. Topics included are popular computer systems used in schools; word processing; data storage and retrieval; software evaluation, selection and use; and computer languages designed for classroom instruction. (COMPUTER)

FDN 3500. Independent Study (1–4).F;S.

FDN 3520. Instructional Assistance (1). On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

FDN 3530–3549. Selected Topics (1–4). On Demand.

FDN 4200. Psychology of Reading for the Classroom Teacher (3). On Demand.

Provides classroom teachers with a comprehensive overview of modern learning theories as they apply to the psychology of reading behavior and the psychology of reading instruction. The course is organized in such a way that students are guided into critical evaluation and analysis of reading practices in relation to prevalent theories of learning. Students are encouraged to formulate ways in which learning theories can be translated into reading behavior and used to develop teaching strategies for teaching instruction.

FDN 4800. Education of the Culturally Diverse (3). On Demand.

A general survey of situations encountered by the teacher in a culturally diverse society. As emphasis on the development of the empathetic teacher and the creation of teacher strategies and materials. Open to graduates and seniors. [Dual-listed with FDN 5801.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

FDN 4810. Education in Appalachian America (3). On Demand.

A course designed to assist the teacher of mountain children in understanding the pupil and school in the Appalachian culture. Various Appalachian cultural descriptors and their effect on schooling will be discussed with attention to the creation of teaching strategies and materials. Open to graduates and seniors. [Dual-listed with FDN 5810.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

RESEARCH (RES)

RES 4600. Educational Statistics (3).F;S.

A study of descriptive statistics, correlational techniques, and simple regression as applied to practice and research in education and counseling. Instruction in and extensive use of SPSS statistical package included. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with RES 5600.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of Reading Education and Special Education (RESE)

Monica A. Lambert, Chair

Charles R. Duke

Elizabeth M. Frye

J. Thomas Gill

Connie R. Green

Elin M. Hoffman

David A. Koppenhaver

Larry J. Kortering

Michael J. Marlowe

Rose Marie Matuszny

Carla K. Meyer

Darrell Morris

Ellen Pesko

Susan Mayfield Pogoloff

Sharon M. Richter

Robert C. Schlagal

Dean A. Schofield

Rebecca K. Shankland

Trevor T. Stewart

Woodrow R. Trathen

Constance J. Ulmer

Christopher L. Van Loan

Devery Mock Ward

Margaret G. Werts

The Department of Reading Education and Special Education includes professionals in reading and special education. This enables the department to provide innovative programs focusing, in a transdisciplinary fashion, on all facets of language, reading and specific areas of exceptionality. All students pursuing programs in the Department of Reading Education and Special Education must meet all requirements for admission into the Reich College of Education.

The Department of Reading Education and Special Education offers the following undergraduate degree program:

Bachelor of Science degree in Special Education (478*/13.1011)[T] (with concentrations in Adapted Curriculum K-12 (478C)[T] and General Curriculum K-12 (478B)[T])

For information on the graduate programs in the Department of Reading Education and Special Education, please consult the current *Graduate Bulletin* or contact the department chair.

Reading Education

The responsibility for all undergraduate reading and language arts courses is maintained by the Reading and Language Arts Program in the Department of Reading Education and Special Education. These include courses required of all majors in child development (RE 3902), elementary education (RE 3030, RE 3240, RE 4030), health education (RE 4630), business education (RE 4630), middle grades education (RE 3150, RE 4630), secondary education and special areas (RE 4620 or RE 4630), and special education (RE 3900, RE 4710, RE 4620). Students should consult their advisor for any revisions in their program major. For students interested in North Carolina licensure in reading (K-12), the Reading and Language Arts Program offers an MA program in reading as well as courses leading to add-on licensure. Please consult the *Graduate Bulletin* for information.

Bachelor of Science degree in Special Education (478*/13.1011)[T]

(with concentrations in Adapted Curriculum K-12 and General Curriculum K-12)

The Department of Reading Education and Special Education offers the Bachelor of Science degree in Special Education (478*/13.1011)[T] with concentrations in Adapted Curriculum K-12 (478C)[T] and General Curriculum K-12 (478B)[T]. Completion of this degree leads to certification in either Special Education: General Curriculum K-12, or Special Education: Adapted Curriculum K-12, depending upon the concentration chosen. Included in the requirements for this degree are two internships and a 15-week student teaching placement. All students majoring in special education will be placed in one of the following school districts for all field-based activities: Alexander, Alleghany, Ashe, Avery, Burke, Caldwell, Catawba, Mitchell, Wilkes, or Watauga County.

Note: A comprehensive graduation portfolio is required which demonstrates students' competency at meeting the state certification requirements. The portfolio will be added to throughout the student's program; and during student teaching, the portfolio will be finalized. The student teaching experience will include five on-campus seminars to assist students in meeting these requirements.

Students must choose one of the following concentrations (Adapted Curriculum K-12 or General Curriculum K-12). A student may elect to complete both concentrations, with the understanding that additional course work will be required.

Adapted Curriculum K-12 concentration (478C)[T]

This concentration will prepare students to teach students in grades K-12 who will likely require more significant modifications and adaptation in order to access the general curriculum, and may not be candidates for a career prep, college/tech prep, or college prep diploma from the North Carolina Public Schools. These would include students with mental retardation, emotional/behavioral disorders, autism, and other health impairments, and others.

The program of study is available at: www.programsofstudy.appstate.edu/special-education-bs-adapted-curriculum-k-12-478c-2012-2013

or

General Curriculum K-12 concentration (478B)[T]

This concentration will prepare students to teach students in grades K-12 who will likely be expected to complete the general

curriculum requirements for a career prep, college/tech prep, or college prep diploma from the North Carolina Public Schools. These would include students with learning disabilities, mental retardation, emotional/behavioral disorders, traumatic brain injury, other health impairments, and others.

The program of study is available at: www.programsofstudy.appstate.edu/special-education-bs-general-curriculum-k-12-478b-2012-2013

Special Education, General Minor (487/13.1001)

A student may earn an undergraduate minor in Special Education which generally consists of a minimum of 15 semester hours of credit from courses offered by the special education program. Each minor is individually designed by the student and the coordinator of the special education program. Students must design the minor prior to the last two semesters of residence at Appalachian, and they must seek approval from their home college prior to contracting for the minor in special education.

The program of study is available at: www.programsofstudy.appstate.edu/special-education-general-minor-487-2012-2013

Bachelor of Science degree in Child Development: Birth Through Kindergarten (B-K Licensure)

The Departments of Family and Consumer Sciences; Curriculum and Instruction; and Reading Education and Special Education cooperate to offer the **Bachelor of Science degree in Child Development: Birth Through Kindergarten (524A/13.1209) [T] leading to teacher licensure**. The degree is conferred by the Department of Family and Consumer Sciences.

The program of study is available at: www.programsofstudy.appstate.edu/child-development-birth-through-kindergarten-bs-524a-2012-2013

Courses of Instruction in Reading (RE) and Special Education (SPE)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

READING (RE)

RE 1010. Power Reading (1).F;S.

This course is an elective course designed to provide college students with strategies and applied practice to read different types of texts as efficiently as possible. Effective readers must adjust and adapt their reading speed and strategies to fit the purpose of the reading. Students practice methods to scan and skim as well as reading comprehension strategies to help them when they need to read closely to retain more complex material. RE 1010 may be repeated for a total credit of two semester hours.

RE 2500. Independent Study (1-4).F;S.

RE 3030. Foundations of Literacy (3).F;S.

This course focuses on early reading and writing development (K-3). Students will explore critical issues of literacy acquisition, assessment, instruction, and intervention. Special attention will be given to effective methods for reading, writing, and word knowledge instruction, including materials, strategies, and organization to meet the needs of all learners. Selected assessment and instructional activities will be designed for implementation with elementary students during field placement experiences.

RE 3070. Media for Young People (3).S.

Survey of literature, films and television for adolescents; criteria for selection and use; methods of encouraging critical use of media by young people.

RE 3142. Language and Literature in the Elementary School (4). On Demand.

A study of communication skills in the elementary school curriculum with emphasis on language arts and children's literature. (Same as CI 3142.) (WRITING)

RE 3150. Language Arts in the Middle Grades (3).F.

A study of communication skills (speaking, reading, composition, and related components) where the language arts are viewed as the core of middle grades curriculum. Students learn how to design learning environments which promote meaningful engagement in developmentally appropriate communication skills. Emphasis is given to instructional activities that focus on a process approach to learning. This course includes internship experiences in professional development schools. (WRITING)

RE 3240. World Literature for Children (3).F;S.

Students will read and analyze translations and other children's books in English from countries around the world. Literary analysis of the books will form the basis for comparing and contrasting cultures, historical periods, and differing national worldviews of childhood. Other issues such as racism and sexism will also be examined. (Same as ENG 3240.) (WRITING; MULTI-CULTURAL)

RE 3500. Independent Study (1–4).F;S.

RE 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for total credit of three semester hours.

RE 3530–3549. Selected Topics (1–4). On Demand.

RE 3900. Principles of Reading Instruction for the Classroom Teacher (3).F;S.

This course is a major professional course which prepares teachers to teach reading in grades K-12. Knowledge objectives of the course focus on the developmental nature of language and reading ability, along with some major issues and instructional materials and practices associated with reading instruction. Performance objectives are designed to develop skills in (1) diagnosing individual differences, (2) setting goals and objectives for reading instruction, (3) evaluating reading behavior, (4) developing instructional strategies, and (5) utilizing resources for reading instruction. (This course may be used to meet licensure requirements for teachers in grades K-6, and in special education.)

RE 3902. Emergent Literacy (3).F;S.

This course prepares early childhood educators and reading specialists to understand and facilitate the literacy development of young children. Emphasis will be placed on oral language development, beginning reading and writing, and literature for the very young. (SPEAKING)

RE 4030. Development of Literacy for Learning (3).F;S.

This course further develops issues covered in RE 3030, Foundations of Literacy, with special attention to upper elementary grades (3-6). Topics explored in this course include reading comprehension and vocabulary development, instructional strategies to promote development in all language arts (reading, writing, listening, speaking, visually representing), and effective methods to integrate language arts across the curriculum. Several projects will be developed for implementation during the field experience to put into practice concepts and strategies learned in the course. Prerequisite: RE 3030, Foundations of Literacy.

RE 4300. Literacy, Language, and Culture in Middle Grades Education (3).F.

Prospective middle grades teachers will have the opportunity to learn about the foundational and current issues and methods of instruction regarding literacy education at the middle grades level. Emphasis is placed on the politics of language and identity, socio-cultural contexts for adolescent literacy development, diverse literacy learners, and effective instructional strategies. Students enrolled in the course learn to assess students' literacy needs and acquire knowledge of a range of practices that support the literacy development of young adolescents. Prospective middle grades teachers will work with cooperating public school teachers to plan and implement literacy strategies and assessments in middle grades classrooms. (Same as CI 4300.)

RE 4620. Reading Instruction in the Middle/Junior and Senior High School (3).F;S.

In addition to covering the content and skills presented in RE 4630, this course covers the following: (1) the developmental reading program, (2) organizing and administering the high school reading program, (3) reading interests and tastes, (4) providing reading instruction for special groups, (5) meeting needs of the individual reader. (WRITING)

RE 4630. Reading in the Content Areas (2).F;S.

This course prepares content area teachers to utilize reading as an instructional process in their classrooms. In addition, reading is used to gain perspective on broader learning processes. Course topics include: (1) classroom assessment procedures, including textbook evaluation and selection, and classroom diagnostic techniques; (2) accommodating individual differences; (3) general lesson and unit planning strategies; (4) focused instructional strategies, which include specific teaching activities for reading and learning. (This course may be used to meet licensure requirements for secondary (9-12) and special subject (K-12) teachers who teach subjects such as English, social studies, math, science, biology, health and physical education, sociology, geography, business, music, art, and so on.)

RE 4640. Workshop in Teaching Reading (2).SS.

RE 4650. Linguistics and Reading (3).F.

Relates these areas of linguistics to the process of reading: phonetics, syntax, semantics, rhetoric and dialect.

RE 4710. Diagnosis and Remediation of Reading Problems (3).F;S.

Prepares students to administer and interpret commonly used informal reading tests and to plan appropriate instruction for different types of remedial readers.

RE 4720. Diagnostic and Remedial Reading I (3).F;S.

The course deals with commonly used reading tests and how to locate causes of reading difficulties and to prescribe corrective procedures for the severely disabled reader. Prerequisites: RE 3900, RE 4620 or RE 4710.

RE 4730. Diagnostic and Remedial Reading II (3).F;S.

Students are assigned to individual or small groups for diagnostic and remedial teaching. Prerequisite: RE 4720.

RE 4904. Field Experience (3).F.

Students register only by permission of the advisor in reading. Graded on an S/U basis.

SPECIAL EDUCATION (SPE)

SPE 2500. Independent Study (1–4).F;S.

SPE 3000. Learner Diversity: Teaching English Language Learners (3).F;S.

This course examines current literature and instructional practices related to working with English language learners (ELLs) in mainstream classrooms, especially in the areas of understanding cultural differences, and developing language and content learning. Emphasis is placed on developing positive dispositions towards and empathy for the challenges faced by linguistically diverse students and their families. Instructional strategies and interventions will be observed, modeled, discussed, and analyzed. Coursework is integrated with K-6 field experiences to provide real-world contexts for classroom instruction and discussion. (Same as CI 3000.)

SPE 3100. Introduction to Special Education (3).On Demand.

This course provides an overview of disabilities as well as the services available to persons with disabilities through special education in public schools and through other institutions, agencies, and professionals. For special education majors, this course is prerequisite to admission to the program.

SPE 3104. Practicum I (3).S.

This practicum is designed to provide opportunities for students to plan and implement developmentally appropriate learning environments, learning experiences, and interactions with children and their families. In addition, students are required to demonstrate a basic level of reflection and professional behavior. Students in this practicum will be required to work with children ages birth-2 or 3-5 years of age. The practicum consists of a minimum of 150 contact hours in a program serving young children. Periodic seminars will be required. Prerequisite: consent of the instructor. Graded on an S/U basis. (Same as CI 3104/FCS 3104.) (WRITING; CROSS-DISCIPLINARY)

SPE 3105. Practicum II (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This practicum is designed to build on and extend competencies learned in Practicum I. Students in this practicum will be required to work with children ages birth-2 or 3-5 years of age, depending on prior practicum placement. Students also will be required to plan and implement developmentally appropriate environments, learning experiences, and interactions with children and their families. In addition, students will be expected to demonstrate an advanced level of reflection and integration, as well as appropriate professional behavior. The practicum consists of a minimum of 150 contact hours in a program serving young children. Periodic seminars will be required. Prerequisites: FCS 3104/CI 3104/SPE 3104 or permission of the instructor; and ENG 2001 or its equivalent. Graded on an S/U basis. (Same as CI 3105/FCS 3105.) (WRITING; CROSS-DISCIPLINARY)

SPE 3272. Developmental Assessment and Program Evaluation for Programs Serving Preschool and Kindergarten Children (3).S.

This course will introduce the basic concepts involved in formal and informal observation approaches for infants, toddlers, preschoolers and families. Skills in observation, data collection, analysis of data, and uses of data will be developed. Cultural and experiential influences will be considered. Prerequisite: FCS 2104 or approval of the instructor.

SPE 3273. Educational Assessment and Intervention for Infants with Disabilities and their Families (3).F.

Provides for information and skill development in assessment and program service development for infants with disabilities and their families. Service coordination and transdisciplinary intervention with families will be addressed. Prerequisite: FCS 2101 or approval of the instructor.

SPE 3300. Creating Inclusive Learning Communities (3).F;S.

This course will prepare 21st century teacher education candidates in all disciplines and grade levels to create inclusive learning communities for all students. 21st century teacher education candidates will recognize and accommodate the individual needs of students from differing abilities, backgrounds, and cultures. The course will inform teacher education candidates of the legal

requirements and issues, evaluation procedures, individualized instruction, assessment, and strategies for including students with disabilities and from diverse backgrounds in inclusive education environments, with an emphasis on Universal Design for Learning, self-determination, and assessing student progress. A grade of "C" (2.0) or higher must be earned. Forty (40) hours of field experiences are required. Prerequisites: CI 2300, FDN 2400, PSY 3010, and admission to teacher education. (WRITING)

SPE 3350. Characteristics, Theories, and Diagnosis of Students with Learning Differences: General and Adapted Curriculum (3).F;S.

This is a course in the education of students with learning differences. This course studies the definition, identification, characteristics, and etiology of persons with learning differences. This course also includes current educational planning, programs, and theories related to the field.

SPE 3360. Psychoeducational Strategies with Special Needs Learners: General and Adapted Curriculum (3).F;S.

A survey of the psychoeducational management of children with disabilities in both the general and adapted curriculum. Emphasis is placed upon affective considerations, models of interventions, instructional planning, and classroom practices. (WRITING)

SPE 3370. Characteristics, Theories, and Diagnosis of Students with Cognitive Differences: General and Adapted Curriculum (3).F;S.

An introductory course in the education of students with cognitive differences. Emphasis will be placed on definition, etiology, prevalence, and characteristics. This course also includes service delivery, roles of various professionals, current trends, and philosophies related to persons with mental retardation.

SPE 3374. Assessment in Special Education (3).F.

The basic principles of assessment as they relate to referral and evaluation procedures. This course introduces a variety of standardized tests and scoring and interpretation procedures.

SPE 3500. Independent Study (1–4).F;S.

SPE 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for total credit of three semester hours.

SPE 3530–3549. Selected Topics (1–4). On Demand.

SPE 4205. Inclusion (3).F;S.

This course examines inclusion as it relates to students with disabilities and how to integrate them into general education classrooms and K-12 schools. Current issues, collaborative relationships, and effective teaching and modification approaches for all students will be discussed. Prerequisite: SPE 3100 or permission of the instructor. [Dual-listed with SPE 5205.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SPE 4215. Strategies for Teaching Mathematics to Students with Disabilities (3).F.

The purpose of this course is to teach principles of remediation in mathematics to students with disabilities. Throughout the course, emphasis is placed on instructional modifications for establishing a remedial instruction program in mathematics. Students will become familiar with and implement scientifically-based instructional approaches. This course must be taken concurrently with SPE 4225, SPE 4405, SPE 4496, and SPE 4705 by students majoring in Special Education with a concentration in General Curriculum K-12; and concurrently with SPE 4225, SPE 4410, SPE 4420, and SPE 4496 by students majoring in Special Education with a concentration in Adapted Curriculum K-12.

SPE 4225. Collaborative Relationships in Special Education (3).F.

This course examines the following areas in special education: self-determination and Person Centered Planning; collaborating with families, employers and adult service providers; and transition and secondary special education issues. This course must be taken concurrently with SPE 4215, SPE 4405, SPE 4496, and SPE 4705 by students majoring in Special Education with a concentration in General Curriculum K-12; and concurrently with SPE 4215, SPE 4410, SPE 4420, and SPE 4496 by students majoring in Special Education with a concentration in Adapted Curriculum K-12.

SPE 4405. Strategies for Students with Disabilities: General Curriculum (3).F.

This course provides information on cognitive and metacognitive strategies with emphasis on how to assess, plan, design, and implement strategies for K-12 students with disabilities. There is a focus on writing strategies instruction. This course is required for students seeking Special Education: General Curriculum licensure, and must be taken concurrently with SPE 4215, SPE 4225, SPE 4496, and SPE 4705.

SPE 4410. Assessment and Curriculum: Adapted Curriculum (3).F.

This course examines current issues and methods related to assessment, personalized curriculum development, and the planning, implementation, and evaluation of instruction of students with moderate and severe disabilities. This course is required for students majoring in Special Education with a concentration in Adapted Curriculum K-12, and must be taken concurrently with SPE 4215, SPE 4225, SPE 4420, and SPE 4496.

SPE 4420. Methods for Students with Disabilities: Adapted Curriculum (3).F.

This course is designed to examine scientifically-based methods for instruction and the implementation of these methods in the planning and delivery of instructional and behavioral programs for students in special education. This course is required for students majoring in Special Education with a concentration in Adapted Curriculum K-12, and must be taken concurrently with SPE 4215, SPE 4225, SPE 4410, and SPE 4496.

SPE 4430. Positive Behavior Supports: Adapted Curriculum (3).S.

This course examines positive behavior supports and the behavioral interventions that are guided by functional assessment and focus on generalized outcomes. The skills learned in this course emphasize the use of a collaborative problem-solving process to develop individualized interventions that stress prevention and remediation of problem behaviors through the provisions of effective educational programming. This course is required for students majoring in Special Education with a concentration in Adapted Curriculum K-12, and must be taken concurrently with SPE 4495, SPE 4570, and SPE 4601.

SPE 4495. Practicum I (3).S.

Practicum in schools in the areas listed below according to the chosen concentration. During this course, students will complete portfolio assignments required for graduation. Graded on an S/U basis.

Practicum in General Curriculum: Practicum in K-12 schools with students who are likely to complete the requirements for a career prep, college/tech prep, or college prep diploma from the North Carolina Public Schools. This practicum must be taken concurrently with SPE 4570 and SPE 4601.

Practicum in Adapted Curriculum: Practicum in K-12 schools with students who may not earn a career prep, college/tech prep, or college prep diploma from the North Carolina Public Schools. This practicum must be taken concurrently with SPE 4430, SPE 4570, and SPE 4601.

SPE 4496. Practicum II (3).F.

Practicum in schools in the areas listed below according to the chosen concentration. During this course, students will complete portfolio assignments required for graduation. Prerequisite: SPE 4495, Practicum I. Graded on an S/U basis. (SPEAKING)

Practicum in General Curriculum: Practicum in K-12 schools with students who are likely to complete the requirements for a career prep, college/tech prep, or college prep diploma from the North Carolina Public Schools. This practicum must be taken concurrently with SPE 4215, SPE 4225, SPE 4405, and SPE 4705. (SPEAKING)

Practicum in Adapted Curriculum: Practicum in K-12 schools with students who may not earn a career prep, college/tech prep, or college prep diploma from the North Carolina Public Schools. This practicum must be taken concurrently with SPE 4215, SPE 4225, SPE 4410, and SPE 4420. (SPEAKING)

SPE 4553. Issues in Transdisciplinary Service Delivery (3).S.

This seminar emphasizes the foundations for professional development, positive attitudes toward children and families, and the strong commitment toward continuous, life-long study of young children and their learning. Class discussions and assignments are designed to prepare B-K teachers to participate fully in interdisciplinary and transdisciplinary early childhood teams and to collaborate across agencies dealing with young children and their families. (Same as CI 4553/FCS 4553.)

SPE 4556. Infant/Toddler Curriculum (3).F.

The purposes of this course are (1) to apply the principles of developmentally appropriate practice to planning, implementing, and evaluating curriculum experiences for infants and toddlers; and (2) to develop strategies for integrating a range of developmental needs and disabilities within the planned curriculum. Prerequisites: FCS 2101 and SPE 3273, or consent of the instructor. (Same as CI 4556/FCS 4556.)

SPE 4570. Advocacy and Legislation in Special Education (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course provides information and practice related to the roles and responsibilities of professionals with regard to advocacy and legislative mandates, including the special education process and individual education programs. This course must be taken concurrently with SPE 4495 and SPE 4601 by students majoring in Special Education with a concentration in General Curriculum

K-12; and concurrently with SPE 4430, SPE 4495, and SPE 4601 by students majoring in Special Education with a concentration in Adapted Curriculum K-12. Prerequisite: ENG 2001 or its equivalent. (WRITING)

SPE 4592. Medical Aspects of Disability (3). On Demand.

This course includes a survey of major physical disabilities including cardiovascular disease, diabetes, AIDS, cancer, pain, obesity, eating disorders, and injury using a behavioral medicine orientation. Behavioral medicine represents a multidimensional approach to integrating behavioral and biomedical information in determining disease etiology and in prescribing comprehensive treatment. (WRITING)

SPE 4601. Classroom Management (3).S.

This course provides a study of classroom management techniques and intervention strategies with students with disabilities. This course must be taken concurrently with SPE 4495 and SPE 4570 by students majoring in Special Education with a concentration in General Curriculum K-12; and concurrently with SPE 4430, SPE 4495, and SPE 4570 by students majoring in Special Education with a concentration in Adapted Curriculum K-12.

SPE 4602. Preschool Curriculum and Instruction (3).F.

The purposes of this course are (1) to apply the major cognitive, language, affective, social and physical development theories to curriculum planning and implementation for all young children; and (2) to develop strategies for integrating a range of learning needs and disabilities into the planning and implementation of an early childhood curriculum. Emphasis will be on education services in public schools and other settings serving young children with typical and atypical needs. Prerequisite: SPE 3272, or consent of the instructor. (Same as CI 4602/FCS 4602.)

SPE 4680. Kindergarten Curriculum (3).F.

Designed for both birth-kindergarten and elementary education majors, this course provides information on the history of the kindergarten movement, an overview of development of five and six year olds, classroom organization and management, as well as specific, developmentally appropriate assessments and methods for teaching children in kindergarten. Lecture three hours. Prerequisite: admission to teacher education. (Same as CI 4680/FCS 4680/SPE 4680.)

SPE 4700. Introduction to the Teaching–Family Model (3). On Demand.

An introduction to the philosophy and implementation of the teaching–family model treatment approach. Emphasis will be placed on meeting the needs and remediating problems of the emotionally disturbed and delinquent youth. [Dual-listed with SPE 5700.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

SPE 4705. Methods for Students with Disabilities: General Curriculum (3).F.

This course addresses scientifically-based methods used in the implementation of the general curriculum, K-12. This course is required for students majoring in Special Education with a concentration in General Curriculum K-12, and must be taken concurrently with SPE 4215, SPE 4225, SPE 4405, and SPE 4496.

SPE 4900. Student Teaching in Special Education (6 OR 12).F;S.

GEN ED: Capstone Experience

Teaching experiences under supervision for one semester for students planning to teach special needs students in grades K-12. Graded on an S/U basis.

The College of Fine and Applied Arts

The College of Fine and Applied Arts

Glenda J. Treadaway, Dean

Garner G. Dewey, Associate Dean

In cooperation with other colleges of the University, the College of Fine and Applied Arts strives:

1. To provide for varied interests, desires, needs, and abilities of students
2. To provide a liberal education for all Appalachian students
3. To expand cultural horizons and develop appreciation of ethical and aesthetic values
4. To prepare students for certain professions
5. To prepare students for entrance into certain professional schools
6. To provide sound foundations for students capable and desirous of advanced study
7. To prepare students for graduate study and research

Departments

The College of Fine and Applied Arts consists of the following five departments:

Art	Technology and Environmental Design
Communication	Theatre and Dance
Military Science and Leadership	

NOTE: *Although the requirements for most degree programs at Appalachian can be met within the minimum of 122 semester hours, the student should be aware that certain programs of study require additional hours. Students are advised to check with the department of their intended major early in their studies. Meeting graduation requirements is the student's responsibility.*

Degrees Offered

The College of Fine and Applied Arts offers Bachelor of Arts, Bachelor of Fine Arts, and Bachelor of Science degrees. In cooperation with the Reich College of Education, it offers the Bachelor of Science degree with teacher licensure in Art Education (K-12), Technology Education, and Teaching Theatre Arts, K-12.

To be admitted to the College of Fine and Applied Arts as a candidate for a baccalaureate degree, a student must have:

1. Completed at least 30 semester hours
2. A grade-point average of at least 2.0
3. Obtained credit for ENG 1000 or an equivalent course and obtained credit for or be currently enrolled in UCO 1200 or an equivalent course
4. Been accepted by a department in the College as a major in that department
5. Students moving from University College to the degree-granting department must check with the departmental office for the purpose of being assigned a faculty advisor.

A student who is a candidate for a teaching license must be admitted to the teacher education program by the chair of the Department of Curriculum and Instruction.

Calculation of the GPA (grade-point average) in the MAJOR is figured by using only those courses listed under the "MAJOR REQUIREMENTS" section of each program of study. The repeat rule is observed.

Advisement

Advisement for the College of Fine and Applied Arts is available through each department within the College. Each student should visit the dean's office for a graduation audit one semester prior to graduation.

Bachelor of Arts Degree

To earn a Bachelor of Arts degree in the College of Fine and Applied Arts, students must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements
3. Completion of six semester hours of a second year of foreign language or higher. The Department of Languages, Literatures, and Cultures places students at the level at which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of no more than a total of 46 semester hours from one of the departments listed below:

Art, Theatre and Dance

Students in Art must have a 2.00 grade-point in each ART course required in the major. Students in Theatre and Dance must have an overall 2.00 grade-point average in the major; however, a grade of "B-" minimum is required in certain

The College of Fine and Applied Arts

courses depending upon concentration chosen (see the program of study for specific requirements). Transfer students must complete at least eighteen semester hours of work in their major at Appalachian.

Specific requirements for each departmental major preface the list of courses offered by the department.

5. Completion of a minor consisting of 12 to 20 semester hours from a department other than the Departments of Leadership and Educational Studies; and Human Development and Psychological Counseling. Transfer students must complete at least 9 s.h. in their minor at Appalachian. The choice of a minor should be made under the guidance of the student's advisor.

Specific requirements for each departmental minor preface the list of courses offered by the department.

6. Completion of electives to total 122 semester hours
7. Completion of residency requirements
8. Compliance with regulations concerning the settlement of all expense accounts
9. Recommendation of the faculty

Meeting graduation requirements is the student's responsibility.

Students pursuing the B.A. degree are advised to refer to the section in this *Undergraduate Bulletin* entitled "Credit Limitations" which apply to that particular degree.

A candidate for the Bachelor of Arts degree may qualify for a teacher's license by admission to professional education courses through the office of laboratory experiences in the Reich College of Education and by completing all academic and professional educational requirements for licensure.

Bachelor of Fine Arts Degree

1. Completion of at least 122 semester hours with a cumulative grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements
3. Completion of a major as described by the Department of Art

Students in Art must have a minimum 2.00 grade-point in each ART course required within the major.

Specific requirements for this degree preface the list of courses offered by the department.

Bachelor of Science Degree (without teacher licensure)

To earn a Bachelor of Science degree in the College of Fine and Applied Arts, students must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements
3. Completion of a major as described by the various departments offering Bachelor of Science degree programs without teacher licensure:

Art; Communication; Technology and Environmental Design

Students must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eighteen semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

Specific requirements for each department major preface the list of courses offered by the department.

4. Completion of a minor consisting of 12 to 20 semester hours (unless otherwise designated) and from a department other than the Departments of Leadership and Educational Studies; and Human Development and Psychological Counseling. (Transfer students must complete at least nine semester hours in their minor at Appalachian.) The choice of a minor should be made under the guidance of the student's advisor.

Specific requirements for each departmental minor preface the list of courses offered by the department.

5. Completion of electives to total 122 semester hours
6. Completion of residency requirements
7. Compliance with regulations concerning the settlement of all expense accounts
8. Recommendation of the faculty

Meeting graduation requirements is the student's responsibility.

Bachelor of Science Degree (with teacher licensure)

For the requirements for the Bachelor of Science degree with teacher licensure, refer to the individual departments.

The College of Fine and Applied Arts

Internships

Opportunities are available for students to become involved in internships associated with the academic disciplines represented by all the departments in the College of Fine and Applied Arts. These internships provide students with on-the-job experiences in many areas of endeavor and allow them to earn academic credit which is applicable toward their degree. Students interested in pursuing this valuable educational opportunity should contact either their departmental advisor or the departmental office. Consult the catalog statement which describes the student internship program.

Department of Art (ART)

Roy A. Strassberg, Chair

Lisa M. Stinson, Assistant Chair

Eli Bentor

Christopher M. Curtin

Lynn Duryea

April V. Flanders

Michael Grady

Victoria Grube

Jeana E. Klein

Scott P. Ludwig

(Ara) Ed Midgett

Gary M. Nemcosky

Mark L. Nystrom

Ila S. Prouty

Ali Raza

Alyssia J. Ruggiero

Jody M. Servon

John Stephenson

Jim A. Toub

Heather L. Waldroup

Jason D. Watson

Barbara Yale-Read

Margaret A. Yaukey

The purposes of the Department of Art are: (1) to provide instruction and to promote co-curricular activities which prepare students for careers in the visual arts such as teaching, exhibitions, graphic design, or an arts related field such as arts management; (2) to provide instruction and training in the intellectual and technical skills necessary for studio art production; (3) to promote informed understanding of the value of art and design in contemporary and in historical cultures; (4) to cultivate students' abilities to think creatively and critically when both producing and responding to visual art; (5) to provide instruction and co-curricular activities in the visual arts as a component of the general education program; and (6) to contribute creative work and scholarship to the University community, the arts professions and to society in general.

Admission into Majors in the Department of Art

(B.A. degree students with a concentration in Art History and the B.S. in Art Management students are exempt from all portfolio reviews.)

Admission is competitive and by portfolio review only. Students must formally apply for admittance into the Department of Art through the FOUNDATIONS PORTFOLIO REVIEW. The Department of Art has three formal portfolio reviews that are outlined below. The results of each review are final and cannot be appealed. Information describing the review process is available on the Department of Art website at www.art.appstate.edu (under Admissions).

I. FOUNDATIONS PORTFOLIO REVIEW: All entering students (freshmen, transfers, and others):

All potential art majors should indicate art as their intended major on the University application form which will result in their receiving important Art Department information. All entering students must send a portfolio of no more than ten slides with the completed Foundations Portfolio Form to the Department of Art by the first Wednesday in July and the last Wednesday in March and October. All students should submit to the Foundations Portfolio Review at least one semester prior to entering Appalachian. Whenever possible, this review should take place after the student is formally admitted to Appalachian.

Students not admitted into the Department of Art may enroll in ART 1011, ART 1013, and ART 2016 and may resubmit to the next Foundations Portfolio Review **ONE TIME ONLY**.

II. TRANSFER PORTFOLIO REVIEW (For all transfer students admitted by Foundations Portfolio Review):

All transfer students who wish to pursue an art degree at Appalachian must first be admitted into the Department of Art via the Foundations Portfolio Review (see above). Transfer students must submit to the Foundations Portfolio Review at least one semester prior to enrolling at Appalachian. Admission into the Department of Art is limited and is highly competitive.

All degree tracks in art generally take at least three years to complete. Although most academic/lecture courses easily transfer from one institution to another, a student should not assume studio art courses will always transfer as course credit. They will always transfer as elective credit.

The Transfer Portfolio Review determines whether or not studio art courses taken at another institution or outside the major will count for requirements at Appalachian. To be considered for transfer substitution credit for any studio courses, a portfolio of all artwork from EACH course must be submitted. All deadlines and review considerations may be found on the Department of Art website at www.art.appstate.edu (under Admissions).

The Foundations Portfolio Review and Transfer Portfolio Review information may be found at www.art.appstate.edu (under Admissions).

III. GRAPHIC DESIGN CANDIDACY PORTFOLIO REVIEW (For admittance into the Bachelor of Fine Arts degree in Graphic Design):

Art majors seeking the Bachelor of Fine Arts degree in Graphic Design must submit their work to the candidacy portfolio review in order to gain entrance into the BFA Graphic Design program. This second review usually occurs during a student's third semester at Appalachian (possibly earlier for transfer students), after completion of foundation requirements (ART 1001, ART 1002, ART 1003), ART 1102, ART 2102, and either ART 2030 or ART 2130. Students seeking the BFA degree in Graphic Design

must pass the candidacy portfolio review before taking any 3000 level studio course. Students who do not pass this review may use their earned art credits as electives or as requirements towards another degree in art or towards a minor in art. Students may also repeat courses and/or continue to take 2000 level studio courses and then re-submit their work one time only to the candidacy portfolio review. The candidacy portfolio review takes place on Reading Day at the end of the fall and spring semesters.

Computer requirement: Students who pass the Graphic Design Candidacy Portfolio Review are required to have a laptop computer and software that meets minimum graphic design program specifications. The Art Department will make a certain number of "loaner" computers available to students who demonstrate extreme financial need.

Students majoring in art must make a minimum grade of "C" (2.0) in each required art course. Courses stipulated as prerequisites for subsequent art courses must be successfully completed with a grade of "C" or higher before continuing to the next level of course work.

The Department of Art requires that graduating seniors in the B.A. in Art, the B.F.A. in Studio Art, the B.F.A. in Graphic Design, and the B.S. in Art Education (K-12) exhibit new work with other students during their final spring semester at Appalachian as part of the department's annual Art Expo Competition. The Art Expo Exhibition is scheduled once a year and information concerning particulars is available from the Department of Art upon request.

Newly admitted freshmen and transfer students are advised to attend the Department of Art meeting scheduled during freshmen and transfer orientation sessions. Additional important information is given and all art majors and prospective art majors are assigned an Art advisor.

The Bachelor of Arts degree in Art (504*/50.0701) with a concentration in Art History (504B)

The program of study is available at: www.programsofstudy.appstate.edu/art-ba-art-history-504b-2012-2013

The Bachelor of Arts degree in Art (504*/50.0701) with a concentration in Interdisciplinary Art (504D)

The program of study is available at: www.programsofstudy.appstate.edu/art-ba-interdisciplinary-art-504d-2012-2013

The Bachelor of Arts degree in Art (504*/50.0701) with a concentration in Studio Art (504C)

The program of study is available at: www.programsofstudy.appstate.edu/art-ba-studio-art-504c-2012-2013

The Bachelor of Science degree in Art Education (K-12) (502A/13.1302)[T] (with teacher licensure)

The program of study is available at: www.programsofstudy.appstate.edu/art-education-k-12-bs-502a-2012-2013

The Bachelor of Science degree in Art Management (523A/50.1002)

The program of study is available at: www.programsofstudy.appstate.edu/art-management-bs-523a-2012-2013

The Bachelor of Fine Arts degree in Graphic Design (511A/50.0409)

The program of study is available at: www.programsofstudy.appstate.edu/graphic-design-bfa-511a-2012-2013

The Bachelor of Fine Arts degree in Studio Art (513A/50.0702)

The program of study is available at: www.programsofstudy.appstate.edu/studio-art-bfa-513a-2012-2013

A minor in Art (504/50.0701) WITHOUT PORTFOLIO REVIEW (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/art-without-portfolio-review-minor-504-2012-2013

A minor in Art (504/50.0701) WITH PORTFOLIO REVIEW (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/art-portfolio-review-minor-504-2012-2013

A minor in Art History (505/50.0703) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/art-history-minor-505-2012-2013

Honors Program in Art

The Department of Art offers honors courses to students who have a minimum overall GPA of 3.45 in art courses and/or are nominated by a faculty member, and are invited by the Art Honors Committee. Qualified non-majors may enroll in art honors courses. However, to graduate with "honors in art" a student must be an art major who has completed at least nine semester hours of work in departmental honors courses. Three of the semester hours taken must include ART 4510, Senior Honors Thesis.

Courses of Instruction in Art (ART)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

ART (ART)

ART 1001. Foundations I (3).F;S.

Basic introduction to two-dimensional design emphasizing the structural elements of art, the principles of visual organization, and the psychological effects of visual decision making. Color theory, including schematic uses and historical and psychological aspects, will be explored along with the application of color mixing and color integration. There will be an introduction to the critical and analytical approaches to the visual arts. Prerequisite: portfolio admission into the Department of Art. Studio six hours.

ART 1002. Foundations II (3).F;S.

This course is the second half of an introduction to the structural elements of art. It examines the organizational principles of three-dimensional design and the study of equipment and materials used in this area of art making. Emphasis is on three-dimensional vocabulary, understanding of sculptural space, the use of hand and power tools, materials manipulation, and processes related to three-dimensional art. Prerequisite: ART 1001. Studio six hours.

ART 1003. Foundations Drawing (3).F;S.

An introduction to drawing as a primary means of visual investigation. Major class topics include drawing from observation and visualization (drawing from imagination). Class exercises focus on rendering objects, spaces, and the human figure in basic wet and dry media (graphite, charcoal, and ink). Conceptual and process-centered approaches in contemporary drawing will be introduced. Prerequisite: portfolio admission into the Department of Art. Studio six hours.

ART 1004. Visual Arts Exhibition Guide (1).F;S.

Students will familiarize themselves with current exhibitions of the Turchin Center for the Visual Arts, research aspects of the exhibitions, prepare educational materials, and give tours to groups and individuals. Open to art majors and non-art majors. Lecture/practicum one hour per week. May be repeated for a total of six semester hours credit.

ART 1005. Foundations Seminar (3).F;S.

This course is a global introduction to the theory and practice of the visual arts, and it also introduces students to many of the institutional resources available for the aspiring visual artist. It includes an overview of art world institutions and their relevance to understanding the artist's role in the world today; the relationship among art history, art theory and studio practice; and issues central to attaining professional competency such as preparing artists' statements, documenting one's work, and researching educational and funding sources. Lecture and studio four hours.

ART 1010. Visual Communication (3). On Demand.

This course examines the significance of the image as a vehicle of communication. Concepts and techniques taken from historical as well as from contemporary sources will seek to develop an understanding of the nature of the visual process and its importance in human lives. Studio work will include art experiences designed to increase an understanding of form and of content. Lecture and studio four hours.

ART 1011. Design Fundamentals I (3).F;S.

Basic introduction to two-dimensional design emphasizing the structural elements of art, the principles of visual organization, and the psychological effects of visual decision making. Color theory including schematic uses and historical and psychological aspects will be explored along with the application of color mixing and color interaction. There will be an introduction to the critical and analytical approaches to the visual arts. Studio six hours.

ART 1012. Design Fundamentals II (3).F;S.

Second half of basic studio problems in visual design offering further work with the structural elements and the organizational principles dealing now with three-dimensional design and space. Guided structural analysis will continue in order to develop aesthetic evaluation perceptions and skills. Prerequisite: ART 1011. Studio six hours.

ART 1013. Drawing Fundamentals (3).F.

Introduction to the drawing experience with emphasis on the development of eye/hand coordination and on basic techniques and skills necessary for the interpretation of visual form. Studio six hours.

ART 1020. Core Studio I (3).F;S.

Introduction to two-dimensional studio experience, combining practices in 2D design, drawing, painting, and collage. This course focuses on making and interpreting images through sketch exercises, creative visual research, and long-term mixed media projects. Studio six hours.

ART 1021. Core Studio II (3).F;S.

Introduction to three-dimensional and four dimensional studio practices combining practices in 3D design, object making, and time based media. This course focuses on making and interpreting forms and actions through sketch exercises, creative visual, research, and long-term mixed media projects. Studio six hours.

ART 1102. Introduction to Graphic Design (3).F;S.

This is an introductory level course for students entering the field of graphic design. It involves studio inquiry into the nature of visual communication. The course is structured to foster a personal approach to the design process and the ability to discuss design critically. Topics introduced in the course include typography, symbols, contemporary design practice and the relationship between designer, audience and message. Work produced in this course allows for the discovery of the language, creative problem-solving processes and technologies fundamental to graphic design. Prerequisites: ART 1001 and ART 1003. Studio six hours.

ART 2007. Clay I: Handbuilding (3).F;S.

An introduction to clay as a material and means of expression, with emphasis on the development of content with hand-formed objects. Consideration will be given to ceramic history in relation to contemporary practice. Students will develop critical and reflective thinking skills in relation to their studio production through research, writing, discussions and presentations. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 2008. Fibers: Materials and Processes (3).F;S.

A general introduction to a broad range of basic fibers processes and materials, such as dyeing and block printing, papermaking, felt-making, tapestry and wearables. Emphasis is on the development of technical fibers skills with application to individual works of art and design. Prerequisites: ART 1001, ART 1002, and ART 1003. Studio six hours.

ART 2009. Metalsmithing and Jewelry Design I: Fabrication and Stone Setting (3).F;S.

This course will focus on processes for construction with nonferrous metals. Techniques will include basic fabrication, stone setting, forming and the creation of mechanisms. Prerequisites: ART 1001 and ART 1002. Studio six hours.

ART 2011. Introduction to Visual Arts (3).F;S.

GEN ED: Fine Arts Designation; Local to Global Perspective (Theme: "Identity, Culture, and Media"); Historical and Social Perspective (Theme: "Cultural Diversity")

This course covers selected historical and contemporary issues, the formal structure and critical analysis of the visual arts and an examination of art's relationship to ideas, beliefs and culture. Students will develop a critical understanding of art as a manifestation of broader social, historical, and contemporary issues in a global context. Lecture three hours. (CORE: HUMANITIES)

ART 2016. Introduction to Studio Art (3).F;S.

Studio course for non-art majors, and for art majors concentrating in art history, who wish to pursue the art-making experiences in various studio areas (alloys, clay, fibers, painting, photography, printmaking, and sculpture). Course may be repeated barring duplication of studio area. Studio six hours.

ART 2019. Art for Social Change (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Social Change Through the Arts")

This course combines an introductory studio course with an examination of the way in which art can contribute to social change. Studio assignments will involve students in the investigation, understanding and application of artistic methods and the principles of design while thematically exploring contemporary social issues. Lectures, class discussions and project critiques are geared to develop students' awareness of how art can address social issues. Studio six hours.

ART 2022. Cultivating Creative Expression Through Visual Art (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Cultivating Creative Expression")

Students will create works of visual art in various media, reflecting on the creative process, the influence of culture, and the dynamic and reciprocal interactions among the artist, instructor, and student. Lecture and studio four hours.

ART 2025. Printmaking: Relief (3).F;S.

A general introduction to printmaking: its history, development, techniques, and processes. Various relief printmaking techniques will be explored such as woodcut, linocut, collagraph, and non-traditional methods. Using additive and reductive processes, students work in black and white and in color, learning the registration and printing of multiple matrices. Traditional, contemporary, and experimental approaches are encouraged. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 2026. Photographic Design I (3).F;S.

An introduction to photography. This course offers a foundation in the basic technical skills and aesthetic knowledge needed to create fine art photography. Historical and contemporary issues, critical thinking, and visual analysis will be emphasized through oral discussion and written documentation. A camera is required per the instructor's directions. Prerequisites: ART 1001 and ART 1003, or permission of the instructor. Studio six hours.

ART 2030. Art from Prehistory to 1400 (3).F;S.

GEN ED: Fine Arts Designation; Historical and Social Perspective (Themes: "Ancient Worlds" and "Religion, Myth, and Society")

A global survey of art history focusing on the early visual artistic traditions of Europe, Asia, Africa and the Americas from the dawn of art to 1400. The course examines visual art and art making in religious, social, cultural, and political contexts. Lecture three hours. (MULTI-CULTURAL) (CORE: HUMANITIES)

ART 2040. Clay I: Mold-Making and Casting (3).F;S.

An introduction to the materials and methods particular to the creative use of ceramic mold-making and casting. Students will develop critical and reflective thinking skills with regard to their studio production through research, writing, discussions and presentations. Focus will be on employing ceramic processes and firing methods relevant to content. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 2050. Clay: Methods and Materials (3).On Demand.

This course involves hands-on working experience with ceramic raw materials and the formulation of clay bodies and fired surfaces, with an emphasis on accurate testing and recording methods. Students are expected to assess and apply the results of this materials research to the conceptual development of their work. Prerequisite or corequisite: any level I clay course (ART 2007, ART 2016 in clay, ART 2040, or ART 2107) or permission of the instructor. Studio six hours.

ART 2100. Painting I (3).F;S.

An introduction to the principles of spatial organization and color interaction. Includes exploration of concept, materials and techniques, light, color, form, and space. Prerequisites: ART 1001 and ART 1003. Studio six hours.

ART 2101. Sculpture I: Modeling and Casting (3).F;S.

An introduction to sculptural ideas and concepts developed through modeling in clay, wax and plaster molding processes. An introduction to foundry casting includes basic sand casting and plaster investment processes. Prerequisites: ART 1001, ART 1002 and ART 1003. Studio six hours.

ART 2102. Typography I (3).F;S.

This course concentrates on the study of typography. Course includes a survey of major typographical trends, analysis of letterforms, typesetting methods and the use of type in layout design. Prerequisites: ART 1001 and ART 1003; this course (ART 2102) may be taken at the same time as, but not before ART 1102. Studio six hours.

ART 2103. Drawing II (3).F;S.

An exploration of contemporary drawing practices, focusing on process, experimentation, content development, and refining observational drawing skills. Class projects address creative problem-solving in composition, visualization, and graphic expression. Emphasis is on the figure as a subject matter and drawing from the live model. Introduction to a broader range of drawing media, including color and collage. Prerequisites: ART 1001 and ART 1003. Studio six hours.

ART 2104. Digital Imaging (3).F;S.

This course introduces the student to technical and aesthetic aspects of digital image manipulation for artists and designers. Prerequisites: ART 1001, ART 1002, and ART 1003 (or ART 1011, ART 1012, and ART 1013 for declared art management majors). Studio six hours. (COMPUTER)

ART 2107. Clay I: Throwing (3).F;S.

An introduction to clay as a material, using the potter's wheel as a tool to generate form and express ideas. Technical skill and concept development will be emphasized. Students will develop critical and reflective thinking skills with regard to studio practice

through research, writing, discussions and presentations. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 2125. Printmaking: Screenprinting (3).S.

This course introduces photomechanical screenprinting processes and techniques to create original prints. There is an additional emphasis on color theory for printmaking as well as techniques for creating editions and experimental prints. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 2130. Art from 1400 to the Present (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Traditions and Innovations"); Local to Global Perspective (Theme: "Empire, Colonialism, and Globalization")

A global survey of art history from 1400 to the present examining the later artistic traditions of Europe, Asia, Africa, Oceania and the Americas. The course focuses on visual art and art making in light of changing social, political, religious, and cultural circumstances. Lecture three hours. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

ART 2201. Sculpture I: Carving and Construction (3).F;S.

An introduction to sculptural ideas and concepts developed through carving in stone and wood and additive construction in materials such as welded steel. The student is introduced to the use of specialized hand and power tools including pneumatic chisels and die grinders as well as power sanders and grinders required for shaping and finishing stone, wood and steel. Prerequisites: ART 1001, ART 1002 and ART 1003. Studio six hours.

ART 2222. Introduction to Art Education (3).F.

This introductory course in art education will cover: current practices and philosophies in art education; multiple histories of art education; assessment as artifact; teacher as listener; and the role of materials to support, integrate, and challenge the artistic growth of young people in school. Students will learn how to create a lesson plan based on a provocation in an emergent integrative curriculum. Students will observe different teaching settings with perceptual, societal and artistic analysis implicit in programs observed. Participation in Saturday morning art workshops is expected. Prerequisite: admission into the Art Department.

ART 2230. History of Graphic Design (3).F;S.

A historical survey of visual communication, this course highlights key graphic designers and meta-disciplinary creative thinkers who have shaped significant innovations in the field. Examining relevant artistic, cultural, and technological events provides a context for understanding contemporary graphic design practice. Lecture three hours.

ART 2302. Calligraphy (3).On Demand.

An introduction to hand-lettering. Both monoline and edged-pen lettering styles are studied in their historical context, including Roman capitals, minuscules, and Italic styles. The application of color to letter forms will be examined, as well as various methods of page composition, surface decoration and bookbinding. Prerequisite: ART 1001 or permission of the instructor. Studio six hours.

ART 2420. The Child as Cultural Construct (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Students will study the cultural, empirical, and personal image of the child and how these collective beliefs influence the practice of art education. Specific topics include: recognizing the child as cultural construct, the teacher and child as co-constructors of knowledge, the value of a child's aesthetic, and authentic assessment. The class will be a combination of written responses, class discussions, research observations, technological applications and a community collaborative art experience as it relates to contemporary visual culture, the image of the child and to the child's art making. Theories of art education that illuminate the vital importance of personal experience, public memory, intertextuality, and cultural narrative will be examined. Various models for assessing student performance will be studied with special attention given to creating assessment tools that deconstruct the practice of knower and non-knower and construct practical instruments. Prerequisite: ENG 2001 or its equivalent. (WRITING)

ART 2444. Materials and Processes in Art Education (3).S.

This course will offer an in-depth and sustained exploration of the properties, structures, and expressive uses of selected art materials. The course aims to enrich and extend personal visual repertoires and in parallel, provoke insights into the role of materials in supporting, integrating and challenging the artistic growth of young people in school. Prerequisite: admission into the Art Department.

ART 2500. Independent Study (1-4).F;S.

Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: permission of the departmental chair.

ART 2601. Textile Design (3).F.

An introduction to weaving and surface design techniques. Emphasis is on material selection, color theory and image sources as applicable to the development of individual textile designs. Prerequisite: registration is restricted to students majoring in the B.S. degree in Apparel and Textiles, or by permission of the instructor. Studio six hours.

ART 2602. Fibers: Weaving I (3).S.

An introduction to the weaving loom as an art-making tool, through basic weave structures, hand-manipulated weaves and weave-drafting. Emphasis is on the selection of materials, woven structures, and color theory as related to the development of individual works of art and design. Prerequisites: ART 1001, ART 1002, and ART 1003. Studio six hours.

ART 3007. Clay II: Handbuilding (3).F;S.

An in-depth exploration of processes and firing methods with hand-formed clay. Emphasis is on the development of conceptual skills and an individual approach. Structured and student-generated assignments will integrate technical skill with creative insight. Prerequisite: ART 2007 or permission of the instructor. Studio six hours.

ART 3009. Metalsmithing and Jewelry Design II: Casting (3).F.

This course will introduce centrifugal casting, rubber mold making, advanced stone setting, repousse and chasing. Students will continue to develop and incorporate forming and fabrication skills. Prerequisite: ART 2009. Studio six hours.

ART 3013. Introduction to New York/Washington Art Scene (1).F;S.

The ASU-NY Loft and/or the Appalachian House in Washington are bases from which visiting groups of students will experience the art museums and galleries in each city. Trips to these cities, organized by art faculty, allow students to gain one semester hour credit. Individual projects are assigned by the instructor leading each trip. May be repeated for a total of three hours credit.

ART 3015. Sophomore/Junior Studio Seminar (3).F;S.

Designed primarily for students seeking the Bachelor of Fine Arts degree in Studio Art, this course will explore what a BFA in Studio Art is, the kind of training a BFA student can expect to receive, and the role of and expectations for the BFA degree in the contemporary art world. This course also provides a global and integrated introduction to the theory and practice of art making as it informs and is informed by the many institutions comprising the art world. It will explore various rationales and strategies for making, promoting, and displaying art. Prerequisites: ART 1001, ART 1002, ART 1003, and ART 1005. Lecture and studio four hours.

ART 3017. Fibers: Weaving II (3).F;S.

Further exploration of weaving as a technique for art-making. Emphasis is on the development of critical thinking and technical weaving skills with application to individual works of art and design. Includes integrations with other fibers processes and techniques. Prerequisite: ART 2601 or ART 2602. Studio six hours.

ART 3021. Visual Art in the Elementary School (3).F;S.

A general orientation to visual art teaching/learning for the elementary level teacher. Students will study visual culture as it relates to children's art-making and the larger world. The class offers a studio experience with ongoing sketchbook assignments. There is a practicum requirement outside of class time where students implement art education theories and methods in an actual teaching situation and perform a child study based on art education meaning-based pedagogy. Lecture two hours per week, studio two hours per week, plus observations and teaching experiences outside of class time are required. (Note: Those pursuing a second concentration in visual arts should take ART 2420 instead of ART 3021.)

ART 3022. Art Education: Birth Through Six—Making Sense of the World (3).F.

Focusing on the child, ages birth through six, this course is based on a theory of visual culture: the questioning of developmental stages, the image of the child as a cultural convention, personal narrative, meaningful art practice, and recognizing art as a dialogue between individuals and culture. Readings, written responses, discussions will be based on what we know collectively about the growth and development of the young child, good teaching practice, and critical pedagogy. The class will offer studio experiences, observations and teaching experiences. Students will design and implement a case study. Lecture two hours per week, studio two hours per week, plus observations and teaching experiences outside of class time are required.

ART 3040. Clay II: Mold-Making and Casting (3).F;S.

An in-depth exploration of molds and casting to attain broader technical and conceptual skills in clay and mixed media. Coursework will include installation, site specific and collaborative endeavors. Structured and student-generated assignments will bridge technical awareness and creative insight. Prerequisite: ART 2040 or permission of the instructor. Studio six hours.

ART 3050. Digital Photographic Design (3).F;S.

This course will develop basic skills in digital art photography, building on knowledge gained in ART 2026 (Photographic Design

l). Photographic image-making will be explored utilizing digital cameras and image-software. Issues in photography will also be investigated. Readings, discussions, field trips, lectures, research, written assignments and image presentations will be incorporated into the coursework. A DSLR camera is required per the instructor's directions. Prerequisite: ART 2026 or permission of the instructor. Studio six hours.

ART 3100. Painting II (3).F;S.

Further exploration of formal issues such as light, color and space. Additional examination of painting techniques, processes and materials. Emphasis is on more challenging, concept-driven assignments. Prerequisites: ART 1002 and ART 2100. Studio six hours.

ART 3102. Typography II (3).F;S.

Second course in the typography sequence focusing on the design of multiple pages, an introduction to publication design, basic typographic systems, and typographic hierarchy. An introduction to the use of type with image and the surface design of three-dimensional form will be studied. Students who do not pass Candidacy Portfolio Review before starting this course will be required to drop the course. Prerequisites: ART 1001, ART 1002, ART 1003, ART 1102, and ART 2102. Studio six hours. (COMPUTER)

ART 3103. Contemporary Issues in Advanced Drawing (3).F;S.

A further exploration of contemporary drawing practices, with a specific thematic focus. Students will use sketchbook development, material experimentation, and visual research to create an independent body of work. Class themes include the human figure, narrative and sequential art, illustration, process and abstraction, and digital drawing media. All classes will examine the cross-cultural development of drawing in art history, and students will also have the opportunity to explore a variety of contemporary aesthetic approaches. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisite: ART 2103. Studio six hours.

ART 3107. Clay II: Throwing (3).F;S.

An in-depth exploration of wheel-thrown clay to attain broader technical and conceptual skills. Emphasis is on the development of critical thinking and an individual approach to materials and processes through structured and student-generated assignments which will bridge technical awareness and creative insight. Prerequisite: ART 2107 or permission of the instructor. Studio six hours.

ART 3109. Metalsmithing and Jewelry Design II: Hollowware (3).S.Odd-numbered years.

This course will introduce the smithing processes of raising, stretching, sinking and shell forming used in the creation of both traditional and nontraditional hollowware forms. In addition, students will continue to develop fabrication, stone setting and casting techniques by adapting and integrating them into more complex and sophisticated forms. Prerequisite: ART 2009. Studio six hours.

ART 3110. Metalsmithing and Jewelry Design II: Computer Aided Jewelry Design (3).On Demand.

This course will introduce computer aided design and rapid prototyping processes currently used in the field of jewelry design and manufacture. Students will design and create objects using CAD software and rapid prototyping machinery. In addition, students will continue to develop traditional fabrication, stone setting and casting techniques by adapting them to the CAD/CAM environment. Prerequisite: ART 2009. Studio six hours.

ART 3111. Metalsmithing and Jewelry Design II: Enameling (3).S.Even-numbered years.

This course will introduce the processes of cloisonné, plique-à-jour and champlevé enameling. In addition, students will continue to develop traditional fabrication techniques, adapting and integrating them into their enameling designs. Prerequisite: ART 2009. Studio six hours.

ART 3112. Art Exhibitions in Contemporary Culture (3).F.

This seminar surveys current practices of exhibiting art in a variety of contexts and cultural institutions including museums, galleries, online and other exhibition sites. Students conduct research on contemporary exhibition practices and take field trips to explore current exhibitions and museum installations. Prerequisite: sophomore standing. Lecture three hours.

ART 3140. Professional Practice: Studio Art (3).On Demand.

This course will provide students with the opportunity, support and direction to begin their professional lives. It focuses on considering the options available with an undergraduate degree in art, and on acquiring the practical skills and knowledge vital for a professional life in a creative field. Students will learn about the pragmatics of a creative career, and understand what steps to take toward that career. Appropriate for students in all Art Department degree tracks. Prerequisite: junior or senior standing or permission of the instructor. Lecture and studio four hours.

ART 3200. Painting III (3).F;S.

An experimental and conceptual approach to painting. Encourages the exploration of conventional and unconventional media and the development of visual sensibility. Includes the study of contemporary issues and the cultivation of individual direction. Prerequisites:

ART 2103 and ART 3100, or permission of the instructor. Studio six hours.

ART 3201. Sculpture II: Contemporary Issues (3).S.

Intermediate focus on traditional and/or experimental sculptural processes, media or techniques. Topics to be considered may include installation art, digital art, performance art or site specific sculpture as well as in-depth study of traditional media. Course content will vary from semester to semester. Prerequisites: ART 2101 and ART 2201. Studio six hours.

ART 3202. Interaction Design I (3).F;S.

An intermediate intermediate graphic design course involving complex interactive projects for the web and other technologies using standards-compliant HTML and CSS. Students will have the opportunity to learn the application of semantic code markup in order to gain an understanding of the separation of content and form in dynamic media. Alternate forms of scripting for the web, animation and motion graphics, and interaction with databases will also be introduced. Prerequisites: ART 2026, ART 2103, ART 2104, and ART 3102. Studio six hours. (COMPUTER)

ART 3208. Fibers: Surface Design I (3).S.

An exploration of fabric surface design materials and processes, such as dye applications, screen-printing and repeat patterning. Emphasis is on critical thinking and development of technical skills with application to individual works of art and design. Prerequisite: ART 2008 or ART 2601. Studio six hours.

ART 3225. Printmaking: Intaglio (3).S.

A general introduction to etching and various techniques associated with traditional and contemporary intaglio printmaking. Students will explore a variety of intaglio effects using plate materials such as zinc, copper, and Plexiglas. Traditional, contemporary, and experimental approaches are encouraged. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 3226. Photographic Design II (3).F;S.

An intermediate course in fine art photography. The course explores more advanced techniques and processes as well as aesthetic, technical and conceptual problem-solving, critical analysis of image-making and historical and theoretical issues in the field. A camera is required per the instructor's directions. Prerequisite: ART 2026 or permission of the instructor. Studio six hours.

ART 3227. Special Topics in Photography (3).F.

In this course, students will examine a specialty area in photography through discussion, research, writing, presentations and/or creative studio work. Content may vary. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. A camera is required per the instructor's directions. Prerequisite: ART 2026 or permission of the instructor. Studio six hours.

ART 3302. Idea Lab (3).F;S.

The course will function as a creative laboratory, providing students the opportunity to be immersed in and mindful of the design process. Course topics include innovation methodologies, design processes, visualization, prototyping and testing. Through exercises, readings, research and studio projects, students will develop lifelong skills to foster the good ideas that lead to meaningful creative work. Students who do not pass Candidacy Portfolio Review before starting this course will be required to drop the course. Prerequisites: ART 1102 and ART 2102. Studio six hours.

ART 3308. Fibers: Structure I (3).F.

An exploration of various three-dimensional fibers techniques, such as off-loom structural processes, paper forms and found materials. Emphasis is on critical thinking and development of technical skills with application to individual works of art and design. Prerequisite: ART 2008. Studio six hours.

ART 3312. Motion Graphics (3).On Demand.

This is an intensive course in time-based media for artists and designers. Students will create broadcast quality animation and compositing projects for television, web and other technologies. Students will use type and images to learn a variety of production techniques in digital audio, digital video, animation and other special effects. Post-production presentation techniques targeting the broadcast and theatrical industry, the web and other technologies will be covered. Prerequisite: ART 2104 or permission of the instructor. Studio six hours.

ART 3322. Sign, Symbol, Image (3).On Demand.

An introductory study of signs, symbols and images in the context of graphic communication. The course includes theoretical and practical considerations of the relationship between visual form and cultural meaning. Course projects address visual perception and interpretation, abstraction and stylization, symbol typologies, gestalt of design, semantics and typography, and the application

of semiotics and rhetorical tropes to visual communication. Course objectives are to enhance students' analytical skills and situate graphic design practice in a larger socio-cultural context. Prerequisites: ART 2104 and ART 3102. Studio six hours.

ART 3325. Printmaking: Lithography (3).F.

This course introduces the basic chemistry, processes and techniques of stone, plate, color and photo-lithography. Emphasis is on the technical proficiency and the development of editions that reflect unique pictorial themes. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 3332. Design Methods (3).On Demand.

This course includes a survey of research methods that enhance creative conceptualization abilities and provide research-based evidence that supports design decisions. Students examine case studies; analyze secondary research; experience various contextual research methods; and conduct and apply primary research that uses a variety of design methods (interview, observational and participatory). Prerequisites: ART 2104, ART 3102 and ART 3302. Lecture and studio four hours.

ART 3400. Women Artists (3). On Demand.

GEN ED: Junior Writing in the Discipline (WID)

This course will provide a historical and contemporary survey of women visual artists. Lecture three hours. Prerequisite: ENG 2001 or its equivalent. (WRITING)

ART 3408. Fibers: Surface Design II (3).S.

Further exploration of surface design processes as techniques for art-making. Emphasis is on critical thinking and development of technical skills with application to individual works of art and design. Integrations with other fibers processes and techniques. Prerequisite: ART 3208. Studio six hours.

ART 3410. Book Arts (3).S.

This course investigates the potential of combining text and image using digital and photo-printmaking techniques to create artists' books with content. There is a secondary focus on mastering binding structures. Prerequisites: ART 1001, ART 1002, and ART 1003, or permission of the instructor. Studio six hours.

ART 3420. Art Education: Field Experiences (3).F;S.

Students will devise curricula and teach various populations in the public schools and other community settings. Prerequisite: ART 2420 or permission of the instructor. May be repeated for a total credit of nine semester hours. Lecture two hours per week, laboratory two hours per week, plus observations and teaching experiences outside of class time are required. (SPEAKING)

ART 3500. Independent Study (1-4).F;S.

Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: permission of the departmental chair.

ART 3508. Fibers: Structure II (3).F.

Further exploration of structural fibers processes as techniques for art-making. Emphasis is on critical thinking and development of technical skills with application to individual works of art and design. Integrations with other fibers processes and techniques. Prerequisite: ART 3308. Studio six hours.

ART 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

ART 3521. Technical Assistant (1). F;S.

A supervised experience in which students will provide technical laboratory assistance in media-based studios and computer-related facilities. Graded on an S/U basis. May be repeated for a total credit of three semester hours. Prerequisites: junior or senior standing and permission of the instructor.

ART 3522. Research Assistant (1-3). F;S.

A supervised experience in which the student collaborates on a faculty member's project under the direction of the faculty member. A student may also undertake her/his own research if it is relevant to that of the faculty member. Graded on an S/U basis. May be repeated for a total credit of six semester hours. Prerequisites: declared art major with junior or senior standing and permission of the instructor.

ART 3530-3549. Selected Topics (1-4). On Demand.

ART 3600. History of Modern Art (3).F. Alternate years.

GEN ED: Junior Writing in the Discipline (WID)

A survey of leading movements in modern art from the 1870's to 1945. Lecture three hours. Prerequisites: ART 2130 or consent of the instructor and ENG 2001 or its equivalent. (WRITING)

ART 3602. Special Topics in Graphic Design (3). On Demand.

Students examine in detail a speciality area in graphic communication, through discussion, research and creative studio work. Examples of topics might include: illustration, exhibition design, packaging design, and publication design. Content to vary; may be repeated for credit when content does not duplicate. Prerequisites: ART 1102 and ART 2102. Studio six hours.

ART 3610. Asian Art (3).On Demand.

The art forms of three Asian cultures - India, China, and Japan are explored. Particular attention is devoted to painting, sculpture, and architecture as well as the unique forms of each culture. Prerequisite: ART 2030 or ART 2130 or permission of the instructor. Lecture three hours.

ART 3630. African Art (3).S. Odd-numbered years.

GEN ED: Junior Writing in the Discipline (WID)

This course explores major themes in the study of the visual arts in Africa. Works of art from the ancient rock paintings of the Sahara, through the ancient artistic traditions of Ife and Benin, to the arts of the colonial and post colonial periods are presented. Diverse forms of art works are studied in their social, religious, and political contexts. Prerequisites: sophomore standing or consent of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING; MULTI-CULTURAL)

ART 3650. Art of Late Antiquity (3). On Demand.

GEN ED: Junior Writing in the Discipline (WID)

A course in the Late Antique art, covering early Christian, Byzantine and early Islamic art. Focus on the social context of ancient art production and reception. Prerequisites: ART 2030 or consent of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 3700. Oceanic Art (3).F. Alternate years.

GEN ED: Junior Writing in the Discipline (WID)

This course examines the visual arts of the Pacific Islands, Australia, New Zealand, and New Guinea, including tattooing and other body adornment practices, architecture, sculpture, and textiles. The course explores the ways oceanic arts since the 18th century embody resistance and survival through the continuity of traditional art forms as well as work in more contemporary media and styles. Lecture three hours. Prerequisites: sophomore standing or consent of the instructor and ENG 2001 or its equivalent. (WRITING)

ART 3705. Contemporary Art of Africa (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

This course examines themes in the study of the recent visual arts of Africa and the Caribbean during the colonial and post-colonial period. This course explores the ways that artistic production reflects its local background and circumstances as it enters into a dialog with a global art scene. The course will examine art as a sensitive barometer of social, cultural, religious, and political changes in modern Africa and the Caribbean. Prerequisite: ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 3710. Ancient Egyptian Art (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

A course in the history of Egyptian art, from archaic through early Christian periods. Focus is on the social context of ancient art production and reception. The course includes critical reading, writing, and discussion. Prerequisites: ART 2030 or permission of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 3730. Native Arts of the Americas (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

This course explores the native arts and architecture of North America, Central America and South America. Diverse forms of artworks are studied in their social, religious, and political contexts. The focus of the course may be in any of the three major cultural regions, from prehistory to the present. Prerequisites: sophomore standing or permission of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING; MULTICULTURAL)

ART 3750. History of Roman Art (3). On Demand.

GEN ED: Junior Writing in the Discipline (WID)

A course in the history of Roman art, from archaic through early Christian periods. Focus on the social context of ancient art production and reception. Prerequisites: ART 2030 or consent of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 3760. History of American Craft (3).On Demand.

This course will consider the development of American studio craft from a historical perspective and continuing to the present day, considering craft objects as discreet entities and in relation to other creative output. Lecture three hours.

ART 3800. Art Since 1945 (3).S. Alternate years.

GEN ED: Junior Writing in the Discipline (WID)

A survey of leading movements in contemporary art from 1945 to the present. Lecture three hours. Prerequisites: ART 2130 or consent of the instructor and ENG 2001 or its equivalent. (WRITING)

ART 3810. Photography and Culture (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

This course invites students to develop a critical understanding of the relationship between photography and culture. Readings, lectures, presentations and discussions on historical and contemporary photographers will be incorporated into the coursework. Prerequisites: ART 2130 or permission of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 3820. History of Museums and Collecting (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

A seminar in the history of museums and collecting, focusing on the 19th century through today. Major emphasis is placed on critical reading, writing, and discussion. Prerequisites: ART 2130 or permission of the instructor and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 3900. Internship (1-6). F;S.

Supervised placement in a setting which provides an opportunity for students to observe and practice various art and design related skills. Supervision and evaluation by the site supervisor and the faculty member. Graded on an S/U basis.

ART 3969. Art Education and the Exceptional Learner (3).S.

This course prepares the art educator to meet the needs of students with identified disabilities (K-12). The role of the art teacher in inclusive classrooms (those that include students with and without disabilities) as well as in self-contained classrooms (those containing only students with identified disabilities) will be addressed. Teacher candidates observe, analyze and evaluate a variety of K-12 art experiences involving children with exceptionalities. The course teaches the modification of art tools and the development of teaching strategies to allow all students to make art. Students will participate with the SPE 4205 (Inclusion) course and will also have a practicum experience. Prerequisite: admission into the Art Department.

ART 4012. Exhibitions Practicum (3).S.

This practicum course introduces students to the fundamental principles and practical responsibilities of managing and maintaining art exhibitions. Students gain experience planning, promoting, designing, and installing exhibitions and events in the Catherine J. Smith Gallery. Prerequisite: sophomore standing. Lecture and practicum four hours.

ART 4013. Business of Art (3). On Demand.

An introduction to the theoretical and practical issues encountered by artisans on a day-to-day basis. The artisans will delve into various business topics such as taxes, insurance, bookkeeping, commission agreements, copyright laws, and other applications necessary for establishment of good business practices. Prerequisites: 6 s.h. above the 2000 level in any ONE studio area (excluding graphic design) or 6 s.h. above the 3000 level in art history. (WRITING)

ART 4030. Seminar in Art Criticism and Theory (3).F;S.

GEN ED: Capstone Experience

A seminar in the theory and criticism of art in which leading methods of analysis are examined through readings and discussion. Major emphasis is placed upon the student developing a critical sense of art. Prerequisites: ART 2030 and ART 2130, or consent of the instructor. Lecture three hours. (WRITING; SPEAKING)

ART 4040. Seminar in Art History (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This advanced seminar in art history will focus on in-depth inquiry into a particular period, theme, place or genre in art history. Content will vary from semester to semester. May be repeated barring duplication of content for a total credit of 12 semester hours. Prerequisites: ART 2030, ART 2130 and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

ART 4102. Typography III (3).F;S.

Third course in the typography sequence stressing the dynamic relationships among content, form and context to gain a deeper understanding of systems at many levels. Other topics may include: packaging, expressive, environmental, dynamic, and interactive

typography. Prerequisites: ART 2026, ART 2103, ART 3102, and ART 3302. Studio six hours.

ART 4109. Metalsmithing and Jewelry Design IV: Advanced Fabrication, Casting and Hollowware (3).F;S.

Study of advanced techniques and processes appropriate to developing an individual aesthetic in the area of metalsmithing and jewelry design. Students will complete a technical research project. Prerequisite: ART 3109. Studio six hours.

ART 4192. Graphic Design Senior Seminar (3).F;S.

This course prepares students for their final senior design project in ART 4202, Graphic Design Senior Studio (*GEN ED: Capstone Experience*). These two courses, taken in sequence, provide an opportunity for advanced students to demonstrate a mature understanding of design practice. Through readings, literature review, and research assignments, the graphic design senior seminar examines contemporary issues in design, the expanding practice of design and addresses the relevance of pre-design stages to the design process as a whole. Students conduct research and locate their interests within the design discipline before producing proposals for their capstone project. Prerequisites: ART 3202 and ART 4102. Lecture and studio four hours.

ART 4202. Graphic Design Senior Studio (3).F;S.

GEN ED: Capstone Experience

The culminating course in the graphic design program, this course addresses self-reliance and the application of research and creative inquiry to the realization of projects proposed in ART 4192 (Graphic Design Senior Seminar). Students will produce a portfolio of work that demonstrates analytical, conceptual, visual and technical maturity. Passing a portfolio review is a requirement of this course. Prerequisites: ART 3050, ART 3202, ART 4102, and ART 4192. Studio six hours. (SPEAKING)

ART 4300. Special Topics in Advanced Painting and Drawing (3).F;S.

This is an advanced painting and drawing studio course designed to develop personal vision and critical thinking. Emphasis is on the evolution of formal practice and self-evaluation. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisites: ART 2100, ART 3100, and ART 3200 or ART 3103. Studio six hours.

ART 4301. Special Topics in Advanced Sculpture (3).F;S.

An advanced development of sculptural expression. The students will be expected to develop a personal approach to sculptural content and style as well as develop standards of critical judgment in the analysis of their own work. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisite: ART 3201. Studio six hours.

ART 4302. Interaction Design II (3).On Demand.

This is an advanced graphic design course involving complex interactive projects for the web and other technologies using dynamic and media-rich interactive media. Projects may include animation, typography in motion, data visualization, interactive exhibits and narratives, and other time-based experiences. Prerequisites: ART 3102 and ART 3202 or permission of the instructor. Studio six hours.

ART 4307. Special Topics in Advanced Clay (3).F;S.

An advanced self-directed study with in-depth individual research, exploration and production with regard to materials, processes and concepts. Emphasis is on critical thinking. Students are expected to create a body of work that demonstrates their level of knowledge, skills and abilities acquired in studies to date. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisites: two of the following Clay I courses: ART 2007, ART 2040, ART 2107; and one of the following Clay II courses: ART 3007, ART 3040, ART 3107. Studio six hours.

ART 4308. Special Topics in Advanced Fibers Studio (3).F;S.

A self-directed studio production course in fibers with additional research, presentations, and critiques with fibers faculty and other advanced students. The majority of goals and projects will be proposed by the students with the instructor's approval. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisites: three of the following fibers courses: ART 2008, ART 2602, ART 3017, ART 3208, ART 3308, ART 3408, ART 3508. Studio six hours.

ART 4309. Special Topics in Advanced Metalsmithing and Jewelry Design (3).F;S.

A self-directed advanced course of study in which the student will develop a contract with the instructor that includes project descriptions, selected readings and deadlines. Critiques will take place in both group and individual settings. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisites: two of the following courses: ART 3009, ART 3109, ART 3110, ART 3111. Studio six hours.

ART 4312. Graphic Design Professional Practice (3).On Demand.

Aimed at senior graphic design majors, ART 4312 (Graphic Design Professional Practice) is intended to help students transition from student to design professional. The course addresses professional practices in the context of various design disciplines as well as current issues in the field. Students will create self-promotional packages, undertake research and writing that reflects their preparedness

for the job search; develop and refine their portfolios; and, if possible, visit a design studio or printing facility. Prerequisites: ART 3102 and ART 3202. Lecture and studio four hours.

ART 4325. Special Topics in Advanced Printmaking (3).F;S.

This course continues the investigation of techniques and directions introduced in beginning level printmaking courses. Students are expected to refine technical competency through the development of a cohesive body of work that articulates an inventive and conceptual use of the printed image and a clear personal vision. Emphasis will be given to examining advanced processes and contemporary issues in printmaking. Barring duplication of content, a student may repeat the course for a total credit of nine semester hours. Prerequisites: at least three of the following courses: ART 2025, ART 2125, ART 3225, ART 3325. Studio six hours.

ART 4326. Advanced Photographic Design (3).S.

An advanced course in fine art photography. This course is designed to allow students to work at an advanced level in photography, to enhance the aesthetic, intellectual and visual evolution of personal work and to hone critical skills and awareness of historical and theoretical issues in the field. A camera is required per the instructor's directions. Prerequisite: ART 3226 or permission of the instructor. Studio six hours.

ART 4351. Senior Seminar (3).F;S.

This senior seminar course prepares students for creating a coherent body of work in ART 4852 (Senior Studio). These two courses, taken in sequence, provide an opportunity for advanced students to demonstrate an emerging intellectual, visual and technical maturity in respect to their own work. Senior Seminar includes planning and writing an exhibition proposal; reading relevant art criticism and theory; writing a research paper; and documenting the progress of one's work through sketches, models, and oral presentations. This course is an opportunity for students to articulate meaningful ideas and integrate them with studio practice. Prerequisites: ART 3015 and completion of a minimum of 27 semester hours of studio electives. Prerequisite or corequisite: at least one of the following courses: ART 4300, ART 4301, ART 4307, ART 4308, ART 4309, ART 4325, ART 4326. (WRITING; SPEAKING)

ART 4420. Art Education Special Topics (3). On Demand.

This course explores a particular current issue in art education each semester. May be repeated with different topics for a total credit of nine semester hours. Prerequisite: ART 2420. Lecture two hours, laboratory/studio two hours.

ART 4510. Senior Honors Thesis (3).F;S.

Independent research and/or creative project. Honors thesis directed by a member of the Art Department and evaluated by a departmental committee. Prerequisite: completion of six semester hours of Art honors coursework.

ART 4515. Junior/Senior Honors Seminar (3).F;S.

An intensive study of a selected topic in studio art, graphic design, art history, art management, art education, or inter-disciplinary art. Course content will be determined by the instructor. Course may be repeated barring duplication of content. Prerequisite: enrollment is by invitation or by permission of the instructor and the departmental honors director. (WRITING; SPEAKING)

ART 4551. Studio Workshop (1-3) On Demand.

An intensive course to be offered in selected media such as drawing, printmaking, painting, photography, sculpture, clay, fibers, alloys, computer graphics, and others. Prerequisite: portfolio review or permission of the instructor.

ART 4852. Senior Studio (3).F;S.

GEN ED: Capstone Experience

Senior Studio is the capstone studio experience for BFA Studio Art majors. This course carries on and brings to resolution the conceptual, technical and studio practices begun in Senior Seminar. Students will demonstrate an emerging intellectual, visual and technical maturity by producing a body of work for exhibition. Students will also write process statements and deliver a series of oral presentations critically analyzing their works in progress. This course addresses issues relevant to becoming a professional artist. A committee of three faculty members will evaluate each student's work. Prerequisite: ART 4351. Studio six hours.

ART 4900. Internship: Field Experience (10-12).SS.

GEN ED: Capstone Experience

An on-the-job experience with artists, museums, galleries, and business related to the promotion of art professions. Graded on an S/U basis.

Department of Communication (COM)

Janice T. Pope, Chair

Calvin L. Hall, Assistant Chair

Frank A. Aycock

Roger W. Bodo

Edward C. Brewer

Laura L. Brittain

Kelly Davis

Jean L. DeHart

Carolyn M. Edy

Paul H. Gates, Jr.

Roger S. Gonce

Jennifer B. Gray

Lynn D. Gregory

Lynette Holman

Ginger M. Loggins

Tina C. McCorkindale

Olga Zatepilina Monacell

Nina-Jo Moore

Jeff B. Motter

Thomas S. Mueller

Dean E. Mundy

Heather P. Preston

Sean R. Ridley

K. Steve Smith

R. David Spiceland, Jr.

Cindy M. Spurlock

Larry S. Taylor

Glenda J. Treadaway

Daniel C. Walsh

Anne C. Ward

Scott M. Welsh

Hongwei (Chris) Yang

The objectives of the Department of Communication are to prepare those interested in entering specific communication professions such as electronic media/broadcasting, journalism, advertising, interpersonal/intercultural/health counseling, organizational consulting or training and public relations; to provide a broad background of information and develop skills needed by those students planning to enter other areas such as law, ministry, public service and graduate studies; and to provide the University and community the stimulation of debates and discussions of current issues, and the informative and entertaining programs of radio and television.

The Department of Communication offers a diversified series of courses in the areas of advertising, electronic media/broadcasting, journalism, public relations, and communication studies. The department also supports co-curricular programs including competitive intercollegiate forensics, the Appalachian radio station (WASU) and TV programming, along with various community experiences in journalism, public relations and advertising. The department actively supports student organizations and national honorary societies that are related to communication such as the Forensics Union, Pi Kappa Delta, National Broadcasting Society, Alpha Epsilon Rho, Lambda Pi Eta Communication Honor Society, Appalachian Communication Club, Advertising Club, the Public Relations Student Society of America and the Society of Professional Journalists. Communication majors are expected to participate in the co-curricular activities of the department.

Admission to the Department of Communication

The Department of Communication seeks to admit students who are dedicated to pursuing a degree in the varied fields of communication.

Consideration of resources places a restriction on the number of students the Department can serve. For this reason, applicants who have met all current University requirements for the declaration of a major will be considered for admission into one of the department's five Bachelor of Science degrees (listed below) no later than February 1 for the following fall semester, or no later than September 15 for the following spring semester:

Bachelor of Science degree in Communication, Advertising

Bachelor of Science degree in Communication, Electronic Media/Broadcasting

Bachelor of Science degree in Communication, Journalism

Bachelor of Science degree in Communication, Public Relations

Bachelor of Science degree in Communication Studies

Declaration of a major begins the process of applying for admission, but is not the same as admittance into the Department. If more students apply for admission than resources can accommodate, selections will be made based on overall GPA and GPA in COM 1200. In the event of ties, the selection committee will ask students to submit a writing sample.

The Bachelor of Science degree in Communication, Advertising (507A/09.0903)

The program of study is available at: www.programsofstudy.appstate.edu/communication-advertising-bs-507a-2012-2013

The Bachelor of Science degree in Communication, Electronic Media/Broadcasting (525A/09.0701)

The program of study is available at: www.programsofstudy.appstate.edu/communication-electronic-mediabroadcasting-bs-525a-2012-2013

The Bachelor of Science degree in Communication, Journalism (517A/09.0401)

The program of study is available at: www.programsofstudy.appstate.edu/communication-journalism-bs-517a-2012-2013

The Bachelor of Science degree in Communication, Public Relations (521A/09.0902)

The program of study is available at: www.programsofstudy.appstate.edu/communication-public-relations-bs-521a-2012-2013

The Bachelor of Science degree in Communication Studies (585A/09.0101)

The program of study is available at: www.programsofstudy.appstate.edu/communication-studies-bs-585a-2012-2013

Minor in Communication (532/09.0101) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/communication-minor-532-2012-2013

Honors Program in Communication

The Department of Communication offers a 9 semester hour honors program composed of 6 semester hours of Communication honors courses and a 3 semester hour Communication honors thesis. To graduate with "Honors in Communication," a student must be a Communication major, maintain an overall GPA of 3.45 and maintain an overall Communication GPA of 3.45, and earn a grade of no less than a "B" in any honors designated courses.

Courses of Instruction in Communication (COM)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

COMMUNICATION (COM)

COM 1200. Foundations of Human Communication (3).F;S.

The study of the development, research, theory and field of human communication.

COM 2101. Public Speaking (3).F;S.

Intensive practice in composition and delivery of various types of speeches with emphasis on speech structure and style. (SPEAKING)

COM 2106. Argumentation and Advocacy (3).F.

Study of the theory of argumentation including the reasoning process; the use, discovery, and evaluation of evidence; refutation; advocacy situation analysis and adaptation. Practice in speaking in a variety of advocacy situations and types. Corequisite or prerequisite: COM 2101 or consent of the instructor. (WRITING; SPEAKING)

COM 2110. Introduction to Nonverbal Communication (3).F;S.

An introduction to nonverbal behavior as a form of communication, with emphasis upon nonverbal communication in the classroom, in the business world, and in general interpersonal relations. Examination will be made of such areas of nonverbal behavior as kinesics (body language), haptics (communication through touch), proxemics (use of space and communication), paralinguistics (vocal cues in communication), and nonverbal factors in communication between variant ethnic groups and cultures. (WRITING)

COM 2115. Speech Activity (1–3).F;S.

Participation in activities of the Forensic Union or other projects approved by the department. The student will contract with the appropriate staff member for the activities of this course. May count four (4) semester hours toward graduation.

COM 2121. Interpersonal Communication (3).F;S.

Study and application of basic communication concepts to interactive communication situations and problems. Students will be involved in various activities pertinent to understanding these concepts.

COM 2131. Health Communication (3).F.

An exploration of the role communication plays in health care delivery, health behavior change programs, and health communication career opportunities. The course is designed to increase understanding of the communication theories and research in patient/provider relationships, communication in health care organizations, media coverage of health, and health communication campaign planning and implementation.

COM 2180. Communication Theory (3).F;S.

Study of communication theories, systems, models, formulations and measurements; new dimensions in speech criticism and research methodology; critical study of published reports in the contemporary literature of the field. Prerequisite: COM 1200.

COM 2300. Introduction to Mass Communications (3).F;S.

Study of the forms of mass communication including newspaper, magazine, radio, television, books, and film. Corequisite or prerequisite: COM 1200 or consent of the instructor.

COM 2310. Communication Ethics (3).F;S.

Study methods of applying logical concepts and techniques as well as ethical theories, principles and techniques to professional communication fields. The course will also demonstrate the importance of ethics and of communication ethics to the student's personal and professional life. It will scrutinize and evaluate the fundamental issues and problems in communication ethics and examine the social responsibility of professional communicators. Prerequisite: COM 1200 or consent of the instructor. (WRITING)

COM 2315. Mass Communication Activity (1).F;S.

Participation in broadcasting or journalism activity. Students will contract with the appropriate faculty member to work in radio, TV, or journalism. Maximum of four hours may be applied to graduation. Graded on an S/U basis.

COM 2316. Audio Production I (3).F;S.

Audio Production I is a lecture/laboratory course designed to introduce the electronic media/broadcast student to the basic science of sound and audio along with terminology and audio production procedures used in radio, television, and other forms of converged media. Students are instructed in the use of professional state-of-the-art audio production equipment for producing commercials and various types of electronic media programming. Other forms of audio production techniques are also presented, such as preparing audio tracks for video production and general techniques of producing remote broadcasts. Corequisite or prerequisite: COM 2300. Prerequisite: registration is restricted to students admitted to the B.S. degree in Communication, Electronic Media/Broadcasting.

COM 2500. Independent Study (1–2).F;S.

COM 2600. Introduction to Journalism (3).F;S.

Introduction to newsgathering, writing, and editing processes. (WRITING; COMPUTER)

COM 2610. Print Newswriting (3).F;S.

Study of newswriting for newspapers and magazines. Emphasis on techniques of interviewing, newsgathering, newswriting, and typing news stories. Prerequisites: keyboarding skills appropriate to news room expectations, COM 2600, must be an admitted journalism major or communication minor, or consent of the instructor. (WRITING; COMPUTER)

COM 2612. Broadcast Newswriting (3).F;S.

Study of newsgathering and newswriting for radio and television. Emphasis on techniques of interviewing, newsgathering, newswriting and preparing broadcast news stories. Corequisite or prerequisite: COM 2300 or consent of the instructor. Prerequisites: keyboarding skills; COM 2600 or consent of the instructor. (WRITING)

COM 2618. Introduction to Media Publishing (3).F;S.

Introduction to the creation of printed communication. Students will be given the opportunity to learn to use current desktop publishing software to create publications typically found in the field of communication. Prerequisite: must be an admitted advertising major, journalism major, or public relations major. (COMPUTER)

COM 2700. Foundations of Advertising (3).F;S.

An introductory course that examines advertising as a form of communication. After a brief examination of history, role in the economy, external restraints and customer behavior, the course concentrates on theories and principles of media messages and management as well as advertising applications and trends. Prerequisite: COM 2300.

COM 3010. Media Graphics (3).F;S.

A study and application of the creative and practical aspects of typography, layout and design of printed and electronic communication. Prerequisite: COM 2618. (WRITING; COMPUTER)

COM 3100. Interviewing Techniques (3). On Demand.

A study of the variables present in informational, persuasive, and employment interview situations. Practice in classroom simulation interviews.

COM 3110. Small Group Communication (3).On Demand.

The theory and practice of small group communication, with emphasis upon the psychology of small group interaction, styles and methods of leadership, environments and small group interactions, and problem/solution methodologies in small group interactions. Students are provided the opportunity to apply theory in actual small group projects.

COM 3117. Environmental Communication (3).On Demand.

The course is designed to encourage students to think critically about the meanings of environmental communication and the roles it plays in their lives and throughout the world. Students will also examine the recent history and development of environmental communication as an area of intellectual inquiry.

COM 3118. Communicating Coal in Appalachia (3).On Demand.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

The course examines the types of communication and information campaigns used by various stakeholders in the cultural, economic and political conflicts surrounding the coal industry in Appalachia. Students will learn through case studies, readings, guest speakers and at least one field trip to the coal fields of Appalachia.

COM 3120. Rhetoric and Religious Discourse (3).On Demand.

GEN ED: Junior Writing in the Discipline (WID)

The rhetorical analysis of religious themes in political and popular discourses. Prerequisite: ENG 2001 or its equivalent. (WRITING)

COM 3124. Intercultural Communication (3).S.

Examines communication practices in multi-cultural settings including international, national, regional, ethnic, racial, economic, religious, and other topics of pertinence to effective intercultural communication. Students will be involved in observational activities and research activities to exemplify intercultural communication differences in a practical way. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY)

COM 3130. Minorities in Media (3).On Demand.

This lecture and discussion course introduces students to the complex relationships between race, gender, and popular culture via critical media analysis.

COM 3131. Health Communication in Interpersonal Settings (3).On Demand.

Theory and practice of health communication in interpersonal contexts, including patient-provider communication, social support, and communication in illness.

COM 3151. Gender Communication (3). On Demand.

GEN ED: Junior Writing in the Discipline (WID)

A course designed to allow students to learn, through studying theories and through practical experiences, the concepts relative to communication and both genders. Study includes, but is not limited to, communication among both and single genders; communication role development; how gender communication affects family relationships; differences in verbal and nonverbal communication across genders; and how gender roles affect close relationships, education, the media, acts of violence, and the workplace. Prerequisite: ENG 2001 or its equivalent. (WRITING)

COM 3152. Communication in Organizations (3).F;S.

Examines communication within organizational structures; develops skill in language, observation and listening; teaches improved communications skill through interview and formal presentations. Oriented to the speech communication requirements of the contemporary business and professional community.

COM 3155. Persuasion (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course explores the role of persuasion in public life. Students will learn to critically analyze and produce persuasive discourse in social, cultural, and democratic contexts in light of prevailing theories of social influence. Prerequisites: COM 1200 and COM 2101, or consent of the instructor; and ENG 2001 or its equivalent. (WRITING; SPEAKING)

COM 3182. Organizational Communication Simulation (3).On Demand.

A course designed to help students develop and apply organizational communication skills that are helpful in a variety of professional settings, including human resources, interviewing, group decision-making, and written and oral reporting.

COM 3200. Internet Communication (3). On Demand.

Practical and theoretical introduction to the Internet as a communication medium. Training in effective online communication, including e-mail, chat, net conferencing, and web pages. Discussion of social, political, and personal impact of new medium from a variety of theoretical, historical, and critical perspectives. (COMPUTER)

COM 3210. Copy Editing (3).F.

A course designed to introduce students to the theory and practice of editing copy, editing photos and informational graphics, and writing headlines for print and online journalism. Prerequisites: COM 2610 and must be an admitted journalism major. (COMPUTER)

COM 3300. Mass Media and Society (3).F;S.

A survey of the social impact of mass media. Analysis of issues such as mass media and individual behavior, violence and TV, media and consumers, and mass media and popular culture. Prerequisite: COM 2300 or consent of the instructor.

COM 3301. Writing for the Electronic Media (3).F;S.

Formats and techniques of writing for the electronic media. Prerequisite: COM 2300 or consent of the instructor. (WRITING)

COM 3302. Copywriting for Advertising (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Development of skills and techniques of advertising copywriting applying to all media. Goals are to improve creative writing skills, learn the basics of advertising copy and layout and the analysis of advertisements. Prerequisites: COM 2700 and must be an admitted advertising major or communication minor; and ENG 2001 or its equivalent. (WRITING)

COM 3305. Communication Law (3).F;S.

A study of legal sanctions and constitutional freedoms affecting the mass media, various communication technologies and human communication.

COM 3306. Audio Production II (3).F;S.

Audio Production II is an extension of the material covered in Audio Production I. The course is designed to further electronic media/broadcast students' knowledge of the terminology, production procedures, and equipment used in all electronic media production including radio, Internet, and audio for video. Prerequisites: COM 2316; registration is restricted to students admitted to the B.S. degree in Communication, Electronic Media/Broadcasting.

COM 3310. Layout and Design for the Print Media (3).S.

A course that emphasizes the theory, principles and practice of newspaper and magazine design. Prerequisites: COM 2610, COM 2618, and must be an admitted journalism major. (COMPUTER)

COM 3311. Conflict Management (3). On Demand.

A course that examines positive conflict management processes, including active listening and communication skills, principled negotiation, mediation, and nonviolent direct action. (CROSS-DISCIPLINARY)

COM 3312. Crisis Communication (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

A study of the role of crisis communication in contemporary organizations. Emphasis is on critical assessment of organizational readiness for a crisis and advanced crisis preparation. Students prepare a crisis assessment and crisis management plan for an actual organization/business. Prerequisite: ENG 2001 or its equivalent. (WRITING)

COM 3314. Advanced Media Analysis (3).F.

An examination of media content through a mass communication perspective. The course will define the field of media analysis, examine the importance of message production, and discuss the dilemmas that electronic media professionals face in producing content. Prerequisite: COM 2300.

COM 3315. Political Communication (3). On Demand.

GEN ED: Aesthetic Perspective (Theme: "Expressions of Belief")

Examines the theoretical and practical aspects of political communication. Topics covered include political debates, speechwriting, political cartoons, communication strategies during and after campaigns, and the role of the media in political communication. (CROSS-DISCIPLINARY)

COM 3316. Television Studio Production (3).F;S.

Exposure to multi camera, live studio production. All aspects of the live process will be covered including production equipment, scripting, lighting, crew assignments, videotape formats and editing. Lecture 2 hours, laboratory 2 hours. Prerequisite: COM 2316.

COM 3318. Public Relations Principles (3).F;S.

An introductory course that serves as an overview of the technical elements and basic principles of public relations. It introduces the students to the concepts and activities that form the foundations of a professional practice. Prerequisite: must be an admitted public relations major or communication minor.

COM 3320. Digital Media Production (3).F;S.

A course for non-electronic media/broadcasting majors. Introduces students to the terminology, equipment and operating procedures used in the digital production of material for audio and video. Includes audio and visual laboratories.

COM 3333. Electronic Media Programming (3).S.

This course surveys the various methods for program decision-making at all levels of radio, television, and new electronic media. Also covered: the duties of the program director, music director, and on-air staff; how advertising, news, and entertainment fit together in programming strategy; the future convergence of media technologies and their effect on future programming; program criticism, effects, and ratings; and future career opportunities in the programming segment of these industries. Prerequisite: COM 2300.

COM 3500. Independent Study (1-4).F;S.

COM 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

COM 3530-3545. Selected Topics (1-4). On Demand.

COM 3546. Selected Topics in Practices (3).On Demand.

COM 3547. Selected Topics in Contexts (3).On Demand.

COM 3548. Selected Topics in Perspectives (3).On Demand.

COM 3549. Selected Topics in Analyses (3).On Demand. (WRITING)

GEN ED: Junior Writing in the Discipline (WID)

An opportunity to study a special topic or combination of topics not otherwise provided for in the communication curriculum. Course numbers COM 3530-3545 are reserved for variable credit courses treating topics relating to any of the department's degree concentrations; while COM 3546 is reserved for 3 credit hour selected topics courses related to Practices; COM 3547 is reserved for 3 credit hour selected topics courses related to Contexts; COM 3548 is reserved for 3 credit hour selected topics courses related to Perspectives; and COM 3549 (WRITING) is reserved for 3 credit hour selected topics courses related to Analyses. Prerequisite for COM 3549: ENG 2001 or its equivalent. Any of these numbers may be repeated for credit when content does not duplicate.

COM 3600. Feature Writing (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Study of principles, processes and techniques of editorial and feature writing for print media. Intense practical training in advanced writing styles and skills. Prerequisites: COM 2600 and COM 2610, or consent of the instructor; and ENG 2001 or its equivalent. (WRITING)

COM 3618. Public Relations Writing (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Public relations writing seeks to increase student skills in developing and preparing collateral public relations materials. This course integrates and builds upon the journalism, public address, communications and public relations courses. It sets the foundation for independent action in the advanced public relations courses and for successful experiences in an internship environment. Prerequisite: COM 2600 and ENG 2001 or its equivalent. (WRITING)

COM 3620. Principles of Fund Raising (3). On Demand.

An introduction to the basic principles and methods of contemporary fund raising in the United States. Students are introduced to the skills of researching constituencies and developing a fund raising plan for a real organization.

COM 3640. Media Planning (3).F;S.

This course is designed to teach the basics of advertising media planning: the essential terms and concepts in media planning, how to identify the media problems and opportunities of a client, and how to develop effective strategies for solving these problems and making the best use of these opportunities. Each student will produce a ready-to-submit media plan for a client. Prerequisite: COM 2700 or permission of the instructor.

COM 3680. Literary Journalism (3). On Demand.

A study of journalism as literature and the practice of writing nonfiction journalistic prose employing the narrative aims and techniques of fiction. (Same as ENG 3680.)

COM 3900. Internship (3-12).F;S.

A designed work experience program in either advertising, applied communication, electronic media/broadcasting, journalism, or public relations. Graded on an S/U basis.

COM 3901. Communication Practicum (1-3).F;S.

Students will produce a professional communication product with the approval and supervision of a communication faculty member to include research, analysis, design, and production. Prerequisites: communication major and junior standing, or approval of the instructor.

COM 3910. International Experience (3). On Demand.

This course is designed to assist students in the department's international internship program as they prepare themselves for the experience of completing an international internship. Prerequisite: open only to students participating in the department's international internship program. (MULTI-CULTURAL)

COM 3915. Career Connections (2). On Demand.

A course designed to allow junior- and senior-level communication majors to refine their understanding of, and preparation for, varied fields of communication. In order to make a better transition from the classroom to the workplace, students will interact with communication professionals who will speak about career opportunities, professional activities and current industry trends. Graded on an S/U basis.

COM 3928. Communication Research Methods (3).F;S.

This course is designed to increase students' knowledge of the foundations and types of research methods commonly employed in communication research. Both quantitative and qualitative methods will be taught. Students should gain a fuller understanding of the relationship between theory and research. They should also gain practical experience in employing at least one of the research methods in an original research project leading to a written report suitable for submission to an academic conference. Prerequisite: junior or senior standing, or consent of the instructor. (COMPUTER)

COM 4040. International Advertising (3). On Demand.

The course provides an overview of the ways globalization and multi-media conglomerates have changed the advertising industry. Prerequisite: COM 2700 or consent of the instructor. (MULTI-CULTURAL)

COM 4101. Advanced Speech Composition (3).S.

Theory and practice of writing the spoken word. Study of speech composition and the role of speech-making in various professional settings. Special emphasis upon style, organization, support, and criticism of the public speech with a primary emphasis upon manuscript speaking. Prerequisite: COM 2101 or permission of the instructor.

COM 4111. Rhetorical Theory and Criticism (3).F.

A study of classical and contemporary theories of rhetoric and rhetorical methods of cultural critique. Application of rhetorical theory to rhetorical events and situations. Prerequisite: junior or senior standing. (WRITING)

COM 4152. Advanced Organizational Communication (3).On Demand.

Application of communication methodology to the analysis of organizational communication processes. Students study methods of communication consulting, facilitation, and training. Prerequisite: COM 3152. [Dual-listed with COM 5152.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

COM 4210. Specialized Reporting (3).S.

GEN ED: Capstone Experience

This course is an advanced writing course in the journalism sequence. Focus is on writing for specific beats in the print media, including arts and entertainment, travel and leisure, health and the environment, sports and crime. Newswriting and news-feature writing skills for newspapers and magazines will be emphasized and analyzed. Prerequisite: COM 2610.

COM 4300. Media Sales (3).F;S.

A study of the techniques used by the mass media to sell space and time to advertisers. Included is a study of personal selling; company, product, and audience research; media-audience matches; and media sales presentations. Also examined are the strengths and weaknesses of a variety of print, radio and television advertising techniques and strategies. Prerequisite: COM 2300 or consent of the instructor.

COM 4302. Broadcast Performance Techniques (3).S.

A study and application of specific performance techniques (i.e., voice, body, manuscript usage, personality) related to the broadcast industry. Students will experience a variety of radio and television performance and announcing situations directed towards improving their broadcasting performance skills. Prerequisite: COM 3316.

COM 4315. Electronic Media Management (3).F;S.

GEN ED: Capstone Experience

The study of factors related to the management of broadcast and cable stations, including finances, human resources, programming, sales, regulation, and promotion and marketing. Prerequisites: COM 2300, COM 2316, COM 3316 and junior or senior standing, or consent of the instructor.

COM 4316. Video Production I (3).F;S.

The course introduces the student to the basic techniques of producing single camera, non-fiction programs. Students will produce programs that fall within a variety of genres, including news, public affairs, documentary, essay/commentary, PSAs and promotional. The course examines both the technical and analytical aspects of the production process. Areas covered include concept and storyline development, treatments, scripting, planning, camera techniques, lighting, editing, and exposure to non-fiction styles and genres. Prerequisites: COM 2316 and COM 3316; registration is restricted to students admitted to the B.S. degree in Communication, Electronic Media/Broadcasting.

COM 4317. Electronic Media Regulation (3).F.

Governmental regulation of broadcasting and electronic media, detailing the FCC and other agencies relationships; emphasizing early broadcast legal history, administrative rulemaking, programming, licensing, renewals, content controls, ownership, fairness, political advertising, copyright and emerging media. Prerequisites: COM 2300 and COM 2316.

COM 4318. Public Relations Practices (3).F;S.

An advanced course which uses case studies to examine public relations problems and their solutions. Students receive practical guidance in the creation of public relations messages and products. Prerequisites: COM 3318 and COM 3618, or permission of the instructor. (WRITING)

COM 4319. TV News and Sports Reporting (3).On Demand.

A course designed to allow students to research, write, produce and edit a number of electronic media/broadcasting projects suitable for television news and sports. Topics covered include news and sport videography and audio, and field production and editing. Prerequisites: COM 2612 and COM 4316.

COM 4400. Advertising Campaigns (3).F;S.

GEN ED: Capstone Experience

This course is designed to teach the student how to prepare an entire advertising campaign from start to finish. As such, it will incorporate knowledge gained from the variety of courses the student has had previously. Prerequisites: senior standing, COM 2700, and either COM 3302 or COM 3640, or permission of the instructor.

COM 4402. Advanced Advertising Campaigns (3).S.

A course designed to prepare students to apply the elements and conduct the strategic development of an advertising campaign for a national student competition. The course will cover advanced advertising campaign principles and techniques, and it will provide opportunities to implement both in an agency-like setting. Prerequisites: COM 4400 and permission of the instructor.

COM 4416. Video Production II (3).F;S.

The course is designed to give upper-level video production students an opportunity to produce professional quality, non-fiction programs, including news, public affairs, documentary, essay/commentary, magazine format, and promotional videos. The course expands on the production skills covered in Video Production I and provides more in-depth analysis of the production process. The course covers advanced production techniques, advanced edit techniques, budgets, copyright, grant writing, distribution, marketing, and career options. Prerequisites: COM 2316, COM 3316, and COM 4316; registration is restricted to students admitted to the B.S. degree in Communication, Electronic Media/Broadcasting.

COM 4418. Public Relations Seminar (3).F;S.

GEN ED: Capstone Experience

Examines the educational preparation and requirements, as well as the professional standards, for public relations practitioners. The course analyses developments which impact the interface between organizations, their publics, and the social environment in which they operate. It is also a critical study of the role of public relations in different organizational settings. Corequisite or prerequisites: COM 4318 and senior standing, or consent of the instructor.

COM 4420. Converged Media (3).F;S.

The course examines how technology has transformed traditional mass media, and prepares students for working in a converged media environment. Students will create multi-media content for the Department of Communication's converged media web site. Prerequisite: COM 2610, COM 3302, or COM 3618. (COMPUTER)

COM 4425. Task-Oriented Group Facilitation Methods (3).S.

Develop leadership and group facilitation skills through hands-on instruction that demonstrates how to conduct focused conversations, lead workshops, and accomplish action planning. Application opportunities using these skills include community development, organizational planning, education, government, and other occasions when people want to actively participate in the creation of their own futures. (Same as PLN 4425.) (SPEAKING)

COM 4432. Communication Studies Seminar (3).F;S.

GEN ED: Capstone Experience

This capstone course invites students to draw connections between their previous coursework and major works in the discipline, through discussions, presentations, and writing. Students will also construct a portfolio. Prerequisites: senior standing and must be admitted to the B.S. degree in Communication Studies.

COM 4510. Senior Honors Thesis (3). On Demand.

Independent study and research. Honors thesis directed by a member of the Department of Communication. Prerequisites: completion of 12 semester hours of departmental honors work and permission of the departmental honors coordinator.

COM 4550. Global Electronic Media Systems (3).F.

This course will explore the technical, economic, and regulatory changes to the electronic media in countries throughout the world to prepare students for careers in international electronic media. Prerequisite: COM 2300 or permission of the instructor.

Department of Military Science and Leadership (MSL)

Lieutenant Colonel David W. Cox, Chair

The Army ROTC program provides college men and women the best available training and experience in the art of leadership. This program includes instruction to develop self-discipline, physical stamina, and poise, as well as the organizational and motivational skills that contribute to success in any career.

The BASIC COURSE consists of the freshman and sophomore years of military instruction (MSL 1001, MSL 1002, MSL 2001, and MSL 2002) and is strictly voluntary. These courses are short (1 or 2 hour) courses providing an overview of the military with opportunities for outdoor training and adventure. Individuals taking these ROTC courses incur no military service obligations. Almost every student eligible to attend Appalachian State University is also eligible to take these courses.

The LEADER TRAINING COURSE (MSL 2003), a five week outdoor, challenging summer camp, may be substituted for the BASIC COURSE. This summer camp is normally taken between the sophomore and junior years. Graduates may be eligible to receive a scholarship covering tuition, fees, and a monthly stipend for their remaining two years of college.

Partial or complete BASIC COURSE credit is available for prior military service or previous ROTC training. Contact the Department of Military Science and Leadership for details.

The ADVANCED COURSE consists of junior and senior years of military instruction (MSL 3001, MSL 3002, MSL 3003, MSL 4001, MSL 4002) and successful completion of the ROTC National Advanced Leadership Camp (MSL 3003), normally taken between the junior and senior years. This course of instruction is offered to those cadets meeting the necessary qualifications. Upon successful completion of the advanced course, the cadet may be offered a commission as a Second Lieutenant in the U.S. Army, Army Reserves, or Army National Guard.

Minor in Military Science and Leadership (555/28.0301) (16 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/military-science-and-leadership-minor-555-2005-2013

Scholarships

Three-year and limited four-year scholarships are offered by the Department of the Army. These scholarships pay the full cost of tuition, a flat rate fee for textbooks, lab fees and other educational expenses for the duration of the award. They also provide a subsistence allowance of \$300 to \$500 a month up to 10 months of each academic year for which the award is in effect. Participation in the Army ROTC Scholarship Program does not preclude the holding of other scholarships. More information can be obtained from the recruiting officer or from the Chair of the Department of Military Science and Leadership.

Simultaneous Membership Program

Under this program, a student participates in either the National Guard or the Reserve and ROTC. Participation can lead to financial benefits of \$4,500 per year in federal tuition assistance, drill pay, the GI Bill, and the ROTC subsistence allowance. Total benefits can amount to more than \$70,000. In addition to this, a student who elects to serve in the National Guard or Reserve after earning a commission can qualify for two or three-year Guaranteed Reserve Forces Duty Scholarships which can be used to pay room and board costs. This scholarship can be worth approximately \$5,000 per semester. More information can be obtained from the recruiting officer or from the Chair of the Department of Military Science and Leadership.

Basic Course Qualification Requirements

A candidate for freshman and sophomore level ROTC training must:

1. Be of good moral character
2. Be a citizen of the United States
3. Be able to graduate before 30 years of age
4. Be physically able to participate in the program of instruction
5. Meet other entrance requirements as determined by the departmental chair, University policy, and current Army regulations

A student who does not meet all of the above requirements should consult with the Department of Military Science and Leadership to determine if waivers can be granted.

Basic Course Texts and Uniforms

Texts are either available through the University book rental system or they are furnished by the Department of Military Science and Leadership. Uniforms are furnished by the government. Students will be required to reimburse the government for loss of (or negligent damage to) uniform items or other equipment.

Advanced Course Qualification Requirements

A candidate for junior and senior level ROTC training must:

1. Meet all requirements for the basic course
2. Have a minimum of two years remaining at the University
3. Meet medical requirements for advanced course
4. Possess qualifications for becoming an effective Army officer
5. Have satisfactorily completed the basic course, received a waiver, have satisfactorily completed the Leaders Training Course, or have served as an enlisted person in the active or reserve armed forces with an honorable discharge and have completed basic training
6. Have satisfactorily completed loyalty requirements
7. Accept a commission if offered in either the active Army, Army Reserves, or National Guard
8. Meet other requirements as determined by the departmental chair, current Army regulations, and University policies

A student who does not meet all of the above requirements should consult with the Department of Military Science and Leadership to determine whether waivers can be granted.

Advanced Course Text and Allowances

Texts are either available through the University book rental system or they are furnished by the Department of Military Science and Leadership. Each cadet enrolled in the advanced course receives subsistence pay at the rate of between \$450 and \$500 per month for up to 20 months. They are paid a travel allowance to and from advanced camp. While at camp, cadets are paid approximately \$950. The total pay and allowances received while in the advanced course are approximately \$19,450 (at a minimum).

Courses of Instruction in Military Science and Leadership (MSL)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

MILITARY SCIENCE AND LEADERSHIP (MSL)

MSL 1001. Foundation of Officership (1).F.

The Foundation of Officership course introduces students to issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Additionally, the course addresses "life skills" including fitness and time management. MSL 1001 is designed to give the student an accurate insight into the Army profession and the officer's role within the Army. The course teaches leadership topics beneficial to any future leader as well as introducing students to a military lifestyle. The course is open to all students and has no military obligation.

The MSL 1001 Leadership Lab consists of skill training and confidence building in subjects such as rappelling, paintball, one rope bridge, military weapons firing, night compass course, orienteering, and other selected subjects.

MSL 1002. Basic Leadership (1).S.

The Basic Leadership course builds on the experience of the first term and further broadens the introduction to the Army as well as to the leadership skills and the "life skills" needed by an Army officer. The course covers a variety of leadership and communication topics including: goal setting, problem solving methodology, briefings, effective writing, and listening and speaking skills. MSL 1002 teaches leadership topics beneficial to any future leader as well as introducing students to a military lifestyle. This course is open to all students and has no military obligation.

The MSL 1002 Leadership Lab consists of skill training and confidence building in subjects such as rappelling, paintball, one rope bridge, military weapons firing, night compass course, orienteering, and other selected subjects.

MSL 1101. Army Physical Fitness (2).F;S.

GEN ED: Wellness Literacy

This course trains students in the physical fitness standards identified by the U.S. Army. This includes education on how constructive personal choices promote fitness, health, and wellness. The course prepares Army ROTC cadets to meet and exceed the physical requirements of the Army, but is also open to non-ROTC students. (CORE: PHYSICAL ACTIVITY/WELLNESS)

MSL 1102. Army Physical Fitness II (1).S.

This course is a continuation of MSL 1101, with more emphasis on student-led exercise sessions. Like MSL 1101, this course is specifically designed to prepare Army ROTC cadets to meet and exceed the physical requirements of the Army. It satisfies Cadet Command's requirements that all contracted ROTC cadets receive physical training and maintain the Army's individual fitness standards. MSL 1102 is an excellent preparation for the physical requirements of the MSL 3000 level courses. This course is also open to non-ROTC students. (CORE: PHYSICAL ACTIVITY/WELLNESS)

MSL 2001. Individual Leadership Studies (2).F.

This course studies individual leadership characteristics and styles and what makes them successful or unsuccessful in different situations and environments. The course also provides an introduction to practical leadership skills required of a small group leader. Course topics include: leadership principles and characteristics, military written and oral communications; use of the map and compass for land navigation; small unit tactical operations. MSL 2001 continues with leadership instruction appropriate for any future leader, but is especially useful for students demonstrating the potential and desire for possible service as a US Army officer. The course is open to all students and has no military obligation.

The MSL 2001 Leadership Lab includes all the lab topics of MSL 1001 with additional focus on small unit leadership opportunities for emerging leaders. This course may be taken in conjunction with MSL 1001.

MSL 2002. Leadership and Teamwork (2).S.

The Leadership and Teamwork course examines how to build successful teams, various methods for influencing action, the importance of timing the decision, and creativity in the problem solving process. Students are assisted through the officer pre-qualification process to insure their preparation to begin the demanding two-year Advanced Course curriculum that begins with MSL 3001. MSL 2002 is designed for students demonstrating the potential and desire for possible service as a US Army officer. The course is open to all students and has no military obligation.

The MSL 2002 Leadership Lab includes all the lab topics of MSL 1002 with additional focus on small unit leadership opportunities for emerging leaders. This course may be taken in conjunction with MSL 1002.

MSL 2003. ROTC Leader's Training Course (5).SS.

At the month long Leader's Training Course (LTC) students will be given the opportunity to learn, develop, and practice leadership within a challenging, stressful and competitive framework. The LTC environment (similar to the Outward Bound program) provides students an opportunity to demonstrate overall officer potential and characteristics such as loyalty, duty, respect, selfless-service, honor, integrity, personal courage and leadership. Successful completion of LTC requires a cadet to meet or exceed the standard in a variety of objective evaluations. Normally taken the summer following the sophomore year as substitute for the first two years of ROTC (ROTC Basic Course). This course fulfills the requirements for entry into the ROTC Advanced Course. Training is conducted at Ft. Knox, Kentucky, about an hour south of Louisville, Kentucky. Transportation and expenses are paid for by the government. To receive five hours credit, a student must register and pay a fee to the University. Prerequisite: completion of sophomore year of college, cumulative GPA of 2.0, and selection by the department.

MSL 2500. Independent Study (1-4).F;S.

MSL 3001. Leadership and Problem Solving (3).F.

Students conduct self-assessment of leadership style, develop a personal fitness regimen, and have the opportunity to learn how to plan and conduct individual/small unit tactical training while testing reasoning and problem-solving techniques. Students receive direct feedback on leadership abilities. MSL 3000 level courses prepare a student to become a commissioned officer in the US Army. Prerequisite: Selection by the department as well as successful completion of the Basic Course (first two years of ROTC) or its equivalent as approved by a Professor of Military Science and Leadership. Lecture three hours, laboratory three hours.

The MSL 3001 Leadership Lab places students in demanding leadership positions for training, coaching and evaluation. Labs cover a variety of tactical situations to prepare cadets for success at the National Advanced Leadership Camp.

MSL 3002. Leadership and Ethics (3).S.

Examines the role that communications, values, and ethics play in effective leadership. Topics include ethical decision-making, consideration of others, spirituality in the military, and survey Army leadership doctrine. Emphasis on improving oral and written communication abilities, and pre-camp orientation. MSL 3000 level courses prepare a student to become a commissioned officer in the US Army. Prerequisite: MSL 3001 or permission of a Professor of Military Science and Leadership. Lecture three hours, laboratory three hours.

The MSL 3002 Leadership Lab places students in demanding leadership positions for training, coaching and evaluation. Labs cover a variety of tactical situations to prepare cadets for success at the National Advanced Leadership Camp.

MSL 3003. ROTC Leadership Development Assessment Course (4).SS.

The 30-day National Advanced Leadership Camp (NALC) incorporates a wide range of subjects designed to develop and evaluate leadership ability. The challenges are rigorous and demanding, both mentally and physically. Advanced Camp tests intelligence, common sense, ingenuity and stamina. These challenges provide a new perspective on an individual's ability to perform exacting tasks and to make difficult decisions in demanding situations. Successful completion of this course (along with MSL 4000 level courses) leads to a commission as an officer in the US Army. Usually taken the summer following junior year. Training is conducted

at Ft. Lewis, Washington, about an hour south of Seattle. Travel and expenses are paid by the government. To receive four hours of credit, a student must register and pay a fee at the University. Prerequisites: Selection by the department and successful completion of MSL 3001 and MSL 3002.

MSL 3500. Independent Study (1–4).F;S.

MSL 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

MSL 3530–3549. Selected Topics (1–4). On Demand.

MSL 3823. American Military History (3).F;S.Odd-numbered years.(SS1.Even-numbered years.)

GEN ED: Historical Studies Designation; Local to Global Perspective (Theme: "Empire, Colonialism and Globalization")

This course explores the American military experience from its origins in the colonial period to the present day. It is designed to view military history from a variety of angles, through multiple perspectives and formats, and to broaden students' views of the American military establishment. We will examine traditional military topics, such as strategy and tactics, and combat operations, as well as exploring "new military history" topics, such as the interaction between war and society, civil-military relations, and the social history of soldiers. We will also explore how political, social, and cultural factors have influenced the nature of warfare and the military institution in American history. (Same as HIS 3823.)

MSL 4001. Leadership and Management (3).F.

Develops student proficiency in planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Students explore training management, methods of effective staff collaboration, and leadership and developmental counseling techniques. MSL 4000 level courses complete the student's preparation to become a commissioned officer in the US Army. Prerequisite: MSL 3002 or permission of a Professor of Military Science and Leadership. Lecture three hours, laboratory three hours.

The MSL 4001 Lab places senior cadets in leadership positions of the cadet corps to plan and execute the leadership training of the MSL 3001 cadets and their preparation for the National Advanced Leadership Camp.

MSL 4002. Officership (3).S.

Cadets study military law, small unit and staff operations, personal affairs, service customs, and officer orientation in preparation for graduation and commissioning. MSL 4000 level courses complete the student's preparation to become a commissioned officer in the US Army. Prerequisite: MSL 4001 or permission of a Professor of Military Science and Leadership. Lecture three hours, laboratory three hours.

The MSL 4002 Lab places senior cadets in leadership positions of the cadet corps to plan and execute the leadership training of the MSL 3002 cadets and their preparation for the National Advanced Leadership Camp.

MSL 4500. Independent Study (1–4).F;S.

Department of Technology and Environmental Design (TEC)

Jeffrey S. Tiller, Chair

Marie C. Hoepfl, Assistant Chair

Sidney G. Connor

Donald Corey

John R. Craft

Charles A. Debelius

Garner G. Dewey

Timothy Dolan

Susan C. Doll

David H. Domermuth

Richard A. Elaver

R. Chad Everhart

George B. Glisan

James B. Houser

Kevin R. Howell

Charles M. Kreszock

John S. Latimer

Kern Maass

Jeanne Mercer-Ballard

D. Jason Miller

Margot A. Olson

J. Alex Poorman

Richard S. Prisco

Brian W. Raichle

Jeffrey E. Ramsdell

Thomas M. Reeves

Eric F. Reichard

Jamie A. Russell

Dennis M. Scanlin

Michelle L. Surerus

Jerianne Taylor

Chip Williams

Yu-Ju Wu

Ok-Youn Yu

The Department of Technology and Environmental Design features a broad array of programs spanning the fields of technology and design, all of which are guided by the vision statement "Innovative Solutions for a Sustainable Future." The department has developed a reputation for research and development in the areas of green building practices, renewable energy, and design for the human environment with a mission to advance and apply knowledge within the respective disciplines to address societal needs. The mission is accomplished by 1) educating and mentoring students to consider multiple points of view, to solve problems creatively, and to make meaningful contributions in their fields; 2) conducting innovative research, design, and creative activities; and 3) serving the local and global community through outreach, development, and leadership that improves the world in which we live.

The Department of Technology and Environmental Design offers the following undergraduate degree programs:

Bachelor of Science degree in Appropriate Technology

Bachelor of Science degree in Building Sciences

with concentrations in Architectural Technology and Design or Construction Management

Bachelor of Science degree in Graphic Arts and Imaging Technology

Bachelor of Science degree in Industrial Design with concentrations in Furniture Design or Product Design

Bachelor of Science degree in Interior Design

Bachelor of Science degree in Technical Photography

Bachelor of Science degree in Technology Education (with teacher licensure)

with concentrations in Technology Education, Secondary Education or Trade and Industry

The Bachelor of Science degree in Appropriate Technology (578A/15.0505)

The program of study is available at: www.programsofstudy.appstate.edu/appropriate-technology-bs-578a-2012-2013

The Bachelor of Science degree in Building Sciences (577*/52.2001) has two concentrations, one in Architectural Technology and Design, and the other in Construction Management. *Freshmen entering this program are required to have a laptop computer according to specifications described at:* www.tec.appstate.edu/students-computer-specifications

The Bachelor of Science degree in Building Sciences with a concentration in Architectural Technology and Design (577B)

The program of study is available at: www.programsofstudy.appstate.edu/building-sciences-bs-architectural-technology-and-design-577b-2012-2013

The Bachelor of Science degree in Building Sciences with a concentration in Construction Management (577C)

The program of study is available at: www.programsofstudy.appstate.edu/building-sciences-bs-construction-management-577c-2012-2013

The Bachelor of Science degree in Graphic Arts and Imaging Technology (572A/50.0409)

GAIT Program Computer Requirement: All students entering this program are required to have a Macintosh laptop or notebook computer according to specifications described at: www.tec.appstate.edu/students-computer-specifications

The program of study is available at: www.programsofstudy.appstate.edu/graphic-arts-and-imaging-technology-bs-572a-2012-2013

The Bachelor of Science degree in Industrial Design (576*/50.0404) has two concentrations, one in Furniture Design, and the other in Product Design. *Freshmen entering this program are required to have a laptop computer according to specifications described at: www.tec.appstate.edu/students-computer-specifications. Students lacking proficiency in word processing, spreadsheets, internet, and email must take an introductory computer course.*

The Bachelor of Science degree in Industrial Design with a concentration in Furniture Design (576B)

The program of study is available at: www.programsofstudy.appstate.edu/industrial-design-bs-furniture-design-576b-2012-2013

The Bachelor of Science degree in Industrial Design with a concentration in Product Design (576C)

The program of study is available at: www.programsofstudy.appstate.edu/industrial-design-bs-product-design-576c-2012-2013

Sophomore Portfolio Review for Industrial Design Students - To support the professional orientation of the industrial design major and to assist the student in an appropriate career choice, all industrial design students must participate in the Sophomore Portfolio Review at the end of their sophomore year for admittance into the upper-level courses and to complete the industrial design curriculum.

- A. Industrial design students must complete the following sequence of courses for the industrial design major with a concentration in either Furniture Design or Product Design before the Sophomore Portfolio Review:
 1. INT 1001 Visual Literacy I
 2. INT 1002 Visual Literacy II
 3. IND 1010 CADD I: Imaging
 4. IND 2012 Product Design
 5. IND 2120 Materials and Processes I
 6. IND 2201 Design Drawing I
 7. IND 2301 Model Making (for students pursuing a concentration in Product Design)
 8. IND 2411 Introduction to Design Studio
 9. IND 2421 Preliminary Design Studio
- B. At the completion of the courses, students will be asked to present a portfolio to the industrial design faculty. The portfolio will include five examples from the above classes and other work deemed appropriate for the presentation. The portfolio should show a range of skills including:
 1. Drawing ability
 2. Craftsmanship of physical models
 3. Knowledge of computer programs
 4. Knowledge of different materials
 5. Show form sensibility

(Sophomore Portfolio Reviews will occur at the end of the spring semester.)
- C. Students who do not pass the Sophomore Portfolio Review will be required to pursue one or more of several steps before reapplying to present the Sophomore Portfolio:
 1. Consult with industrial design faculty to determine a plan for improvement of student's work
 2. Take action identified in the consultation to build skills and knowledge, thus creating work for resubmission
 3. Redo the portfolio and reapply for the review procedure either one week later or on the first day of the fall semester.
 4. Consider a related major or field

The Bachelor of Science degree in Interior Design (550A/50.0408)

Freshmen entering this program are required to have a digital camera and a laptop computer according to specifications described at: www.tec.appstate.edu/students-computer-specifications

The program of study is available at: www.programsofstudy.appstate.edu/interior-design-bs-550a-2012-2013

Freshman Portfolio Review for Interior Design Students - To support the professional orientation of the interior design major and to assist the student in an appropriate career choice, all interior design students must participate in the Freshman Portfolio Review at the end of their freshman year for admittance into the upper-level courses and to complete the interior design curriculum.

- A. Interior design students will complete the following sequence of courses for the interior design major before the Freshman Portfolio Review: INT 1001 (Visual Literacy I), INT 1002 (Visual Literacy II), INT 1100 (Interior Design Studio I), and INT 1300 (Introduction to Interior Design)
- B. At the completion of the courses, students will be asked to present a portfolio to the interior design faculty including:
 1. Selected examples from the above classes and other work deemed appropriate for the presentation
 2. A career goal statement plus individual evaluation of strengths and areas needing improvement by the student. Only students who have passed the Freshman Portfolio Review will be admitted to the upper-level courses (2000-4000) of the

interior design curriculum. *Freshman Portfolio Reviews will occur at the end of the Spring Semester. Passing the portfolio review allows a student a seat in the studio sequence beginning the following fall semester. The student must consult with the program coordinator regarding any desire to defer proceeding the following fall.*

- C. Students who do not pass the Freshman Portfolio Review will be required to pursue one or more of several steps before reapplying to present the Freshman Portfolio:
 - 1. Consult with interior design faculty to determine a plan for improvement of student's work
 - 2. Take action identified in the consultation to build skills and knowledge, thus creating work for resubmission
 - 3. Redo the portfolio and reapply for the review procedure. Students may resubmit to the next Freshman Portfolio Review **ONE TIME ONLY.**
 - 4. Consider a related major or field
- D. All transfer students who wish to be admitted into the upper-level (2000- 4000) interior design courses at Appalachian State University must complete either the Freshman Portfolio Review or the Transfer Portfolio Review. To be considered for transfer credit for any INT course, a portfolio of all work must be submitted and received prior to Reading Day of the Fall or Spring Semester prior to entering Appalachian State University. Without significant transfer credit in interior design courses, the B.S. degree in Interior Design will generally take four years to complete.

The Bachelor of Science degree in Technical Photography (579A/50.0406)

Freshmen entering this program are required to have a Macintosh laptop computer according to specifications described at: www.tec.appstate.edu/students-computer-specifications

The program of study is available at: www.programsofstudy.appstate.edu/technical-photography-bs-579a-2012-2013

The Bachelor of Science degree in Technology Education (545*/13.1309)[T] (with teacher licensure) has two concentrations, one in Technology Education, Secondary Education, and the other in Trade and Industry.

The Bachelor of Science degree in Technology Education (with teacher licensure) with a concentration in Technology Education, Secondary Education (545B)[T]

The program of study is available at: www.programsofstudy.appstate.edu/technology-education-bs-technology-education-secondary-education-545b-2012-2013

The Bachelor of Science degree in Technology Education (with teacher licensure) with a concentration in Trade and Industry (545C)[T]

The program of study is available at: www.programsofstudy.appstate.edu/technology-education-bs-trade-and-industry-545c-2012-2013

Minors in the Department of Technology and Environmental Design

Students not majoring in the Department of Technology and Environmental Design may earn one of the following minors:

Appropriate Technology Minor (544/15.0612)

The program of study is available at: www.programsofstudy.appstate.edu/appropriate-technology-minor-544-2012-2013

Building Science Minor (580/52.2001)

The program of study is available at: www.programsofstudy.appstate.edu/building-science-minor-580-2012-2013

Graphic Arts and Imaging Technology Minor (572/50.0409)

The program of study is available at: www.programsofstudy.appstate.edu/graphic-arts-and-imaging-technology-minor-572-2012-2013

Technical Photography Minor (582/50.0406)

The program of study is available at: www.programsofstudy.appstate.edu/technical-photography-minor-582-2012-2013

Graduate Degrees

The Department of Technology and Environmental Design offers the following graduate degree: a Master of Science degree in Technology with concentrations in Appropriate Technology, Building Science, Graphic Arts and Imaging Technology, Renewable Energy Engineering, and Sustainable Design and Construction. Persons interested in this degree are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Technology (TEC), Graphic Arts and Imaging Technology (GRA), Industrial Design (IND), and Interior Design (INT)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

TECHNOLOGY (TEC)

TEC 1017. Communications Technology (3).S.

An introduction to the study of communication systems, including: electronic data communications; technical drawing and CADD; optics; graphic production techniques; photography; audio; and video. Classroom presentations and activities will emphasize the design, use and impacts of communication technologies. Lecture two hours, laboratory two hours. (COMPUTER)

TEC 1022. Photographic Imaging I (3).F;S.

An introductory course in digital photography which will cover technical information about cameras, lenses, printing, cataloging processes, image editing and workflow practices. Students will also learn the foundations of composition for various genres of photography. Students will need access to a DSLR camera. A limited number are available for loan through the program. Studio five hours. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 1023. Introduction to Electronics (3).On Demand.

An introduction to electrical and electronic circuits. Topics included are Ohm's law, Kirchoff's laws, power, DC circuits, network theorems, and an introduction to AC circuits and commonly used electronic components. Theory is reinforced by experiments employing power supplies, circuit components, analog and digital meters, and the oscilloscope. Lecture two hours, laboratory two hours. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 1112. Digital Photography (3).F;S.

An introductory course in digital photography that will cover technical information about digital cameras, image editing software, inkjet printmaking, and presentation of photographic images. Lecture two hours, laboratory two hours.

TEC 1123. AC/DC Circuit Analysis (3). On Demand.

An introduction to capacitance, magnetic circuits, inductance and AC circuit analysis methods. Topics included are transient behavior of currents and voltages, electric and magnetic fields, magnetic circuits, AC circuit analysis, resonance, and network theorems. Theory is reinforced by experiments employing signal generators, resistive and reactive circuit components, meters, and the oscilloscope. Lecture two hours, laboratory two hours. Prerequisite: TEC 1023. Prerequisite or corequisite: MAT 1110. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 1728. Architectural Graphics and Computer Modeling (3).F;S.

Fundamentals of architectural graphics including basics of construction, sketching, architectural drafting conventions, CAD techniques, BIM techniques, pictorial drawing, dimensions, sections, and working drawings. Selected assignments from this course will be appropriate for inclusion in student portfolios. Lecture two hours, laboratory two hours. Prerequisite or corequisite: TEC 2708 (Construction Technology and Building Codes).

TEC 2004. Introduction to Metals Technology (3).On Demand.

Experience-centered exploration into the sub-fields of metals technology with emphasis given to both the unique and supportive roles the metals industry plays in the total industrial scheme. Specific areas to be covered are: the nature and characteristics of metals, designing metals for manufacturing and production, layout techniques, bench metals, sheetmetal fabrication, fastening techniques, foundry, forging and heat treating. Lecture two hours, laboratory two hours.

TEC 2005. Wood Technology (4).On Demand.

Introduction to woodworking with wood and the woods industry; care and use of basic woodworking tools and machines; processes and techniques involved in the planning, designing, jointing, shaping, and finishing of wood materials in the furniture industry. Lecture two hours, laboratory four hours. Prerequisite: IND 1001.

TEC 2008. Plastics Technology (3). On Demand.

Introduction to materials and processes of the plastic industry. Laboratory experiences will include a variety of techniques and procedures utilizing these materials and processes. Lecture two hours, laboratory two hours. (WRITING)

TEC 2012. Production Techniques in Graphic Arts (3). On Demand.

Theory and application of different production techniques in photo offset lithography and auxiliary areas. The course will operate in the same manner as a commercial print shop. Lecture one hour, laboratory four hours.

TEC 2022. Photographic Imaging II (3).F;S.

A continuation of TEC 1022 (Photographic Imaging I) that covers advanced photographic processes and practices and will investigate control systems for exposure and development, the zone system, lighting, film processing, digital imaging processes and printing. Students will improve on their composition and photographic production values. Students will need access to a DSLR camera. A limited number are available for loan through the program. Prerequisite: TEC 1022 or permission of the instructor. Studio five hours. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 2029. Society and Technology (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Sustainability and Global Change")

This course is designed to provide students with an understanding of the symbiotic relationship between technology and society. Examples of these relationships will be taken from historical accounts and from analyses of contemporary societies both in industrialized and non-industrialized countries. Lecture three hours. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

TEC 2032. History of Photography (3).F.

This course examines photography in a historical context from the beginning of the 19th Century through mid 20th Century. This comprehensive study of the technical and creative evolution of photography will feature significant individuals, their styles and corresponding historical events. Emphasis shall be placed on the development of photography in relation to developments in science, technology, society, the arts and politics. Lecture three hours. (CROSS-DISCIPLINARY)

TEC 2043. Introductory Digital Electronics (3). On Demand.

An introduction to number systems and codes, Boolean algebra and combinational logic circuits, integrated circuits and logic families, flip-flops, computing circuits, counters and registers. Topics included are switching function reduction and Karnaugh maps, integrated circuit specifications, circuit analysis, logic circuit and sequential machine design. Theory is reinforced by laboratory experiments where logic circuits, sequential machines, etc. are constructed and evaluated. Lecture two hours, laboratory two hours. Prerequisite: TEC 1023. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 2052. Form and Media in Photography (3).F;S.

Form and Media in Photography is designed to improve the visual literacy and compositional awareness of students intending to be Technical Photography majors or minors. The course will focus on current trends in commercial imaging and usage in a variety of media. Students may explore photographic design and aesthetic elements in catalogs, editorial magazines, corporate media, web sites, packaging, and retail venues, and other appropriate media outlets. The use of emerging media and video as it relates to photography in these areas may also be studied. Prerequisite or corequisite: TEC 2022.

TEC 2062. Issues in Contemporary Photography (3).S.

This course will provide students with an understanding of the theoretical, critical, and professional concepts in contemporary photography. Topics may include but are not limited to, how the roles of philosophy, art history, science, technology, literature, psychology, marketing, consumer trends and consumption are relevant to photography and the various genres within the field. Students will broaden their understanding of these issues through readings, lectures, discussions, assignments, critiques, and presentations by professionals within the field. Prerequisite: TEC 2022.

TEC 2108. Introduction to Power and Energy Technology (3). On Demand.

An introduction to the study of sources, conversion, controlling, transmitting, and using power and energy. Emphasis will be placed on external, internal and electrical power and energy converters. Lecture two hours, laboratory two hours. (WRITING)

TEC 2113. Advanced Digital Photography (3).F;S.

This course covers advanced digital photographic processes which may include: control systems for exposure, capture, editing, color profiling, calibration, and image presentation. Students will gain advanced digital image editing skills and workflow methodology. Prerequisite: TEC 2022 or permission of the instructor. Lecture two hours, laboratory two hours.

TEC 2116. Ceramic Technology (3).F;S.

Exploratory experiences with ceramic materials that emphasize the application and forming processes for industrial use. Specific areas covered are: materials, construction, jiggering, slip casting, molding, tech. glazing, kilns, and firing tech. Lecture two hours, laboratory two hours.

TEC 2188. Transportation Systems and Devices (3).F.

A study of the history and development of transportation systems and devices and the impact of transportation technologies on society. The student will explore the function, characteristics and structure of land, air, water and space transportation systems. Lecture two hours, laboratory two hours. (SPEAKING)

TEC 2500. Independent Study (1–4).F;S.

Approved contract is required.

TEC 2601. Energy Issues and Technology (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Global Resources")

This course will explore the various forms of energy and will examine the complete range of energy conversion systems existing in the world today. Students will examine energy resources, their economic and environmental impacts, and technologies used to exploit them. The course consists of three major sections: principles of power and energy, conventional energy resources, and renewable energy resources. Lecture three hours. (CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

TEC 2708. Construction Technology and Building Codes (3).F;S.

This course provides students with an introduction to the construction process, building materials and designs, management issues, and building codes. Emphasis is given to contemporary trends in residential and commercial construction, with considerable focus on different building types, energy efficient and high performance buildings and building codes. The course includes a lab in which students are introduced to construction management techniques and participate in hands-on construction activities.

TEC 2718. Building Mechanical Systems (3).F;S.

This course introduces students to the design and installation of the mechanical systems in buildings - water supply and waste (plumbing); electrical; and heating, ventilation and air conditioning (HVAC). The course combines lectures on the theory, practice, drawing methods, and building codes related to these systems with hands-on procedures.

TEC 2758. Surveying, Soils and Foundations (3).F;S.

This course covers construction from initial site investigation through foundations. Key topics include: soils, soil testing, structural foundation design, surveying, site layout, site plans, and foundation construction. Prerequisite: MAT 1025.

TEC 2803. Introduction to Industrial Applications of Computers (3). On Demand.

An introduction to industrial applications of mainframe and microcomputers; to include BASIC programming, an overview of machine codes, input/output devices, and common industrial applications such as computer-aided drafting (CAD) and computer-aided manufacturing (CAM). Lecture two hours, laboratory two hours. (WRITING; COMPUTER)

TEC 3004. Welding (3). On Demand.

This course covers information about welding safety, equipment, materials, and applications of arc, oxy-acetylene, and inert gas techniques to include typical welding positions and welding ferrous and nonferrous metals. Lecture one hour, laboratory four hours. Prerequisite: TEC 2004.

TEC 3005. Professional Photographic Practices (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course is designed to introduce the upper level photography major to best professional practices for the photography proprietor/entrepreneur. Topics may include intellectual property law, tax obligations and reporting requirements, employment law, insurance responsibility, and renters' rights and obligations under a lease. In addition, the course may cover software solutions to estimating and bidding jobs, tracking expenses, invoicing clients, and developing legal contracts. The course will also cover marketing, promoting and advertising options. By the end of the course, students will have developed a business plan, a financial statement, marketing materials, and have created a visual identity (logo/brand) to take into the marketplace. Prerequisites: ENG 2001 or its equivalent and TEC 2022. (WRITING)

TEC 3007. Fundamentals of Computer Numerical Control (3). On Demand.

Underlying concepts, activities and processes used in Computer Numerical Control/Computer Aided Manufacturing. Students will use microcomputers, CAD, CNC, and CAM software to program and operate various machines used in manufacturing, as well as utilize computers for other operations necessary for a computer integrated manufacturing environment. Lecture two hours, laboratory two hours. (COMPUTER)

TEC 3009. Introduction to the Technology Teaching Profession (3).F.

GEN ED: Junior Writing in the Discipline (WID)

An introduction to the career and technology education curriculum, as well as the professional roles and responsibilities of Technology Education and Trade and Industry teachers. Course expectations include lab activities related to career and/or technology education curriculum in North Carolina, interviews with master teachers, and field experiences in regional Career and Technical classrooms at the middle and high school levels. Prerequisite or corequisite: TEC 2029. Prerequisite: ENG 2001 or its equivalent. (WRITING)

TEC 3010. Shot of the Day (1).F.

This course requires the student to produce one photograph each and every day of the semester with weekly critiques to evaluate cohesiveness, production value, compositional strength, and technical control. Prerequisites: junior standing and TEC 2022. Open only to Technical Photography majors or minors.

TEC 3013. Electronic Communications (3). On Demand.

A study of modern electronic communications systems. Topics included are the representation of information by electronic signals, encoding, modulation, multiplexing, bandwidth and the transmission and reception of signals. Additionally, an introduction to communications media, modern networking, protocols, etc. is presented. Theory is reinforced by laboratory experiments. Lecture two hours, laboratory two hours. Prerequisite: TEC 1023.

TEC 3020. Junior Photographic Portfolio (1).S.

This course requires the student to develop two small portfolios throughout the term, each along a single theme. Weekly critiques and discussions will evaluate student progress and provide guidance for improvement. Prerequisites: junior standing and TEC 2022. Open only to Technical Photography majors or minors.

TEC 3025. Advanced Wood Technology (4).On Demand.

Advanced machine tool operations, furniture construction, and a study of general materials used in the furniture industry. Lecture two hours, laboratory four hours. Prerequisite: TEC 2005.

TEC 3038. Commercial Construction Technology (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course introduces students to the technical, economic and managerial aspects of the commercial and industrial construction industries. Primary emphasis is on the equipment, materials, and construction processes used in commercial construction. Lecture three hours. Prerequisites: ENG 2001 or its equivalent, MAT 1025, TEC 2708, and TEC 2758. (WRITING)

TEC 3039. Materials Science (3).F;S.

An in-depth study of the structure, characteristics, analysis, and application of modern engineering materials, with an emphasis on the processing/structure/properties/performance interrelationship. Topics include atomic structure and bonding, crystal structure and imperfections, solidification, mechanical properties, strengthening mechanisms, failure analysis, phase diagrams, heat treatment, corrosion and degradation, and materials characterization techniques.

TEC 3053. Electronic Troubleshooting Techniques (3). On Demand.

A study of the methods used to locate faulty components and other sources of equipment failure in modern electronic systems. Topics included are functional analysis, diagnostics, performance verification, and repair methods. Lecture two hours, laboratory two hours. Prerequisite: TEC 2043. (COMPUTER)

TEC 3054. Metals Technology (3). On Demand.

An in-depth, experience-centered examination of metal processing techniques. This course concentrates on advanced machine and non-machine metal manufacturing techniques. Emphasis will be placed on individual problem solving. Lecture two hours, laboratory two hours. Prerequisite: TEC 2004.

TEC 3111. Portfolio Development (3).F;S.

As students prepare for careers in a design field they should be aware of the importance of having a strong portfolio when looking for a job. The portfolio is one of the primary means of communication to show what one can do, and how one thinks or goes about solving a problem. This course will lead the students into the process of building their portfolios to a level that will allow them to be able to begin to compete for the jobs that are out there.

TEC 3113. Administering Desktop Operating Systems (3). On Demand.

This course provides students with experience in installation, configuration, troubleshooting, and administration of desktop operating systems. A wide variety of topics will be covered, including: installation techniques, storage management, hardware, security, and printers. Lecture two hours, laboratory two hours. Prerequisite: TEC 2803.

TEC 3133. Server Based Operating Systems (3). On Demand.

This course provides students with experience in installation, configuration, troubleshooting, and administration of server based operating systems. A wide variety of topics will be covered, including: storage management, network hardware, network protocols, and network printers. Lecture two hours, laboratory two hours.

TEC 3153. Advanced Electronic Troubleshooting Techniques (3). On Demand.

This course is a continuation of TEC 3053, Electronic Troubleshooting Techniques. A study of the methods used to locate faulty components and other sources of equipment failure in modern electronic systems. Topics included are functional analysis, diagnostic, performance verification, and repair methods. Lecture two hours, laboratory two hours. Prerequisite: TEC 3053.

TEC 3312. View Camera (3).F.

This course will introduce the student to making photographs with the 4x5 view camera. This is a major tool of the professional photographer and the following information will be covered: the view camera and its basic parts, basic view camera operations, advanced view camera controls, and materials, processes, and accessories associated with the view camera. TEC photography majors should have sufficient knowledge and understanding to utilize exposure and development controls for b/w films (TEC 2022). A primary concern in this course will be visual advantages of the view camera. The goal will be a portfolio which demonstrates your technical and visual awareness. Studio five hours. Prerequisites: TEC 1022 and TEC 2022.

TEC 3332. Field Experience in Technical Photography (1-3).F;S.

This course allows Technical Photography majors to earn credit for professional experiences outside of the classroom environment. These experiences include, but are not limited to, attending professional conferences, seminars, trade association fairs, field photographic experiences such as international program offerings and extended photographic field trips. This course may be repeated for credit barring duplication. Prerequisite: permission of the instructor.

TEC 3342. Documentary Photography (3).S.

Documentary photography exposes students to the work of a number of great documentary photographers and photojournalists, as well as to writing about the documentary tradition. Students work throughout the term on a photo documentary project of their own, attempting to reduce a tiny area of the moving world to a set of still images that convey what the viewer needs to know about what they saw without hearing the sounds, smelling the odors, seeing the motion, or experiencing what was happening outside the viewfinder. Students also write papers about the subjects of their photo documentaries. Studio five hours.

TEC 3412. Methods and Materials of Technical Photography (3).F;S.

This course will offer the student information and hands-on experience in historical, contemporary and emerging technologies related to the technical photography industry. This course may be repeated for credit barring duplication. Prerequisites: TEC 1022 and TEC 2022 or permission of the instructor.

TEC 3422. Studio Photography (3).F.

An introductory course to studio photography that covers studio lighting and large format cameras for industrial/product and portrait photography. Prerequisite: TEC 2022 or permission of the instructor. Studio five hours. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 3500. Independent Study (1-4).F;S.

Approved contract is required.

TEC 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract is required.

TEC 3522. Video Production for Photographers (3).F;S.

This course will utilize the audio and video capabilities of today's HD/SLR cameras and explore how photographers can create compelling and complex visual narratives for their clients in the commercial and corporate marketplace. Topics may include advanced technical techniques for the use of different audio microphones, best practices in recording audio for editing, how to light and shoot for motion, time lapse and animation of stills, conducting and shooting interviews, and basic non-linear editing techniques. Course assignments are to be completed to professional standards. Students will need access to a video capable DSLR camera. A limited number of cameras are available for loan through the program. Prerequisite: TEC 3422 or permission of the instructor.

TEC 3530-3549. Selected Topics (1-4). On Demand.

TEC 3552. Technical Assistant (1).F;S.

A supervised, meaningful, planned and evaluated laboratory assistant experience. Students enrolled in this course will act as instructional aides and program assistants within various technology courses and labs. Barring duplication, this course may be repeated for a total credit of four semester hours. Prerequisite: junior or senior standing.

TEC 3604. Sustainable Transportation (3).F;S.

This course will introduce students to emerging technologies and strategies for creating sustainable transportation systems. Specific topics may include: public transportation strategies, bicycle technologies, electric vehicles, energy efficient transportation options, and alternative fuels such as biodiesel, alcohol, natural gas, and hydrogen. The environmental, social, economic, and technological aspects of these options will be explored. Students will complete a significant independent project. Lecture three hours. Prerequisites: TEC 2601 and TEC 3638, or permission of the instructor.

TEC 3605. Sustainable Resource Management (3).F.

This course will introduce students to material efficiency strategies, recycling, composting, and the concept of life cycle design. A range of resource management philosophies, technologies and techniques will be discussed and analyzed. Students will complete a significant independent project. Lecture three hours. Prerequisite: TEC 2029 or permission of the instructor.

TEC 3606. Sustainable Water and Wastewater Technology (3).S.

This course will introduce students to both traditional and alternative water and wastewater treatment methods and technologies. Students will study how to analyze the water cycle and how to develop water management strategies which are both economically and environmentally sustainable. Topics may include water availability, water quality and purification techniques, water quality assessment, water pumping, efficiency, grey water, composting toilets, "living machines", and water policy. Students will complete a significant independent project. Lecture three hours. Prerequisite: TEC 2029 or permission of the instructor.

TEC 3607. Electro/Mechanical Systems (3).On Demand.

A study of mechanical systems and controls used in industry today. Basic mechanical, electrical, hydraulic, and pneumatic systems and their components will be included in the classroom activities. Lecture two hours, laboratory two hours.

TEC 3638. Foundations of Appropriate Technology (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course will explore through writing current topics in the appropriate technology field. Assignments will involve writing with feedback. Topics for writing assignments may include technical reports, white papers, system documentation, opinion pieces, summaries, literature reviews, experimental methods, and data analyses. The APA format will be stressed. Lecture three hours. Prerequisites: TEC 2029 and TEC 2601, or permission of the instructor, and ENG 2001 or its equivalent. (WRITING)

TEC 3718. Construction Estimating (3).F;S.

This course provides students with the opportunity to explore and develop estimating skills used in the construction industry. Course material includes estimating unit costs of building components, quantity take-offs, and preparation of an overall project bid. Students prepare estimates using self-developed computer spreadsheets and are exposed to commercially available estimating software. Prerequisites: MAT 1025 or higher, TEC 2708, TEC 3038, and basic knowledge of computer word processing, Internet procedures, and spreadsheets. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 3722. Editorial Photography (3).F;S.

Editorial Photography is an advanced three credit hour course that emphasizes the tools and lighting techniques of the professional editorial and corporate/industrial photography marketplaces. Topics may include studio lighting, DSLR camera usage, and various location lighting techniques. Students will learn about business procedures and markets specific to editorial photography. Prerequisite: TEC 3422 or permission of the instructor.

TEC 3728. Residential Architecture (3).F;S.

This course will introduce students to the basic concepts of architectural design and some of the most important architects in recent history. The course will present the tools, processes, graphic conventions, and standards used in design and construction documents of residential construction. As a final project, students will design a residence and prepare computerized construction drawings. Prerequisites: TEC 1728 and TEC 2708, or permission of the instructor.

TEC 3738. Statics and Strength of Structures (3).F;S.

This course utilizes a practical approach to introduce students to the principles and physical concepts of statics and strength of materials related to construction. Statics is the study of bodies and forces in equilibrium. The study of bridge types, trusses, and other structures will be integrated into the coursework in order to provide a practical framework for the subject matter. Lecture three hours. Prerequisites: MAT 1025, PHY 1104, TEC 1728, TEC 2708, TEC 2758, and TEC 3039.

TEC 3748. Building Science (3).F;S.

This course introduces students to the complex ways in which buildings interact with their environment. Topics may include indoor air quality, building durability, energy efficiency, and client comfort. Students will use building diagnostic equipment to test for house

and duct leakage, indoor air quality, humidity, and air flow. The course also emphasizes interpreting and translating these findings into concise summaries as well as comprehensive written reports. Prerequisites: TEC 2708 and TEC 2718, MAT 1020 or higher, or permission of the instructor. (WRITING; CROSS-DISCIPLINARY; NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

TEC 3803. Network Administration (3). On Demand.

Students in this course will study basic strategies to manage, monitor, configure, and troubleshoot network services. Data security and integrity, and user management will be the main emphasis of the discussions. Lecture two hours, laboratory two hours. Prerequisite: TEC 3133.

TEC 3807. Safety (1). On Demand.

A comprehensive coverage of occupational safety and health. Topics include accident causation, OSHA, workers compensation, ergonomics, stress, industrial hygiene, specific industrial hazards, and disease transmission.

TEC 3900. Industry Internship (1–3). On Demand.

Field experience or employment in the area of the student's interest. Prerequisite: 16 hours of coursework in the major must be completed. Graded on an S/U basis. (Hours requirement for one credit hour is 160 hours, with 80 hours required for each additional credit.)

TEC 4093. Senior Design and Fabrication Project (3). On Demand.

A course in research and development of electronic systems. System design and integration will be emphasized. With the guidance of the instructor, students will identify a need, and develop an appropriate design. The design will be implemented and evaluated using modern components and subsystems. Lecture two hours, laboratory two hours. Prerequisite: TEC 3803.

TEC 4103. Leadership in Technical Settings (3). F; S.

This course provides an introduction to the nature of leadership in technical settings. Special emphasis is on behavior of individuals and groups in organizations. Students will begin to develop their own views of leadership based on theory, research, and experience. Lecture three hours.

TEC 4407. Production Planning and Control (3). On Demand.

An applied study of process planning and production control systems used in modern manufacturing. To include such topics as: production planning, automation, time and motion study, order control, flow control and quality control, and plant layout. Lecture two hours, laboratory two hours. (SPEAKING)

TEC 4412. Fashion and Beauty Portraiture (3). S.

Students in this advanced course will review the history of fashion and beauty photography, explore current trends in the industry, and survey the many markets and applications for fashion and beauty imagery. Students will have the opportunity to work with models - both volunteer and professional - make-up artists, hair stylists, and wardrobe stylists in learning how to produce a professional fashion or beauty shoot. Each student will be encouraged to develop her or his own style through fashion editorial assignments, beauty advertising assignments, and testing with models, both in the studio and on location. Working digitally, students will also have the opportunity to learn how to use a wide range of lighting and camera controls specific to beauty photography in order to establish a color managed workflow to guarantee consistency of image production from capture through final delivery of images. Lecture two hours, studio two hours. Prerequisite: TEC 3422 or permission of the instructor.

TEC 4422. Product Photography (3). F.

This advanced course will emphasize the tools and techniques of the professional photographer. Studio lighting, large format cameras, and color transparencies will be primarily used, and the student is expected to have working knowledge of these. Assignments will be expected to be completed to professional standards. Lecture, critique, three hours. Prerequisites: TEC 3312 and TEC 3422.

TEC 4432. Photographic Portfolio (3). F; S.

GEN ED: Capstone Experience

This senior level course is designed for the major in Technical Photography. The course will prepare the graduating senior to apply for employment in the field of professional photography or admission to graduate school. Topics covered will include letters of introduction, resumes, portfolio production and presentation, preparing exhibits, and web pages. Through the production of the final portfolio, students will demonstrate their technical skills, visual communication ability, knowledge of theory in design, and awareness of the global market. Prerequisite: senior standing. Open only to Technical Photography majors. Lecture two hours, critique two hours.

TEC 4555. Contemporary Industrial Finishing (2). On Demand.

Care and maintenance of finishing equipment; selection and use of spray equipment; preparation of the surface to be finished,

staining and filling undercoating, top coating, oil finishes, application of simple and synthetic finishes. Lecture one hour, laboratory two hours. Prerequisite: TEC 2005. [Dual-listed with TEC 5555.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4565. Applied Furniture Design and Construction (4). On Demand.

The study of traditional and contemporary furniture, and its importance, design, and construction procedures. The student may design and construct a piece of traditional or contemporary furniture. Lecture two hours, laboratory four hours. Prerequisite: TEC 3025. [Dual-listed with TEC 5565.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4572. Production Management (3). On Demand.

Practical management techniques and experience in the areas of sales, finance and high, middle, and lower level personnel management in an active printing production facility. This course will be taught concurrently with TEC 2012 Production Techniques in Graphic Arts. Lecture one hour, laboratory four hours. Prerequisite: TEC 2012.

TEC 4573. Control System Technology (3). On Demand.

A detailed study of the architecture of modern programmable control systems. The course will include computation, machine representation of information, storage structures, buses, input/output interfacing, peripheral devices, and instruction codes. Theory to be reinforced by hands on experience. Some theory and practical experience in Programmable Logic Controllers (PLC) will be introduced. Lecture two hours, laboratory two hours. [Dual-listed with TEC 5573.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4576. Production Techniques in Industrial Crafts (3). On Demand.

An analysis of functional design and production methods used in industrial crafts. Individual projects designed to employ various technical and mechanical methods of production to leather, ceramic, metals and combination of these craft materials. Lecture two hours, laboratory two hours. Prerequisite: TEC 2116 or permission of the instructor.

TEC 4592. Advanced Screen Process Printing (3). On Demand.

Advanced laboratory practice in transfer and direct photographic screen printing with emphasis on multicolor printing, cylinder printing and finishing techniques. Lecture one hour, laboratory four hours. Prerequisite: GRA 2012. [Dual-listed with TEC 5592.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4596. Design and Material Development for Industrial Crafts (3). On Demand.

An analysis of the development processing, and finishing techniques used for ceramics, leather, and non-metal materials. Emphasis is on exploratory problems and the application of these materials to the design of industrial craft products. Lecture two hours, laboratory two hours. Prerequisite: TEC 2116 or permission of the instructor.

TEC 4607. Wind and Hydro Power Technology (3).F;S.

This course will introduce students to the basic concepts, tools, techniques and materials needed to design and construct systems that convert wind and hydro resources into electricity. Students will study how to measure these renewable resources and to estimate the power that could be produced from them. They will also have the opportunity to learn how to design and construct complete renewable electricity systems and become familiar with many contemporary products used in renewable electricity systems. The course will include classroom and "hands-on" design, construction and possibly some field trip experiences outside of class. Lecture two hours, laboratory two hours. Prerequisites: TEC 1728, TEC 2029, TEC 2601, TEC 2708, TEC 2718, and TEC 3638 or permission of the instructor. [Dual-listed with TEC 5607.] Dual-listed courses require senior standing.

TEC 4608. Photovoltaic System Design and Construction (3).F;S.

This course will introduce students to the basic concepts, tools, techniques and materials needed to design and construct systems that convert solar resources into electricity with photovoltaic (PV) technologies. Students will study how to assess the solar resources available at a particular site and how that information can be used to properly design PV systems. They will also have the opportunity to learn how to design and construct complete code compliant photovoltaic systems and become familiar with contemporary trends and products. The course will include classroom and "hands-on" design, construction and possibly some field trip experiences outside of class. Lecture two hours, laboratory two hours. Prerequisites: TEC 1728, TEC 2029, TEC 2601, TEC 2708, TEC 2718, and TEC 3638 or permission of the instructor. [Dual-listed with TEC 5608.] Dual-listed courses require senior standing.

TEC 4618. Sustainable Building Design and Construction (3).F;S.

This course introduces students to the concepts and best practices related to sustainable building design and construction. Course topics include green building certification programs, sustainable building design software, high performance construction practices, resource efficient material selection, sustainable site planning, water efficiency, indoor air quality, and passive solar design. The course also explores a variety of unconventional building techniques and building materials such as straw bale, adobe, cob, and

geodesics. Other topics discussed include sustainable community design, low impact development, composting, recycling, and grey water systems. Prerequisites: TEC 2708 and TEC 2718 or permission of the instructor. [Dual-listed with TEC 5618.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4619. Curriculum Development in Career and Technology Education (3).SS.

Planning and development of teacher- and student-directed activities that align with state curriculum models. Students will create instructional videos and a variety of computer-generated instructional materials for use in technology education and other career and technical education programs. Emphasis is also placed on assessment strategies and on locating, evaluating, and revising existing instructional materials including computer-based materials. Lecture three hours. [Dual-listed with TEC 5619.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4628. Solar Thermal Energy Technology (3).F;S.

This course will introduce students to the basic concepts, tools, materials and techniques needed to convert solar energy into heat. Specific technologies to be studied include solar cookers, solar dryers, solar water heaters, solar water pasteurization/distillation, solar greenhouses/coldframes, and some house heating systems. Students should develop skills in the use of tools, materials, and processes which effectively and efficiently capture and convert the sun's energy into thermal energy. The course will include traditional classroom and "hands on" design, construction and testing activities. Lecture two hours, laboratory two hours. Prerequisites: TEC 1728, TEC 2029, TEC 2601, TEC 2708, TEC 2718, and TEC 3638 or permission of the instructor. [Dual-listed with TEC 5628.] Dual-listed courses require senior standing.

TEC 4629. Organization and Management of Career and Technology Education (3).S.

Instruction and laboratory experiences in the organization and management of technology education programs, including: selection and sources of equipment and supplies; facility planning; safety organization and management concerns; scheduling; student evaluation; and discipline. Computer applications incorporated throughout. Lecture three hours. (WRITING; COMPUTER) [Dual-listed with TEC 5629.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4638. Contemporary Problems in Appropriate Technology (3).S.

GEN ED: Capstone Experience

This course is designed to provide students with an overview of contemporary problems facing the Appropriate Technology movement such as affordable and efficient alternative energy systems, small scale production systems, waste management and recycling, bioregional development, community and shelter design and technology transfer methodology. Each student will have the opportunity to explore in-depth a problem of their choosing and will be given guidance in the identification, definition and analysis of their chosen problem. Both library research and prototype or model construction will be required. Lecture three hours. Prerequisite: TEC 4608 or permission of the instructor. (WRITING; SPEAKING) [Dual-listed with TEC 5638.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4639. Career and Technical Student Organizations (3).S.

An in-depth study of career and technical student organizations (CTSOs) and how to organize and manage a local chapter. Related activities such as service learning, establishing an advisory board, and career planning will also be covered. Lecture three hours. [Dual-listed with TEC 5639.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4649. Cooperative Vocational and Industrial Education (3).On Demand.

Organization and administration of a cooperative program for vocational or interdisciplinary areas. Included are locating and maintaining training stations and developing training plans. Lecture three hours.

TEC 4660. Instructional Strategies in Career and Technology Education (3).F.

The study of instructional strategies appropriate for use in trade and industry (grades 9-12) and technology education (grades K-12) classrooms. Class discussions will focus on learning theory, design-based instruction, and standards-based instructional planning. Students will prepare lesson plans, prepare and deliver presentations and demonstrations, and engage in K-12 classroom-based observations. Lecture three hours. (SPEAKING) [Dual-listed with TEC 5660.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4667. Housing and Home Furnishings Seminar (1).On Demand.

A seminar structured to prepare managers and leaders for careers in industry with emphasis on home furnishings, construction, and design. A highly interactive, open course with limited enrollment and guest speakers. Two-hour seminar, one day per week. The course includes an all day trip to the High Point furniture market. Graded on an S/U basis.

TEC 4700. Biofuels Technology (3).F;S.

An examination of evolving biofuel technologies such as biodiesel, alcohol, cellulose products, and methane which are being de-

veloped to displace depleting fossil fuels (diesel, gasoline, natural gas, and coal). This course will introduce students to the basic concepts, tools, techniques, and materials needed to assess, design, and construct biofuels technology systems. Coursework will include multimedia presentations, lectures, discussions, films, field trips, homework, guest-speakers, and laboratory activities. Topics include: internal combustion engine technology, biodiesel chemistry and physical properties, combined heat-power systems, materials compatibility, by-products, closed-loop designs, energy balance, life cycle assessment, ASTM specifications, fuel analysis, feedstocks, biofuels and agriculture, biofuels in developing countries, ethanol, cellulosic ethanol, biogas and landfill gas, and eco-industrial models. Prerequisites: TEC 2601 and TEC 3638, or permission of the instructor. [Dual-listed with TEC 5700.] Dual-listed courses require senior standing.

TEC 4711. Computer Modeling of Renewable Energy Systems (3).F;S.

This course will introduce students to a variety of software packages for modeling the performance of renewable energy systems, and will help them develop proficiency in their use. Software packages may include Excel, FChart, PVFChart, BLCC, HOMER, WindCAD, RETScreen, and ARCReader. Students will study how to predict the performance of a variety of solar heating technologies, photovoltaics, wind turbines, and solar house designs. The economics and environmental benefits of renewable energy systems will also be explored. File formats and memory allocation schemes, as they relate to understanding data storage, will be discussed. Effective problem solving skills will be emphasized throughout the course. Prerequisites: TEC 2601 and TEC 3638 or permission of the instructor. (COMPUTER) [Dual-listed with TEC 5711.] Dual-listed courses require senior standing.

TEC 4718. Construction Management (3).On Demand.

This course introduces students to the mechanics of managing construction projects and personnel. Organizational structures, required licenses, codes, permits, safety requirements, personnel management, customer relations, scheduling, accounting, insurance, and financing are addressed. Special attention is given to the use of computer software, such as spreadsheets and scheduling programs, for construction management activities. Prerequisites: MAT 1025 or higher, TEC 2708, TEC 2718, TEC 3038, TEC 3718, and basic knowledge of computer word processing, Internet procedures, and spreadsheets. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with TEC 5718.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4728. Commercial Building Design (3).F;S.

This is an advanced level course exploring the broad field of architectural building design. It investigates the details of buildings, from structural elements to decorative components. Students have the opportunity to learn a variety of design development techniques, including manual drafting, sketching and rendering, computer-aided drafting and design (CADD), and model building. Required course projects include a full set of construction drawings for a commercial building using CADD software, as well as a rendering and model of the building. Prerequisite: TEC 3728. (COMPUTER) [Dual-listed with TEC 5728.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4738. Senior Architectural Design Studio I (4).F.

This course builds on previous courses in construction technology and architectural design to demonstrate to the student how to integrate the myriad aspects of architecture - from art to environment to materials to spaces to construction - into successful building designs. The course stresses application of design fundamentals to building design, but emphasizes the key elements of buildability, efficiency, durability and indoor air quality. Lecture two hours, laboratory four hours. Prerequisites: TEC 3748 and TEC 4728.

TEC 4748. Senior Architectural Design Studio II (4).S.

This course serves as the capstone course for the major in Building Sciences with a concentration in Architectural Technology and Design. The course proceeds through the entire architectural design process during the semester, culminating in the design of a structurally sound, efficient, durable, high performance building that meets all relevant building codes. Lecture two hours, laboratory four hours. Prerequisites: TEC 3038, TEC 3718, TEC 3738, and TEC 4738. Corequisite: TEC 4718.

TEC 4758. Planning and Scheduling (3).F;S.

This course introduces students to the complex process of planning for construction projects. The course covers project planning and scheduling, determining and leveling project resources, estimating, budgeting, and cost control for construction projects. Special attention will be given to the use of specialized scheduling software for construction management activities. Prerequisites: MAT 1025 or higher, TEC 2708, TEC 2718, TEC 3038, and TEC 3718. [Dual-listed with TEC 5758.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4768. Construction Administration (3).F;S.

This course is an in-depth study of the administrative aspects of construction projects. Topics covered include organizational structures, required licenses, taxes, codes, permits, safety requirements, personnel management, customer relations, value engineering, insurance, accounting, and financing. Prerequisites: MAT 1025 or higher, TEC 2708, TEC 2718, TEC 3038, and TEC 3718. Prerequisite or corequisite: TEC 4758.

TEC 4900. Internship (3–12).F;S.

GEN ED: Capstone Experience

Graded on an S/U basis. (WRITING)

TEC 4910. Practicum in the Career and Technology Education Classroom (1).F;S.

Prospective technology education teachers are introduced to technology education classrooms and school communities through field experiences in secondary schools. Observation, participation, and teaching experiences ranging from individual to large group settings are included. Reflection, analysis, and discussions of practicum experiences are integrated into regularly scheduled seminars. Students will complete inquiry projects and participate in interdisciplinary teaming while developing rapport with technology education students and examining the context of effective technology education learning environments. This course provides experiential learning through both field experiences and weekly lectures. Prerequisite or corequisite: TEC 4660. Graded on an S/U basis.

GRAPHIC ARTS AND IMAGING TECHNOLOGY (GRA)

GRA 1012. Introduction to Graphic Communications (3).F;S.

This course is a study of contemporary production practices of the graphic communications industry, examining the basics of digital imaging, page layout assembly, and workflow technologies such as computer-to-plate, print media, and finishing. The application of project based assignments and the study of materials, equipment, health and safety, concepts of text/image input, conversion, and output that are practiced in the graphic communications industry are included as topics. Lecture two hours, laboratory two hours.

GRA 1022. Digital Prepress (3).F;S.

This course is an introduction to digital production workflow applications relevant to the graphic communications industry. Specific topics may include production hardware, page layout and imposition, illustration and image processing software, input and output devices, digital file storage and asset management, and proofing technologies. Emphasis will be placed on understanding the complete production process from computer to press. Lecture two hours, laboratory two hours. Prerequisite: ART 1011 or ART 1013 or permission of the instructor. (COMPUTER)

GRA 2012. Introduction to Printing and Finishing (3).F;S.

This course is a continuation of GRA 1012, Introduction to Graphic Communications. Emphasis will be placed on theory and problem solving as well as broadening skills in the areas of print media, finishing technologies and production management. Further experiential learning of materials, equipment, production workflow techniques, concepts of text/image input and output devices, finishing processes, and quality control as practiced in the graphic communications industry are included in the design of this study. Lecture two hours, laboratory two hours. Prerequisites: GRA 1012 and GRA 1022.

GRA 2222. Introduction to Flexographic Printing and Packaging (3).F;S.

This course is an introduction to the principles and practices of the flexographic printing and packaging industries. Students will become familiar with the basic flexographic workflow process involving the application of specific conventions acceptable to the flexographic industry. Emphasis is placed on the packaging workflow process; including prepress (design concepts and layouts, development of design files, preflighting, making and mounting plates), press setup, print production, and package conversion. Lecture two hours, laboratory two hours. Prerequisites: GRA 1012, GRA 1022, and GRA 2012.

GRA 3102. Electronic Imaging (3).F;S.

An introduction to the concepts, processes, and hardware which are fundamental in creating, editing, and displaying digital electronic images. To include: image editing, blending modes, compositing, color models and modes, color separation, color profile management, masking, tonal analysis, layer management, file preparation and conversion. Lecture two hours, laboratory two hours. Prerequisite: GRA 1022 or permission of the instructor. (COMPUTER)

GRA 3112. Substrates, Inks, and Toner (3).F.

This course is designed to introduce students to substrates and inks used in printing and packaging production. Topics will include introduction to features and characteristics, manufacturing processes, printing and packaging production performance and quality control and color management solutions for substrates and inks used for producing printing and packaging products. Lecture two hours, laboratory two hours. Prerequisite: GRA 2012.

GRA 3312. 3D Imaging and Animation (3).F.

This course provides an introduction to 3D digital imaging for specific applications. Industry standard computer software will be used to explore fundamentals of modeling and texturing. Lecture two hours, laboratory two hours.

GRA 3512. Web Development for Graphic Communications (3).F.

This course provides students with the opportunity to develop basic web sites, manipulate images for web delivery. Additionally, students will create intermediate and advanced web sites that utilize complex interactivity. Lecture two hours, laboratory two hours.

GRA 3622. Graphic Communications Seminar (1).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course involves the development of the mechanics of being a professional in the graphic arts industry. Specific topics include resumes, cover letters, interviewing, presentation techniques and report writing. Prerequisites: ENG 2001 or its equivalent and junior standing. (WRITING)

GRA 3772. Job Estimating and Planning (3).S.

The study of systems and techniques used for identification of printing production standards, cost estimating, production scheduling, production planning, material flow, teamwork, problem-solving techniques, and management's role in creating quality environments. Lecture three hours. Prerequisite: GRA 3112.

GRA 3882. Intermediate Flexographic Printing and Packaging (3).F;S.

This course presents intermediate-level concepts of flexographic technologies and technical processes applicable to the flexographic industry. Students enrolled in this course will learn design techniques specific to flexography, printing calculations, job assembly, proofing, print evaluation, and multiple spot color techniques. This will be achieved through project-based assignments that allow students to select anilox roll, substrates, inks, dies, and other printing materials. Lecture two hours, laboratory two hours.

GRA 4112. Technical Assistant (1).F;S.

A supervised, meaningful, planned and evaluated laboratory assistant experience. Students enrolled in this course will act as instructional aides within various graphic arts and imaging technology courses. Prerequisite: junior or senior standing.

GRA 4512. Advanced Electronic Imaging/Cross Media (3).F;S.

This course addresses advanced concepts and practices pertaining to digital electronic imaging. To include: advanced techniques such as color management, image adjustment, scanning, color correction, masking, edge selection, and special effects. Lecture two hours, laboratory two hours. Prerequisite: GRA 3102. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.) [Dual-listed with GRA 5512.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GRA 4522. Advanced 3D Imaging and Animation (3).S.

This course focuses on using advanced texturing techniques, complex shading networks, inverse kinematics and forward kinematics to develop realistic 3D images and animation. Lecture two hours, laboratory two hours. Prerequisite: GRA 3312. [Dual-listed with GRA 5522.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GRA 4558. Digital Printing Systems (3).F;S.

This course allows students the opportunity to explore digital printing applications such as short-run color and variable data printing. Students will study digital workflows, file preparation, data management, preflighting, digital front-end systems, press operation and routine maintenance. Lecture two hours, laboratory two hours. Prerequisites: GRA 1022 and GRA 3102. [Dual-listed with GRA 5558.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GRA 4566. Advanced Flexographic Printing and Packaging (3).S.

This course addresses advanced concepts and practices pertaining to the flexographic printing process. To include: advanced techniques such as multi-color spot and process color printing, quality control, corrugated board, image distortion, die calculations, and coatings. Lecture two hours, laboratory two hours. Prerequisites: GRA 3112 and GRA 3882. [Dual-listed with GRA 5566.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GRA 4591. Advanced Printing and Finishing (3).F.

This course is designed to build on the basics covered in: Introduction to Graphic Communications, Introduction to Printing and Finishing, Introduction to Flexographic Printing and Packaging, and Electronic Imaging. Students will gain experience in advanced techniques in electronic prepress, halftones, duotones, process color, process stripping, process press work, and process control. Lecture two hours, laboratory two hours. Prerequisites: GRA 1022, GRA 2012, GRA 3102, GRA 3112, and GRA 3772 or permission of the instructor. [Dual-listed with GRA 5591.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

GRA 4622. Current Trends in Graphic Communications Seminar (1).F;S.

This course is designed to emphasize current trends, technical movements and problems as they relate to the future of the printing industry. Classes will focus on group discussions related to these and other current issues. Students will be required to refer to academic experiences, internship experiences and library skills to participate in discussions. Prerequisite: senior standing. Laboratory two hours. (WRITING; SPEAKING) [Dual-listed with GRA 5622.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

INDUSTRIAL DESIGN (IND)

IND 1001. Technical Drafting (4).On Demand.

Fundamentals of technical drafting including: lettering, sketching, instrument and CAD techniques, views and orthographic projection, pictorial drawing, dimensions, sections, and working drawings. Selected assignments from this course will be appropriate for inclusion in student portfolios. Lecture two hours, laboratory four hours. (COMPUTER)

IND 1010. CADD I: Imaging (3).F;S.

This course is a survey of Computer Aided Design and Drafting (CADD) software as it relates to Industrial Design. A focus will be placed on skill development of digital illustration and presentation techniques. Selected assignments from this course will be appropriate for inclusion in student portfolios. (COMPUTER)

IND 2012. Product Design (3).F;S.

GEN ED: Aesthetic Perspective (Theme: "Shaping the Human Environment")

This is an introduction to product design and problem-solving techniques. Emphasis is given to history of industrial design, methods for communicating design ideas, systematic design, product design specifications, corporate strategies in planning product innovations, fundamentals of materials and manufacturing processes used in the mass production of consumer products. Students will write multiple reports and give oral presentations throughout the semester. Selected assignments from this course will be appropriate for inclusion in student portfolios. Lecture three hours. (WRITING; SPEAKING)

IND 2120. Materials and Processes I (3).F.

This course is an introduction to different materials and how to process them. Discussion of characteristics and the nature of materials might include: woods, metals, plastics, rubbers, concrete, fibers and ceramics. In addition, students will be exposed to a variety of processing techniques for these materials. Studio six hours.

IND 2201. Design Drawing I (3).F;S.

This course will introduce basic drawing principles and techniques as important tools for visual thinking and communication of design ideas. The primary emphasis will be on freehand sketching for quick ideation during problem-solving, though experimentation with different media will be encouraged. Studio six hours.

IND 2211. Design Drawing II (3).On Demand.

This course will introduce basic marker drawing principles and techniques as important tools for visual thinking and communication of design ideas. The primary emphasis will be on ballpoint and marker (Prismacolor or Pantone, etc.) rendering. Experimentation with different media will be encouraged (Prismacolor pencils, pastels, etc.). Lecture two hours, laboratory two hours. Prerequisite: IND 2201.

IND 2301. Model Making (3).F;S.

This course introduces students to wood shop equipment, machine shop equipment, mockup techniques, mold-making, thermoforming, painting, and finishing techniques. Quality, craftsmanship and shop safety are emphasized. The skills developed will provide students with the opportunity to create professional phototypes and visual tools to aid in their presentation/design development. Students are exposed to materials such as chipboard, wood, plastic and foam.

IND 2311. Human Factors in Design (3).F.

The study of human capabilities and the design of parameters to fit an environment, task or product. Topics include the range and application of human measurements and senses. The course also addresses ergonomic design and design for challenged individuals. Lecture three hours.

IND 2321. Physical Principles for Designers (3).S.

This course studies a broad array of physical principles useful for design. Topics include: heat transfer, thermodynamics, power mechanics, electronics and electricity, material science, strength of materials, statics, dynamics, and acoustics. The topics are covered as an overview with application examples. Students are expected to solve various design problems and give portfolio quality presentations to the class. Lecture two hours, laboratory hours.

IND 2401. History of Furniture Design (3).S.

A seminar studying the history of furniture design from 3000 B.C. - present. As a survey of the development of furniture from antiquity to the present day, the course will examine furniture design within a broad context of social, political, economic, and technical perspectives exclusive to each historical period. Lecture three hours.

IND 2411. Introduction to Design Studio (3).F;S.

Product design studio is an integral aspect of the educational process of a designer. This course will allow students the opportunity to experience the process and methodology associated with studio projects. Successful students will complete a series of design projects where they develop concepts from ideas to fully realized models. Prerequisites: INT 1001, INT 1002, and IND 2201. Studio six hours.

IND 2421. Preliminary Design Studio (3).F;S.

Product design studio is an integral aspect of the educational process of a designer. This studio based course offers students the opportunity to experience the process with furniture based projects. Successful students complete a series of design projects focused on furniture related topics. Design concepts are generated, developed, and clarified in a process that moves from schematic studies to detailed proposals to built works. Prerequisites: INT 1001, INT 1002, and IND 2201. Studio six hours.

IND 2901. CADD II: Free Modeling (3).F;S.

This course is an in-depth exploration of Computer Aided Design and Drafting (CADD) software as used in free modeling applications. Units will include: layout and construction methods, perspective, finished illustration techniques and an introduction to animation. Lecture two hours, laboratory two hours. Prerequisite: IND 1010 or permission of the instructor. (COMPUTER)

IND 3100. Furniture Styling and Detailing (3).F.

This course takes an in-depth approach to research, sketching, and drawing to give students insight into furniture types, elements, and construction. This insight may be utilized to help focus further research and design, culminating in construction documents and renderings. Prerequisites: GRA 3102, IND 1001, IND 2201, and IND 2401. Studio six hours.

IND 3120. Materials and Processes II (3).S.

This course is an advanced investigation into materials and techniques. Students are exposed to a variety of hands-on methods in a breadth of materials. Materials covered may include plastic, wood, metal and resins. Processes covered may include: rapid prototyping, computer numerical control, thermoforming, mold-making, casting, extrusion, injection and blow molding. Topics discussed may include: design for manufacturing, snap-fit design, design for disassembly, design for reuse, and the cradle to grave vs. cradle to cradle design theory. Prerequisites: IND 2120 and IND 2901. Studio six hours.

IND 3200. Furniture Construction and Upholstery (3).S.

This course is a study of the construction practices commonly used by the furniture industry. Additionally, students will take an in-depth look at the techniques utilized in the construction and design of upholstered products. The knowledge obtained will be utilized to help focus further research and design, culminating in construction documents and a completely fabricated piece of furniture. Additional methods and processes addressed may include mock-ups, scale models, veneering, bent lamination, and finishing. Prerequisite: IND 3100. Studio six hours.

IND 3701. Product Design Studio I (4).F.

GEN ED: Junior Writing in the Discipline (WID)

This course will begin the more intensive development of a design process methodology for the design student. Communication of this process will be a primary focus through the documentation and presentation of all work throughout the semester. Students will have a series of design projects providing opportunities to explore various materials and processes, as well as addressing contemporary design issues and design theory. Potential projects may include furniture design, exhibit design, improving the ergonomics of existing products, and package design. Prerequisites: IND 1010, IND 2120, ENG 2001 or its equivalent, IND 2411 or IND 2421, and declared major in Industrial Design. Studio eight hours. (WRITING)

IND 3711. Product Design Studio II (4).S.

This course will continue the more intensive development of a design process methodology for the design student. Communication of this process will be a primary focus through the documentation and presentation of all work throughout the semester. Students will have a series of design projects providing opportunities to explore various materials and processes; as well as addressing contemporary design issues and design theory. Potential projects may include intermediate furniture design, exhibit design, improving the ergonomics of existing products and package design. Prerequisite: IND 3701. Studio eight hours.

IND 3901. CADD III: Parametric Modeling (3).S.

This course is an in-depth exploration of Parametric Computer Aided Design and Drafting (CADD) and its application in industrial design. Units will include: advanced 3D construction techniques, constraints, assembly modeling, finite analysis and document development. Lecture two hours, laboratory two hours. Prerequisites: IND 1010 and IND 2901 or permission of the instructor. (COMPUTER)

IND 3911. Rapid Prototyping (3).On Demand.

This class involves the study and practice of using computer aided design and drawing to interface with computer aided machining. The course presents the concepts of part positioning, machining reference datums, tooling, tool path, accuracy, and precision. Students are expected to design and produce finished parts for their design portfolios. Lecture two hours, laboratory two hours. Prerequisite: IND 2901.

IND 4100. Furniture Design Studio I (4).F.

This course is an advanced investigation into designing with new materials and techniques for furniture. Discussions will focus on contemporary issues affecting the furniture design industry. Topics covered may include green design, trend materials, ready-to-assemble or knock-down, and packaging. Prerequisites: GRA 3102, IND 2120, IND 2201, IND 3120, IND 3200, and a declared major in Industrial Design. Studio eight hours.

IND 4110. Furniture Design Studio II (4).S.

This course is an advanced study of furniture design. Through the development of a systematic design methodology, students will undertake an in-depth approach to problem-solving for furniture design. Understanding and utilizing research as a primary tool, students will address specific design criteria and innovate for niche markets. Through the production of the actual working prototype, a further sense of how design functions as a tool will be achieved. In addition, this hands-on application will foster a greater knowledge of materials, the applied integration of CAD, and an appreciation for craftsmanship. Prerequisite: IND 4100. Studio eight hours.

IND 4557. Design for Manufacture (3).F.

The design, development, and mass production of a manufactured product. To include market survey, design selection, prototype construction, development of jigs and fixtures, and implementation of process planning and control systems. Lecture two hours, laboratory two hours. Prerequisite: IND 3701 or permission of the instructor. (SPEAKING) [Dual-listed with IND 5557.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

IND 4701. Product Design Studio III (5).F.

The first semester of the senior design studio places higher expectations on the student's design process, as developed in IND 3711 (Product Design Studio II). Projects are research oriented, and documentation of the development of design ideas is paramount for successful completion of the course. Design research, as it can be applied to their upcoming senior design projects, is the focus toward the end of the semester. The subjects of design culture, the materiality of objects, product semantics and user-centered design are among the research topics and points of discussion. Potential projects may include consumer electronics, toys, transportation, and housewares. Industry sponsored projects are often undertaken as well. Lecture two hours, laboratory six hours. Prerequisite: IND 3711.

IND 4711. Product Design Studio IV (5).S.

The final semester of the product design studio sequence examines professional practice in the field of industrial design, professional ethics, available jobs, and opportunities for continued education. A fully executed design project is the primary focus of the semester, with the student using the research skills developed during the previous product design studios. Potential projects may include furniture design, exhibit design, consumer products, medical devices, and sporting goods. Passing a portfolio review is a requirement of this course. Lecture two hours, laboratory six hours. Prerequisite: IND 4701.

IND 4800. Industrial Design Senior Field Study (0).On Demand.

Travel, tours and study of areas of interest within the industrial design profession. Metropolitan areas, manufacturers, design firms, showrooms and museums are typical destinations. Attendance and overnight stays required. Graded on an S/U basis.

IND 4811. Professional Practice in Industrial Design (3).F;S.

In this course, students prepare to enter their career field. Course topics may include the development of professional contacts, interviewing skills, portfolio development, and the preparation of résumés, press releases, and design contracts. Students develop a comprehensive package to prepare for employment based on improved skill sets and capabilities. In-class learning is augmented by site visits to manufacturing facilities and design offices in the area.

INTERIOR DESIGN (INT)

INT 1001. Visual Literacy I (3).F.

Introduces fundamentals of 2D and 3D graphic communication through a variety of design projects. Investigates principles and elements of design through problem-solving methods. Introduces composition, lettering, layout, line quality, graphic representation and color theory with applications to interior design projects. Lecture one hour, studio four hours.

INT 1002. Visual Literacy II (3).S.

Explores principles of three-dimensional design as they relate to client-based markets, addressing issues of form, space and the design process. Pertinent vocabulary and concepts involved in the creation and critique of three-dimensional, client-based, functional objects, products and spaces will be covered. The course introduces problem solving techniques through ideation, form studies and models. Prerequisite: INT 1001. Lecture one hour, studio four hours.

INT 1100. Interior Design Studio I (3).S.

Foundation studio course, explores the fundamentals of interior design including the design process, principles and elements. Investigates problem-solving techniques through a variety of small-scale two and three-dimensional projects. Introduces critical thinking, analysis and communicating volumetrically. Includes creative problem-solving, process drawing, quick sketching and rendering, and modelmaking. Provides exposure to green design and team design. Prerequisites: INT 1001 and INT 1300. Corerequisite: INT 1002 or permission of the instructor. Studio six hours.

INT 1300. Design and the Built Environment (3).F.

Provides a survey of the interdisciplinary design professions and their impact on culture and human behavior. Includes case studies of the built environment. Lecture three hours.

INT 2001. Visual Literacy III (3).F.

Explores various graphic communication methods by means of advanced drawing and presentation techniques. Investigates manual and digital three-dimensional pictorial views, design sketching, presentation drawings, perspective, delineation and rendering. Provides exposure to a variety of graphic communication media, color theory, and presentation methods. Prerequisites: INT 1002 and completion of the Freshman Portfolio Review, or permission of the instructor. Lecture one hour, studio four hours. (COMPUTER)

INT 2100. Interior Design Studio II (3).F.

Introductory studio, focuses on application of design principles and elements in shelter interiors. Provides exposure to universal design principles, special populations, green design, social responsibility, human factors, kitchen and bath standards and specifications. Emphasizes critical thinking, space planning, circulation, and spatial analysis. Typical projects may include small and medium-scale residential and multi-family interiors. Prerequisite: completion of the Freshman Portfolio Review. Studio six hours.

INT 2110. Interior Design Studio III (3).S.

Intermediate-level studio, focuses on systems design. Explores problem identification, research, functional analysis, programming methods and space planning theory. Investigates codes, and the integration of building systems. Includes theories of circulation, systems, application of ergonomics, ADA, building codes, ceiling systems, and specifications. Typical projects may include medium-scale work, retail and exhibition spaces. Extends analytical and strategic thinking. Prerequisites: INT 2100 and must be a declared INT major. Studio six hours.

INT 2200. Interior Design Systems I (3).S.

Provides basic understanding of interior building products with focus on materials and finishes. Also includes systems furniture, architectural wall systems, and ceiling systems. Investigation and analysis of properties, selection criteria, costs, maintenance, specifications, codes, performance testing, sustainability, and life-cycle costing. Prerequisite: completion of the Freshman Portfolio Review or permission of the instructor. Lecture three hours.

INT 2300. History of Interior Design and Architecture I (3).F.

Explores history of interiors, architecture, and materials from prehistoric (ancient) times to the Industrial Revolution. Includes residential and commercial spaces. Provides exposure to multi-cultural issues in design. Prerequisite: completion of the Freshman Portfolio Review or permission of the instructor. Lecture three hours.

INT 2310. History of Interior Design and Architecture II (3).S.

Explores history of interiors, architecture, graphic and industrial design, and materials from the Industrial Revolution to the present. Includes residential and commercial spaces. Provides exposure to multi-cultural issues in design. Prerequisite: completion of the Freshman Portfolio Review or permission of the instructor. Lecture three hours. (WRITING)

INT 2330. Kitchen and Bath Workshop (3). On Demand.

Use of the National Kitchen and Bath Association Guidelines in the design and evaluation of kitchens and baths. Incorporates universal and green design concepts into space planning and specification of products for kitchens and bath design. Explores ergonomic and anthropometric research for decision-making. Emphasis primarily on residential applications. Prerequisite: INT 2100 or permission of the instructor. Lecture two hours, studio two hours.

INT 2400. Interior Design Sophomore Field Study (0). On Demand.

Travel, tours and study of areas of interest within the interior design profession. Manufacturers, design firms, showrooms and museums are typical destinations. Attendance and overnight stays required. Graded on an S/U basis. Prerequisite: completion of the Freshman Portfolio Review or permission of the instructor.

INT 2500. Independent Study (1–4). F;S.

Approved contract is required.

INT 3001. Architecture and Design Internship Workshop (1). F.

Emphasizes study and preparation for the design workplace experience including internship requirements and objectives. Provides discussion of procedural and ethical concerns and preparation for the interview process. Includes research, goal-setting, design and creation of application materials and portfolio. Prerequisite: completion of the Freshman Portfolio Review or permission of the instructor. Lecture one hour.

INT 3005. Interior Design Studio IV (3). F.

Intermediate-level studio, focusing on global design in commercial environments. Course provides application of human environmental studies, multi-cultural studies, advanced graphics, space planning, lighting and green design. Typical projects may include hospitality facilities (hotels, resorts, restaurants), healthcare facilities, and retirement facilities. Prerequisite: INT 2110. Studio six hours. (SPEAKING)

INT 3105. Interior Design Studio V (3). S.

An advanced studio which focuses on problem-solving skills related to collaborative design. The course further develops concept writing, process drawing, space planning, design development, lighting, detailing, branding and consumer studies, multi-cultural issues, and green design understanding. Typical projects include medium-scale retail, showroom, exhibit design, and hospitality spaces. Prerequisite: INT 3005. Studio six hours.

INT 3200. Interior Design Systems II (3). F.

Explores ambient interior systems such as lighting, acoustics and indoor environmental quality (IEQ). Includes basic principles of illumination, exploration of light sources, identification, terminology, analysis, calculations, graphic representation and documentation to effectively communicate lighting design, acoustics and IEQ. Prerequisite: INT 2200 or permission of the instructor. Lecture three hours.

INT 3320. Environment and Human Behavior (3). S.

GEN ED: Junior Writing in the Discipline (WID)

Explores interrelationships between human behavior and the built-environment. Emphasizes synthesis of empirical research, analysis, mapping, design guidelines, programming, written documentation, and post-occupancy-evaluations. Study may include proxemics, human factors, social behavior, stressors and other prominent areas of research. Analysis may include residential or commercial spaces. Current topics may include placemaking, global issues, culture, defensible space. Prerequisites: completion of the Freshman Portfolio Review and ENG 2001 or its equivalent. Lecture three hours. (WRITING)

INT 3500. Independent Study (1–4). F;S.

Approved contract is required.

INT 3520. Instructional Assistance (1). F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract is required.

INT 3530–3549. Selected Topics (1--4). On Demand.

INT 3551. Technical Assistant (1). F;S.

A supervised, meaningful, planned and evaluated laboratory assistant experience. Students enrolled in this course will act as instructional aides within various interior design courses. Graded on an S/U basis. Prerequisite: completion of the Freshman Portfolio Review or permission of the instructor.

INT 4100. Interior Design Studio VI (4).F.

Advanced studio, focuses on socially conscious design (design intervention). Includes programming and client issues, application of green design and social design. Typical projects may include service-based learning for non-profits (educational and community-based organizations). Prerequisite: INT 3105. Studio eight hours.

INT 4109. Studio VII Pre-Design (1).F.

This course focuses on pre-design phases for the senior project. Content may include project proposals, comprehensive research, programming, codes analysis, project management, site analysis, building identification and other pre-design issues. The course stresses the importance of pre-design work in the overall design process, with emphasis on current periodicals, references and literature. Prerequisite: INT 3105. Lecture one hour.

INT 4110. Interior Design Studio VII (4).S.

Final in a series of studios focusing on in-depth individual interior design projects. Emphasizes research, programming, comprehensive design, documentation and detailing. Typical projects may expose students to historic preservation, adaptive reuse issues, green design and incorporates advanced technical, analytical and theoretical problem-solving methods. Prerequisite: INT 4100. Corequisite: INT 4320. Studio eight hours.

INT 4300. Current Issues in Interior Design (2).On Demand.

Explores current issues and trends in interior design. Emphasizes synthesis of research and critical thinking for creative problem-solving. Topics vary from year to year. May be repeated for credit when content does not duplicate. Prerequisite: INT 3105. Lecture two hours.

INT 4320. Professional Practices in Design (2).S.

Explores issues and ethics of interior design professional practice. Includes discussion of legal certification, professional organizations, and NCIDQ examination. Provides advanced study of professional standards, codes and specifications. Corequisite: INT 4110. Lecture two hours.

INT 4330. Construction Documents and Detailing (2).S.

Explores methodology of developing a comprehensive set of construction documents for commercial interior design projects using CAD as a production tool. Emphasizes drawing and document standards for plans, elevations, schedules, details and specifications in accordance with professional practice. Prerequisite: INT 2110. Studio four hours.

INT 4400. Interior Design Senior Field Study (1). On Demand.

Travel, tours and study of areas of interest within the interior design profession. Metropolitan areas, manufacturers, design firms, showrooms and museums are typical destinations. Attendance and overnight stays are required. Barring duplication of content, a student may repeat INT 4400 twice for a total credit of three semester hours with permission of the instructor. Graded on an S/U basis. Prerequisite: INT 2110 or permission of the instructor.

INT 4900. Internship (4).SS.

GEN ED: Capstone Experience

Prerequisites: all 3000-level interior design coursework. Graded on an S/U basis.

Department of Theatre and Dance (TD)

Marianne Adams, Chair

Lauren E. Atkins

Emily Daughtridge

Derek S. Davidson

Derek P. Gagnier

Regina Gulick-James

Michael L. Helms

Gordon A. Hensley

Rebecca J. Keeter

Teresa E. Lee

Susan W. Lutz

Martha A. Marking

Keith T. Martin

John T. Marty

Paulette J. Marty

Ray Miller

Sherone D. Price

Kin-Yan E. Szeto

Anna G. Ward

Joel W. Williams

Sue S. Williams

The Department of Theatre and Dance prepares students to pursue paths that may include professional careers in the performing arts, graduate school, teacher certification in theatre, or avocational interests in theatre and dance. Classroom learning is enhanced by the department's commitment to an active co-curricular performance/production program that features the creative work of faculty and students. New and published works are created in the Appalachian Dance Ensemble, the Appalachian Young People's Touring Theatre, the University Theatre, and interdisciplinary collaborations within the university and surrounding communities.

The department strives to maintain working relationships with professional performing groups and organizations providing students with opportunities for internships and creative collaborations. The department encourages development of student leadership and service by actively supporting the student organizations: Momentum, Playcrafters, Alpha Psi Omega, the Musical Theatre Club, the Appalachian Consortium of Theatre Teachers, and the ASU Chapter of the United States Institute of Theatre Technology.

The Bachelor of Arts degree in Dance Studies (581A/50.0301)

The program of study is available at: www.programsofstudy.appstate.edu/dance-studies-ba-581a-2012-2013

The Bachelor of Arts degree in Theatre Arts (591*/50.0501)

For the Bachelor of Arts in Theatre Arts, students must select one of the following concentrations:

General Theatre concentration (591B)

The program of study is available at: www.programsofstudy.appstate.edu/theatre-arts-ba-general-theatre-591b-2012-2013

Performance concentration (591C)

The program of study is available at: www.programsofstudy.appstate.edu/theatre-arts-ba-performance-591c-2012-2013

Theatre Design/Technology concentration (591D)

The program of study is available at: www.programsofstudy.appstate.edu/theatre-arts-ba-theatre-designtechnology-591d-2012-2013

Admission and Requirements for the BA degrees in the Department of Theatre and Dance

1. The Bachelor of Arts degree in Dance Studies is open to any student who has been admitted to Appalachian State University. An overall GPA of 2.5 is required in the major.
2. The Bachelor of Arts degree in Theatre Arts with a concentration in General Theatre is open to any student who has been admitted to Appalachian State University. An overall 2.0 GPA is required in the major.
3. The Bachelor of Arts degree in Theatre Arts with a concentration in Performance is open to students who have successfully interviewed with the performance faculty. A current performance resume, an 8x10 headshot, and a brief written statement expressing performance major goals are required for the interview. The student may be asked to perform a two-minute audition if the performance faculty is not familiar with the student's acting work. The student may receive no grade lower than a "B-" in any performance course in the major in order to continue in the program. The student must pass a juried audition and interview at the end of each year to determine the student's ability to successfully continue in the Performance concentration.
4. The Bachelor of Arts degree in Theatre Arts with a concentration in Theatre Design/Technology is open to students through an interview with the design/technology faculty. Once admitted to Appalachian or during the first year of residence, the student should fill out an application form and submit it along with a current production resume. The student will be asked to present a design and/or technical portfolio. In order to continue in the program, the student must maintain a minimum overall GPA of 2.7 in the (*) designated major courses as noted on the program of study for this concentration. The student must participate in a portfolio review and interview each year to evaluate the student's ability to continue successfully in the Theatre Design/Technology concentration.

The Bachelor of Science degree in Teaching Theatre Arts, K-12 (589A/13.1324)[T]

The program of study is available at: www.programsofstudy.appstate.edu/teaching-theatre-arts-k-12-bs-589a-2012-2013

A minor in Dance (515/50.0301) (17-18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/dance-minor-515-2012-2013

A minor in Theatre Arts (586/50.0501) (17-18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/theatre-arts-minor-586-2012-2013

Honors Program in Dance Studies

The Department of Theatre and Dance provides the opportunity for highly qualified students to graduate with "Honors in Dance Studies." To apply for the departmental honors program, applicants must have completed 45 semester hours, including 12 semester hours in dance studies with an overall GPA of 3.45. Admission into the dance studies honors program is by application to, and recommendation of, the departmental honors committee. Space in the honors program is limited, and not all students meeting the application criteria will be accepted.

In order to graduate with "Honors in Dance Studies," a student must maintain an overall GPA of 3.50 and a GPA of 3.50 or higher in dance studies courses. An honors student must make a grade of no less than "B" in any honors-designated course. The student must complete 9 semester hours of honors courses in the department by satisfactorily completing an honors contract between the student and the professor(s) teaching the course(s). Six semester hours may be taken from two of the following courses: DAN 3430, DAN 4460, DAN 4480, or DAN 4870, or students may opt to take other dance studies honors courses by arrangement with the honors professor before semester classes begin. Additionally, all dance studies honors students must complete DAN 4510, Senior Honors Thesis/Project (3 s.h.). The honors thesis/project must include a dance studies professor as the primary advisor and a professor from outside the major as a secondary advisor.

Note: The honors program in dance studies requires a minimum of three semesters to complete. Honors courses in dance studies are not offered during summer sessions.

Courses of Instruction in Theatre (THR) and Dance (DAN)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

THEATRE (THR)

THR 2005. Page and Stage (3).F.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "How We Tell Stories")

In this class, students will have the opportunity to learn techniques for analyzing and interpreting written dramatic texts and theatrical performances. They will analyze and interpret plays of different styles from various historical periods, with particular attention to the unique characteristics of drama as a medium for telling stories.

THR 2007. The Actor (3).F;S.

In this course, students will focus on the development of body, voice and imagination with the goal of effective communication. Coursework will include exercises and assignments designed to develop awareness of physical and imaginary stimuli, cultivate interpretive skills while discovering imagery within a text, and explore conscious awareness of self and environment with the purpose of developing creative flexibility.

THR 2009. The Stage Environment (3).F;S.

In this class, students will explore the fundamental principles and processes of designed environments for performance. Students will engage in design research, analysis, interpretation, and critique. Emphasis will be on developing creativity by participating in individual and collaborative projects.

THR 2010. Analyzing Style and Form: Theatre (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Analyzing Style and Form")

In this course, students will analyze styles and forms of theatre from various cultures and historical eras. They will also examine how their own personal, historical, and cultural perspectives affect their responses to artistic performance.

THR 2017. Theatre for Social Change (3).S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Social Change Through the Arts")

This course is a practical and seminar class focused on the history and theory behind "theatre for social change" and is grounded in participation, research, analysis, and performance. Students study and apply various theories and methodologies of theatre for social change (image, forum, playback, invisible theatre, etc.) to effect change related to social, economic, cultural, political, and interpersonal issues.

THR 2020. World Culture and Performance Studies (3).F.

GEN ED: Fine Arts Designation; Local to Global Perspective (Theme: "Performance of Culture")

This course applies insights from performance art, theatre, dance and other art forms. Its interdisciplinary approach will allow students to have the opportunities to study the unique role of "performance" in various aspects of our society as well as the world today. The class will explore the concept of performance, and special attention will be paid to issues of multiculturalism and the cultural, political, historical, social, economic and technological contexts of performance studies.

THR 2022. Cultivating Creative Expression Through Theatre (3).S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Cultivating Creative Expression")

The emphasis in this course is on understanding and creating theatre as a springboard for more deeply understanding and developing personal creativity. Students will be immersed in an integrated approach to developing theatre artistry through watching, reading and analyzing plays; engaging in the creative process of playmaking and playwriting; and participating in the collaborative process of theatre production. No prior theatre skills necessary. Lecture and studio lab.

THR 2101. Production Running Crew (0-1).F;S.

Production running crew is available to all students. Specific jobs and hours will be arranged with the instructor. May be repeated up to four times for credit. Prerequisite: permission of the instructor.

THR 2108. Advanced Production Assignment (0-1).F;S.

This advanced production assignment course is available to all students through audition for a major theatre production or assignment of a specific design, stage management, or advanced production responsibility. May be repeated up to four times for credit. Performance concentration students should repeat for 0 semester hours credit. Prerequisite: permission of the instructor.

THR 2214. Dance Production Basics (3).F.

An introduction to the techniques of stage production in costume, stage lighting, and stage sound. Coursework will include the understanding of basic design principles, appropriate paperwork, organization, use of equipment, construction/installation techniques, and safety. Students will participate in a variety of production activities.

THR 2220. Theatrical Costume (3).F;S.

An introduction to the theory and practice of the theatrical costume including construction techniques, organization and maintenance. Also included will be patterning, dyeing, and costume history. Students will participate in costume studio activities.

THR 2225. Makeup (2).F;S.

A practical guide to the theory and application of theatrical makeup. Various conceptual and technical problems will be studied and solved. Lecture and laboratory two hours. Prerequisite: THR 2009 or permission of the instructor.

THR 2230. Scenery and Properties (3).S.

Introduction to the techniques used to design and execute stage scenery and properties including equipment, facilities, basic design techniques and documentation. Students will participate in scenic studio activities.

THR 2240. Lighting and Sound (3).F.

An introduction to the techniques used to design and execute theatrical lighting and sound, including equipment, facilities, basic design techniques and documentation. Students will participate in production activities.

THR 2250. Stage Management (2).F;S.

The study of the procedures and techniques used to stage manage a theatrical production from auditions through the final performance. The unique aspects of stage managing in the university and professional environments will be considered. Prerequisite: permission of the instructor.

THR 2445. Arts Management and Promotion (3).F.

The theory and practice of business management, promotion and publicity, fund raising, ticket sales, and box office management as applied to the performing arts. Lecture and demonstration three hours.

THR 2500. Independent Study (1–4).F;S.

THR 2600. Voice for the Stage (2).F;S.

This course concentrates on establishing good vocal habits through practical application of various vocal techniques. Phonation, respiration, articulation, phrasing, textual analysis and dialects will be studied to establish the effective use of the voice for the stage.

THR 2605. Movement for the Stage (2).F;S.

This course emphasizes the development of the actor's physical instrument, the use of performance space, and ensemble movement. Applied movement techniques such as the Alexander Technique, mime, and mask will be studied. Lecture one hour, laboratory two hours.

THR 2610. Oral Interpretation (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "How We Tell Stories")

An introduction to the study of literature through the medium of performance. The student is expected to master techniques of literary selection and analysis and to perform from poetry, prose and dramatic literature. (WRITING; SPEAKING) (CORE: HUMANITIES)

THR 2617. Improvisation (1).S.

A basic course designed for theatre majors or minors. Students will engage in performance exercises emphasizing spontaneity and creativity. Course content will begin with theatre games and build to improvisational scene work.

THR 2620. Acting I: Beginning Scene Study (3).S.

This course is a study of script analysis applied to performance through monologue and scene study for the purpose of developing a character. Prerequisite: THR 2007. (SPEAKING)

THR 2635. Stage Combat (2).F. Odd-numbered years.

An introduction to the use of combat in theatrical productions. Course work will include safe approaches to weapon and hand-to-hand combat, appropriate weapon choices, text and fight analysis, rehearsal discipline, and basic fight choreography. Prerequisite: THR 2605.

THR 2680. Audition (2).S.

This course will explore the techniques necessary to prepare for various types of auditions and the business demands of being an actor. Various aspects of the audition process, such as cold reading, selecting and preparing a monologue, and awareness of one's "type" will be emphasized. Special attention will be placed on preparing professional quality headshots, resumes, and the ins and outs of casting, agents, and interviews. Prerequisite: THR 2007.

THR 3070. Teaching Theatre, 9-12 (3).F.

Methods for teaching theatre in the 9-12 classroom. This course includes strategies, organization and administration for classroom and production activities in theatre arts. Experiences include developing lesson plans and actual high school teaching experience. It is strongly advised that all requirements for licensure (except student teaching) be completed prior to taking this methods course. Prerequisite: THR 4356. (Same as CI 3070.)

THR 3225. Advanced Stage Makeup (2).S. Even-numbered years.

Advanced techniques in stage makeup for a variety of production situations. Techniques to be covered include scars, burns, stage blood, latex, and other three-dimensional techniques. Lecture and laboratory two hours. Prerequisite: THR 2225 or permission of the instructor.

THR 3500. Independent Study (1–4).F;S.

THR 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite or corequisite: THR 3070/CI 3070. May be repeated for a total credit of three semester hours. Approved contract required.

THR 3530–3549. Selected Topics (1–4). On Demand.

A program involving advanced study, a research or creative project, and writing. Adapted to serve students who have exceptional interests. The proposals for this work must be approved by the instructor and the chair of the department prior to registration.

THR 3600. Dialects for the Stage (2).S.

This course will explore the techniques for creating believable, effective dialects for stage work. Methods of research to develop stage dialects will be examined. The acting demands of dialect work in a play will be emphasized with the goal that the student can create a full characterization with an understandable, accurate dialect. Prerequisite: THR 2600 or consent of the instructor.

THR 3620. Acting II: Advanced Scene Study (3).F.

This course continues the development of acting craft using scene study as a forum to explore realistic acting techniques and scene analysis. Prerequisite: THR 2620.

THR 3623. Acting in Musical Theatre (3).On Demand.

This course will explore the skills and techniques necessary to perform in musical theatre productions. Acting through lyrics and choreography will be explored. Techniques for analyzing scenes in a musical will be emphasized. Prerequisite: THR 2620.

THR 3626. Acting in Shakespeare (3).On Demand.

The purpose of this course is to explore the variety of vocal, physical, and craft demands necessary to create a fully realized character in a Shakespearean play. The use of imaginative preparation work and scene analysis will be emphasized. Text analysis skills are covered for the purpose of bringing "life" to the text. Prerequisite: THR 2620.

THR 3629. Acting for the Camera (3).On Demand.

The purpose of this course is to provide the opportunity to develop a "natural" on-camera acting style which suits the character and personality of each student. Emphasis in this course will be on finding the place where students may bring life to a specific character with as much authenticity, and with as little effort, as possible. Prerequisite: THR 2620.

THR 3630. Theatre Directing Techniques I (3).F;S.

Basic directing techniques including script analysis, production planning, blocking and working with the actor. Practical applications of the principles of directing. Prerequisites: THR 2009 and THR 2620.

THR 3640. Solo and Group Performance (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "The Body: Expression, Presentation, and Representation")

An introduction to performance studies, using the principles of oral interpretation. The course begins with the training of the body, voice, and sense memory as well as an introduction to dramatic analysis. The second part of the course uses these performance instruments for solo rehearsal and presentation of student selected literary texts: description, narrative, drama and poetry. The course concludes with ensemble performances of literary texts. (SPEAKING) (CORE: HUMANITIES)

THR 3650. Alexander Technique for Stage (2).F. Even-numbered years.

A course that explores the awareness of self, ease and improved coordination in movement, and stage presence through the principles of the Alexander Technique.

THR 3656. Theatre Performance and Production for Young Audiences (3).S.

This course will explore techniques and theories of producing plays for young audiences using children, youth and adults. Course work will emphasize practical demands of productions in a variety of organizational settings. Students will produce and tour a production for young audiences. This course is designed for students majoring in theatre, education and recreation. May be repeated for a total credit of six semester hours. Prerequisite: THR 2007 or permission of the instructor.

THR 3670. Playwriting (3).On Demand.

A study of the art and craft of writing for performance. Readings will include plays, performance theory, and performance reviews. The course will be run as a workshop in which every student must be an active participant in evaluating her or his own work and that of others. Assignments will include written work, oral presentations, workshop evaluations, and performances. May be repeated for credit when content does not duplicate. This course serves as a prerequisite for ENG 3662, ENG 3663, and ENG 4550. (Same as ENG 3670.)

THR 3679. Screenwriting (3).On Demand.

The purpose of this course is to provide the opportunity to establish a solid foundation in screenplay writing. Strong emphasis will be placed on structure, style and naturalized dialogue, as well as the fundamental importance of thinking and writing visually and simply. Focus will be on the motion picture medium, though other forms such as sitcoms, industrial A/V and soaps will be covered briefly. (Same as ENG 3679.)

THR 3730. Early Theatre History and Literature (3).F.

GEN ED: Historical and Social Perspective (Theme: "Religion, Myth, and Society")

This course explores the history, literature, and criticism of the theatre from prehistory up to the Early Modern period. The course will focus predominantly on European theatre, but will also include studies of some Asian forms. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

THR 3735. Modern Theatre History and Literature (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course explores the history, literature, and criticism of the theatre in the modern period through the present. The course will focus predominantly on American and European theatre, but will also include studies of some African, South American, and Asian theatre. Prerequisites: THR 2005, THR 3730, and ENG 2001 or its equivalent. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES)

THR 3856. Teaching Theatre, K-5 (3).F;S.

Introductory methods for using creative drama in the K-5 classroom and other settings. This course aids the potential K-5 teacher in using drama as a teaching tool, and it includes practical experience in the classroom. Prerequisite: CI 2300.

THR 3900. Internship (3-12).F;S.

Graded on an S/U basis.

THR 4220. Stage Costume Design (3).F.Even-numbered years.

The elements of design in relation to costume design through a series of historical and problem oriented projects. Emphasis will be placed on imagination, problem solving and growth in both the graphic interpretation and presentation of work. Prerequisites: THR 2009 and THR 2220.

THR 4230. Scenic Design (3).S.Odd-numbered years.

A study of the theory and processes used for the design of theatrical settings for a variety of productions. Prerequisites: THR 2009 and THR 2230.

THR 4235. Special Topics in Design and Production (3).F.Odd-numbered years.

The study of advanced design and production topics in a variety of production forms and styles. May be repeated two times for credit. Prerequisite: permission of the instructor.

THR 4240. Stage Lighting Design (3).S.Even-numbered years.

A study of advanced techniques of theatrical lighting design. Techniques for lighting design in drama, dance, and the other media will be investigated. Topics will include scenic projection, CAD for the lighting designer, adaptation of stage lighting for television and recent advances in lighting fixtures and control systems. Prerequisites: THR 2009 and THR 2240.

THR 4320. Acting III: Styles (3).S.

An extensive study of the scene analysis and playing skills necessary to bring to life various performance styles from Ancient Greek to the modern day. Emphasis is on scene work and the incorporation of voice, movement and acting craft to create fully realized, meaningful performances. Prerequisite: THR 3620.

THR 4330. Theatre Directing Techniques II (3).S.

Advanced directing techniques including interpretation, composition and picturization. Practical application of directing principles in scene work involving various dramatic genres and styles. Prerequisite: THR 3630.

THR 4356. Teaching Theatre, 6-8 (3).S.

Advanced methods for using creative drama in the 6-8 classroom and other settings. Research and exploration of current approaches in the creative drama field. Emphasis is placed on the transition from process to product. This course includes practical experience in the classroom. Prerequisite: THR 3856.

THR 4840. Capstone (3).F.

GEN ED: Capstone Experience

The capstone offers theatre students an opportunity to synthesize prior academic coursework, research, and practical problem solving in all major areas of theatre study. This capstone represents the culmination of the student's academic education and serves as a bridge to professional and educational theatre, graduate study and other job opportunities.

DANCE (DAN)

DAN 1400. Modern Dance I (2).F;S.

GEN ED: Wellness Literacy

An introduction to modern dance as an art form with the beginning practice of movement technique. Emphasis will be on the discovery of skills to develop the articulation and expressiveness of the body. The course will be an introduction to the medium of modern dance through the concepts of time, space, force and direction while integrating alignment and placement. Historical perspectives as well as aesthetic values will be covered. May be repeated one time for credit. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 1410. Beginning Ballet I (2).F;S.

GEN ED: Wellness Literacy

A beginning study of the art of classical ballet with emphasis on basic vocabulary, alignment/placement, classical historical traditions and basic combinations of movement. May be repeated one time for credit. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 1420. Jazz I (2).F.

GEN ED: Wellness Literacy

A study of beginning jazz dance technique with an emphasis on rhythmic awareness, style and cultural traditions. May be repeated one time for credit. Prerequisite: DAN 1400 or DAN 1410. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 2010. Analyzing Style and Form: Dance (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Analyzing Style and Form")

This course will explore the meaning, history, and aesthetics of dance. It will include cross-cultural comparisons and the influence of other art forms throughout the history of dance. The course will be primarily lecture with demonstrations, video, and some experiential work.

DAN 2020. World Dance (3).S.

GEN ED: Fine Arts Designation; Local to Global Perspective (Theme: "Performance of Culture")

This course will explore dance as a vital contribution to cultural understanding from various regions and cultures around the world including the Americas, Africa, Europe, Asia and Oceania.

DAN 2030. Dance, Media and Culture (3).On Demand.

GEN ED: Fine Arts Designation; Local to Global Perspective (Theme: "Performance of Culture")

This course will focus on the intersection of dance, media and culture by contextualizing an emerging role of dance from an elitist perspective to a populist activity. Content will include a global perspective of dance on film, technological advances in digital dance media and the creation of fusion dance forms as a means of cultural expression.

DAN 2106. Performance Activity: Dance (0-1).F;S.

Performance activity is available to all students by audition for dance ensemble. May be repeated for credit. A maximum of two semester hours of credit in DAN 2106 will apply toward graduation.

DAN 2107. Production Running Crew (0-1).F;S.

Production running crew is available to all students. Specific jobs and hours will be arranged with the instructor. May be repeated for credit. A maximum of two semester hours of credit in DAN 2107 will apply toward graduation.

DAN 2400. Modern Dance II (2).F;S.

GEN ED: Wellness Literacy

A second (intermediate) level study of modern technique and basic elements of dance with more emphasis given to the refinement of skills and aesthetic elements. May be repeated one time for credit. Prerequisite: DAN 1400 or permission of the instructor. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 2410. Ballet II (2).F;S.

GEN ED: Wellness Literacy

An intermediate/advanced level study of the art of classical ballet technique facilitating skill in allegro and adagio work with an emphasis on developing line, style, placement and musicality. Focus will be on expanding the dancer's artistry through the development of articulation, precision and conditioning. May be repeated one time for credit. Prerequisite: DAN 1410 or permission of the instructor. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 2420. Jazz II (2).S.

GEN ED: Wellness Literacy

A second level study of jazz technique and advanced elements of dance with more emphasis given to the refinement of skills including rhythmic awareness and dynamic interpretation. May be repeated one time for credit. Prerequisite: DAN 1420 or permission of the instructor. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 2500. Independent Study (1–4).F;S.

DAN 2600. Floor Barre (1).On Demand.

A study of the innovative technique based on the teachings of originator and founder, Zena Rommett. This class will help develop correct alignment, maximum turn-out, and improve balance as well as refine movement skills and increase vitality. May be repeated one time for credit. Prerequisite: permission of the instructor.

DAN 2610. Pointe (1).On Demand.

An intermediate to an advanced level study of the art of pointe work in the area of classical ballet technique, facilitating pointe skill in allegro and adagio work with an emphasis on developing line, style, placement and musicality. Focus will be on expanding the dancer's artistry through the development of footwork while strengthening ankles and legs with movement articulation, precision and conditioning. May be repeated one time for credit. Prerequisite: concurrent enrollment in a technique class or permission of the instructor.

DAN 3280. Yoga as Somatic Practice (2).S.

GEN ED: Wellness Literacy

This course will examine the basic principles of the physical practice of yoga known as Hatha Yoga. The course will explore the practice of asanas (sustained postures) and vinyasas (sequences of postures connected by breath), pranayama (breathing exercises) and pratyahara, (meditation practices). Students will also be introduced to the philosophical and historical context of Hatha yoga. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 3400. Advanced Dance Technique (1).F;S.

The course will explore the elements of rhythm, space, time and effort in advanced dance technique. Focus will be on expanding the dancer's artistry through the development of articulation, precision and conditioning. Students will be expected to learn movement quickly and accurately. May be repeated for a total of four semester hours credit. Prerequisite: permission of the instructor.

DAN 3405. Modern Dance III (2).F;S.

An advanced level study of modern technique with emphasis on continued refinement of skills, aesthetics, and the performance of complex combinations. May be repeated for a total of 6 s.h. credit. Prerequisite: DAN 2400 or permission of the instructor.

DAN 3420. Dance Composition and Improvisation (3).F;S.

A beginning study of dance composition including the elements of time, space, and design. Guided explorations in improvisation will be given as tools for developing personal movement vocabulary and expanding choreographic possibilities. Emphasis will be placed on learning to look at dances and appraise their choreographic structure critically and objectively. The course will culminate with a solo choreographic work. Prerequisite: DAN 1400 or DAN 1410 or DAN 1420 or permission of the instructor.

DAN 3430. Dance History (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "The Body: Expression, Presentation, and Representation")

The study of the history of dance from the earliest times to the present. The course will focus on dance in relation to other art forms as well as on the cultural, aesthetic and philosophical influences on dance. (WRITING; MULTI-CULTURAL) (CORE: HUMANITIES)

DAN 3450. Dance Pedagogy (3).F;S.

This course will explore methods and theories of dance education through didactic and experiential means including lecture, observation, labs, practical teaching experiences, and feedback sessions. Lecture three hours, laboratory one hour. Prerequisite: DAN 1400 or DAN 1410 or DAN 1420 or permission of the instructor.

DAN 3480. Pilates Conditioning I (2).F;S.

GEN ED: Wellness Literacy

This course is an experiential course based on the principles and teachings of Joseph H. Pilates. The Pilates method combines both Eastern and Western approaches to physical and mental conditioning with an emphasis on moving with maximum efficiency and precise control. May be repeated one time for credit. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 3500. Independent Study (1–4).F;S.

DAN 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

DAN 3530–3549. Selected Topics (1–4). On Demand.

A program involving advanced study, a research or creative project, and writing. Adapted to serve students who have exceptional interests. The proposals for this work must be approved by the instructor and the chair of the department prior to registration.

DAN 3580. Gyrokinesis (2).F;S.

GEN ED: Wellness Literacy

Gyrokinesis methodology, as developed by Julio Horvath, embraces key principles of dance, yoga, gymnastics and tai-chi. The method works the entire body using spinal articulations and undulating rhythms integrated with specific breathing patterns. (CORE: PHYSICAL ACTIVITY/WELLNESS)

DAN 3900. Internship (1-4).F;S.

Graded on an S/U basis.

DAN 4420. Choreography (0–2).F;S.

The course will focus on the increased awareness of design, dynamics, rhythm and motivation. Special attention will be given to design elements for small groups. There will be continued work in the observation, analysis and appraisal of dances. The class will culminate in a duet or trio choreographic work. Prerequisite: DAN 3420. May be repeated for a total of three semester hours credit.

DAN 4460. Somatics (3).F;S.

GEN ED: Wellness Literacy

This course will focus on functional anatomy and kinesiology to explore different approaches to therapeutic body-centered learning and current concepts in wellness. The course will be lecture and experiential in nature. (CORE: PHYSICAL ACTIVITY/WELLNESS) [Dual-listed with DAN 5460.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

DAN 4480. Pilates Conditioning II (2).F;S.

A second level study of the Pilates method, based on the concepts of centering, concentration, control, precision, breath and flow. This course will introduce the equipment and the apparatus developed by Joseph H. Pilates. May be repeated one time for credit. Prerequisite: DAN 3480 or permission of the instructor. [Dual-listed with DAN 5480.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

DAN 4510. Senior Honors Thesis/Project (3).On Demand.

Independent study and research for a dance studies thesis or project. Directed and graded by a dance faculty member in the Department of Theatre and Dance. (By invitation or application only.)

DAN 4830. Collaborative Process (3).F.

GEN ED: Junior Writing in the Discipline (WID)

This course will explore the collaborative process in dance. Histories of great collaborations will be explored. Theoretical perspectives of creative process, the nature of creativity in collaborative work, crossing disciplines, and group process will be addressed. The course will be lecture, discussion and experiential in nature. Research projects and collaborative projects will be presented orally. Prerequisites: senior standing and permission of the instructor; and ENG 2001 or its equivalent. (WRITING; SPEAKING)

DAN 4840. Capstone (3).S.

GEN ED: Capstone Experience

Capstone is the culminating course requirement for the Bachelor of Arts degree in Dance Studies. It is an opportunity for the student to explore and discover the connections between the discipline of dance and another selected area of study. Students will be expected to create an in-depth senior project which illustrates and focuses on this resulting integration of disciplines. Students will be required to present and discuss the development as well as other aspects of their project in class, and they will also be required to present their final project in a public forum to students and faculty. A written synthesis of the process and project reflecting on the student's ability to create meaningful connections between disciplines is also required. Prerequisites: senior standing and permission of the instructor.

DAN 4870. Creative Process, Movement, and Therapy (3).S. Odd-numbered years.

An examination of body awareness, creative expression, and movement in therapy. Particular attention will be paid to the concept of creative process and how it relates to human development, personality integration, and healing. [Dual-listed with HPC 5870.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

The College of Health Sciences

The College of Health Sciences

Frederick K. Whitt, Founding Dean

Susan D. Roggenkamp, Associate Dean

www.healthsciences.appstate.edu

The mission of the College of Health Sciences is to prepare well-educated and highly-qualified professionals, conduct innovative research, and promote community engagement. Through these activities, the College is dedicated to enhancing the physical, emotional, and social health across the lifespan for individuals, families, and communities within North Carolina and beyond. The College melds the disciplines of athletic training, communication sciences and disorders, exercise science, health care management, health promotion, nursing, nutrition and foods, physical education, recreation management, and social work. Through this unique blend of disciplines, the College integrates health, wellness, and education to position Appalachian State as the premier University for the outstanding academic preparation of health and human sciences professionals in western North Carolina and throughout the southeastern United States.

To exemplify its mission and vision, the College of Health Sciences will:

1. Prepare highly-qualified professionals to address North Carolina's and the region's health professions workforce needs
2. Strive to advance improved models of healthcare and human service systems throughout North Carolina and the region
3. Provide socially responsive clinical and community services in northwestern North Carolina
4. Operate state of the art research, educational, and clinical facilities in the College
5. Implement a collaborative model of education, research, and clinical outreach
6. Welcome diversity in faculty, staff and students
7. Graduate life-long learners who apply contemporary research to professional practice and who provide quality services in a respectful and caring environment

Departments

The College of Health Sciences consists of the following academic units:

- Communication Sciences and Disorders
- Health, Leisure and Exercise Science
- Nursing
- Nutrition and Health Care Management
- Social Work

Degrees Offered

The College of Health Sciences offers the following degrees: Bachelor of Science (without teacher licensure), Bachelor of Science in Nursing (BSN), and Bachelor of Social Work (BSW). In cooperation with the Reich College of Education, the College of Health Sciences also offers the Bachelor of Science degree with teacher licensure in Physical Education Teacher Education (K-12).

Admission to the College of Health Sciences

To be admitted to the College of Health Sciences, a student must meet the following requirements to officially declare a major:

1. Completion of at least 30 semester hours
2. A grade-point average of at least 2.0
3. Credit for ENG 1000 or an equivalent course and credit for or current enrollment in UCO 1200 or an equivalent course
4. Admission to one of the majors offered in the College, which may include additional requirements. *Please see the description of admission requirements in the section for the specific department housing the major.*

Students must also seek admission to the major and meet any additional requirements specified for the major. Some degree programs in the College of Health Sciences are competitive with limited numbers of slots available. Students should carefully review the description in the department of their intended program of study for individual major admission requirements.

Basic Requirements for a Degree

NOTE: *Although the requirements for most degree programs at Appalachian can be met within the minimum of 122 semester hours, the student should be aware that certain programs of study require additional hours. Students are advised to check with the department of their intended major early in their studies. Meeting graduation requirements is the student's responsibility.*

Bachelor of Science (without teacher licensure)

To earn the Bachelor of Science degree in the College of Health Sciences, a student must meet the following requirements:

1. Completion of at least 122 semester hours with a minimum cumulative grade-point average of 2.0* and a major grade-point average of 2.0. (*Athletic Training requires a cumulative grade-point average of 2.5 and a major grade-point average of 2.0.)
2. Completion of the general education requirements

The College of Health Sciences

3. Completion of the major requirements from one of the following majors:
 - Athletic Training (*See the Department of Health, Leisure and Exercise Science.*)
 - Communication Sciences and Disorders (*See the Department of Communication Sciences and Disorders.*)
 - Exercise Science (*See the Department of Health, Leisure and Exercise Science.*)
 - Health Care Management (*See the Department of Nutrition and Health Care Management.*)
 - Health Promotion (*See the Department of Health, Leisure and Exercise Science.*)
 - Nutrition and Foods (*See the Department of Nutrition and Health Care Management.*)
 - Recreation Management (*See the Department of Health, Leisure and Exercise Science.*)
4. Electives to complete at least 122* semester hours. A minimum of two semester hours of electives must be outside the major discipline. [*The following degrees require more than 122 semester hours for graduation: Exercise Science (126 s.h.), Health Care Management (125 s.h.), Nutrition and Foods (122 s.h. or 124 s.h.).]
5. Completion of residency requirements
6. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Bachelor of Science (with teacher licensure)

Refer to the Department of Health, Leisure and Exercise Science for the Bachelor of Science degree with teacher licensure in Physical Education Teacher Education, K-12 (126-128 semester hours).

Meeting graduation requirements is the responsibility of the student.

Bachelor of Science in Nursing

To earn the Bachelor of Science in Nursing in the College of Health Sciences, the student must meet the following requirements:

1. Completion of at least 124 semester hours with a minimum cumulative grade-point average of 2.5 and a minimum major grade-point average of 2.5
2. Completion of general education requirements (or the RN to BSN required core)
3. Completion of major requirements for the Nursing major (*See the Department of Nursing.*)
4. Students must earn at least a 2.0 ("C") grade in EACH required course in the major
5. Electives to complete 124 semester hours. A minimum of two semester hours of electives must be outside the major discipline.
6. Completion of residency requirements for prelicensure students
7. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Bachelor of Social Work

To earn the Bachelor of Social Work (BSW) in the College of Health Sciences, the student must meet the following requirements:

1. Completion of a minimum of 122 semester hours with a cumulative grade-point average of at least 2.5 and a major grade-point average of at least 2.5
2. Completion of general education requirements
3. Completion of major requirements for the social work major (*See the Department of Social Work.*)
4. Students must earn at least a 2.0 ("C") grade in EACH required course in the major
5. Electives to complete 122 semester hours. A minimum of two semester hours of electives must be outside the major discipline.
6. Completion of residency requirements
7. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Academic Advising

Academic advising for students in the College of Health Sciences is available in each of the departments in the College. Advising is required prior to each registration and encouraged at other times. The Student Services Center of the College of Health Sciences, housed in 102 Edwin Duncan Hall, works to enhance, develop and implement supportive academic services for undergraduate Health Sciences majors. Undeclared students and students in other programs are also provided with academic services related to classes offered within the college. Students are encouraged to become familiar with the services provided by this office beginning with their first semester in CHS.

The College of Health Sciences

The Student Services Center in the College of Health Sciences certifies students for graduation; provides senior academic audits; assists students with special course processing, dropping and adding classes, overload requests; and responds to inquiries regarding students' academic programs.

Although academic advising is provided for all students, the final responsibility for meeting requirements for graduation remains with the student. The Student Services Center automatically sends a senior check to all students at least one semester prior to graduation and encourages students to review this document thoroughly.

Grade-Point Average Requirements for Graduation

To graduate, a minimum cumulative grade-point average of 2.0 is required (except for teacher licensure, athletic training, social work, and nursing programs, which require 2.5). A minimum grade-point average of 2.0 is also required in the major (2.5 for nursing and social work). Included in the calculation of the major grade-point average are all courses taken in the major department, all courses in the approved program of study/contract/concentration, and all cognate courses.

Internship and Practicum Programs

The internships and practicums offered in the College of Health Sciences provide students with opportunities to:

- Learn outside of the regular classroom and gain on-the job experience;
- Experience professional practice required for licensure or certification, while earning academic credit toward their degrees; and,
- Develop personal professional contacts with potential employers.

In the internship or practicum, students work in an appropriate organization related to their course of study. Professionals in the sponsoring organization, in close cooperation with faculty in the student's major department, provide internship instruction. The student's career interests should be considered when the student makes internship assignments and placements. In many majors and career-oriented concentrations, an internship is required in the course of study; in others, the internship is available as an elective. Students seeking further information should contact their major advisor or their departmental chair.

Scholarships

The College of Health Sciences offers scholarships to incoming freshmen who intend to major in one of the degree programs of the College. These scholarships are awarded based on the student's SAT, high school performance and leadership, and potential for a career in the health sciences. Additional scholarships are available to upper-division students who have declared one of the majors in the College. These scholarships are awarded by the department in which the scholarship is established based on specific criteria as designated by the scholarship donor or the department. Students receiving scholarships in the College of Health Sciences must be in good academic standing and make acceptable progress toward completing a degree in the College.

For more information, visit the college's website at www.healthsciences.appstate.edu/student-services/scholarships, or contact either the chair of the department awarding the scholarship of interest or the Dean's Office, College of Health Sciences, ASU Box 32170, Boone, North Carolina 28608.

Blue Cross and Blue Shield of NC Institute for Health and Human Services

www.ihhs.appstate.edu

Mary Sheryl Horine, Interim Director

The purpose of the Blue Cross and Blue Shield of North Carolina Institute for Health and Human Services, within the College of Health Sciences, is to provide multidisciplinary research opportunities, clinical services, and training programs all related to public health. Meeting the needs of students, faculty and the regional community, the Institute strives to advance knowledge through pragmatic research and complimentary experiential learning opportunities such as internships, practicums, clinical rotations, professional continuing education and community based leadership opportunities.

Department of Communication Sciences and Disorders (CSD)

Dawn C. Botts, Interim Chair

Donna M. Brown

Thalia J. Coleman

Jennifer C. Dalton

Michelle Flippin

Lori S. Gonzalez

Bliss Hemric

Louise C. Keegan

Joseph F. Klein

Angela S. Losardo

C. Robin Morehouse

Julie P. Roberts

Mary Ruth Sizer

Sherry L. Street-Tobin

Sheila Temple

Jennifer P. Van Gilder

Helen Wolter

The Department of Communication Sciences and Disorders (CSD) is devoted to the study of human communication and associated disorders. All students pursuing programs in the Department of Communication Sciences and Disorders must meet all requirements for admission into the College of Health Sciences.

The Department of Communication Sciences and Disorders offers the following:

Bachelor of Science in Communication Sciences and Disorders (820A/51.0201)

Undergraduate minor in Communication Sciences and Disorders (820/51.0201)

Master of Science in Speech-Language Pathology (821A/51.0203)[T]

For information on the Master of Science degree program in Speech-Language Pathology, please consult the current *Graduate Bulletin* or contact the department chair.

Bachelor of Science degree in Communication Sciences and Disorders (820A/51.0201)

The Department of Communication Sciences and Disorders offers a preprofessional program in the study of human communication and associated disorders. Upon successful completion of a master's degree, students are eligible for licensure by the State of North Carolina, certification by the American Speech-Language and Hearing Association, and licensure by the North Carolina State Department of Public Instruction.

The program of study is available at: www.programsofstudy.appstate.edu/communication-sciences-and-disorders-bs-820a-2012-2013

Criteria for Admission to the Communication Sciences and Disorders Program

Formal application for admission to the communication sciences and disorders program is required of all students. Admission is competitive and an interview is required if there are more applicants than can be admitted.

Minimum Application Requirements: 30 semester hours completed, minimum cumulative GPA of 2.5

Minimum Admission Requirements: 45 semester hours completed, minimum cumulative GPA of 2.5, Speech Prerequisite Screening by the Communication Disorders Clinic, completion of interview if required, completion of prerequisite courses, and acceptable Praxis I scores

Prerequisite Courses: ENG 1000 (minimum grade of 2.0, transfer equivalency accepted, including AP or University Placement), ENG 2001 or an equivalent course, four semester hours of the general education science inquiry perspective requirement (transfer equivalency accepted, including AP or University Placement), CSD 2259 and CSD 2260 (transfer equivalency accepted for both)

Praxis Scores and Equivalencies: 1) NC Passing Scores: Reading (176), Writing (173), Math (173); 2) 522 composite Praxis I score accepted if Reading and Writing scores are at or above the stated NC passing level; 3) Composite score (SAT Reading and Math; ACT English and Math) - SAT at least 1100 or ACT at least 24 - exempted from Praxis I; 4) SAT Reading at least 550 or ACT English at least 24 - exempted from Praxis I Reading and Writing; 5) SAT Math at least 550 or ACT Math at least 24 - exempted from Praxis I Math

Note: Meeting the above requirements does not guarantee admission to the undergraduate degree program in communication sciences and disorders. The Department can only admit a limited number of students each Fall and Spring. Application closing dates are October 1 for Spring, March 1 for Summer or Fall, and June 10 for Fall if space is available. Final admission decisions will be made after semester grades are officially recorded. Students may apply for admission a maximum of three times.

Additional information regarding the admission process is available at: www.comdis.appstate.edu/undergraduate-admissions

Students interested in pursuing licensure and national certification in speech pathology by the American Speech-Language and Hearing Association must apply, be accepted and complete a Master of Science degree program in Speech-Language Pathology, such as the one offered by Appalachian State University.

Minor in Communication Sciences and Disorders (820/51.0201) (15 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/communication-sciences-and-disorders-minor-820-2012-2013

Communication Disorders Clinic

Dawn C. Botts, Director

www.cdclinic.appstate.edu

The Department of Communication Sciences and Disorders is home to the Charles E. and Geneva S. Scott Communication Disorders Clinic which serves as a community-based training facility for graduate students pursuing their master's degree in speech-language pathology. The Clinic, a non-profit organization, is located in University Hall at Appalachian State University. Established in September of 1968, the primary mission of the Clinic is to provide clinical learning experiences for students majoring in speech-language pathology. The Clinic is recognized for the outstanding clinical services provided to individuals of all ages from the Boone and Western North Carolina regions. There is currently no charge to Appalachian students for services; otherwise the Clinic operates on a fee-for-service basis. For more information, please call (828) 262-2185.

Courses of Instruction in Communication Sciences and Disorders (CSD)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

COMMUNICATION SCIENCES AND DISORDERS (CSD)

CSD 2259. Communication Disorders (3).F;S.

An introduction to the disorders of human communication in children and adults. (Meets ASHA III-C, III-D, III-H)

CSD 2260. Anatomy and Physiology of the Speech and Hearing Mechanism (3).F;S.

The structure and function of the systems involved in normal speech perception and production. (Meets ASHA III-B, III-C, III-D)

CSD 2361. Phonetics (3).F;S.

The phonetic/phonemic systems of English concentrating on I.P.A. transcription skills. Prerequisite: admission to the Communication Sciences and Disorders program. (Meets ASHA III-B, III-C, III-D)

CSD 2464. Basic Speech and Hearing Science (3).F;S.

An introduction to speech and hearing science theory, instrumentation, and measurement. Emphasizes normal speech perception and production to establish a reference for pathological deviations. Prerequisite: admission to the Communication Sciences and Disorders program. Corequisite: CSD 2465. (Meets ASHA III-B)

CSD 2465. Basic Speech and Hearing Science Laboratory (1).F;S.

This laboratory is designed to provide students with hands-on experiences with instrumentation in the speech and hearing sciences. Through these experiences, students will apply concepts of speech perception, acoustic phonetics, and speech production in laboratory and clinical settings. Prerequisite: admission to the Communication Sciences and Disorders program. Corequisite: CSD 2464. (Meets ASHA III-B)

CSD 2500. Independent Study (1-4).F;S.

CSD 3201. Language Disorders Across the Lifespan (3).F;S.

An overview of disorders of receptive and expressive language, and cognitive and social aspects of communication, including the etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates. (Meets ASHA III-C)

CSD 3202. Speech Disorders Across the Lifespan (3).F;S.

An overview of speech disorders affecting articulation, fluency, voice, resonance, and swallowing, including the etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates. (Meets ASHA III-C)

CSD 3320. Cultural Diversity and Communication Disorders (3).F;S.

This course provides instruction in professional communication with clients and their families and emphasizes the utilization of best practice in the delivery of services while honoring different customs, beliefs, and values. This course will focus on the development of intercultural competence in speech-language pathologists. (Meets ASHA III-B, III-C, III-E)

CSD 3340. Syndromes and Conditions with Associated Communication Disorders (3).F;S.

This course provides a broad overview of syndromes and conditions with associated communication disorders that are likely to be encountered by speech-language pathologists. Up-to-date information is provided about the etiology of each of the disorders and the types of speech, voice, resonance, language, and cognitive disorders associated with each syndrome. (Meets ASHA III-C)

CSD 3350. Evaluating Research in Communication Sciences and Disorders (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

An introduction to the principles and practices of research in communication sciences and disorders, including experimental design, statistical methods, and application to clinical populations and evidence-based practice. Prerequisites: ENG 2001 or its equivalent, STT 1810 or STT 2810, and admission to the Communication Sciences and Disorders program. (Meets ASHA III-F) (WRITING)

CSD 3366. Communication Development (3).F;S.

Verbal and nonverbal communication development of the child. (Meets ASHA III-B)

CSD 3368. American Sign Language I (3).F;S.

An introduction to the content, form, and use of American Sign Language. A special emphasis is placed on the characteristics of Deaf culture and the various methods of communicating with individuals who are deaf or hard of hearing. (Meets ASHA II-B, III-D)

CSD 3370. American Sign Language II (3).F;S.

Advanced study of the content, form, and use of American Sign Language. Students will gain experience using ASL in narrative and conversational contexts, thereby expanding their appreciation of Deaf culture. Prerequisite: CSD 3368. (Meets ASHA II-B, III-D)

CSD 3500. Independent Study (1–4).F;S.

CSD 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for total credit of three semester hours.

CSD 3530–3549. Selected Topics (1–4). On Demand.

CSD 3660. Audiology Seminar and Practicum (1).F;S.

This course will allow the student to explore audiologic evaluation through practicum experience and to become familiar with advanced testing procedures. It is designed for the student who has excelled in CSD 4364 (Audiology) and wishes to pursue more information in this area. The student must submit an application and be approved by the instructor to take this course. Prerequisite: admission to the Communication Sciences and Disorders program. (Meets ASHA II-B and III-B) (WRITING)

CSD 4162. Structural Analysis of Language (3).F;S.

A study of language content, form, and use with special emphasis on the acquisition of descriptive taxonomies for the classification of spoken language samples. The course includes guided and independent practice in language sampling and analysis procedures. Prerequisite: admission to the Communication Sciences and Disorders program. (Meets ASHA III-B, III-C, III-D, IV-G) [Dual-listed with CSD 5162.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CSD 4364. Audiology (3).F;S.

The science of hearing and the etiologies of hearing impairment. Prerequisites: CSD 2259, CSD 2260, CSD 2464, and CSD 2465; or permission of the department chair; and admission to the Communication Sciences and Disorders program. (Meets ASHA III-C, III-D, IV-G) [Dual-listed with CSD 5364.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CSD 4662. Management of Hearing Disorders (3).S.

Studies of the habilitation/rehabilitation of hearing impairments in preschool and school-aged children and adults. Emphasis on prescriptive and resource curricular management. Includes audition training, speech reading methods, and a survey of hearing aid monitoring techniques. Prerequisites: CSD 4364 and admission to the Communication Sciences and Disorders program. (Meets ASHA III-C, III-D, IV-G) [Dual-listed with CSD 5662.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CSD 4766. Neuroanatomy and Physiology (3).F;S.

Basic anatomy and physiology of the central and peripheral nervous systems with special emphasis on neural systems involved in normal and disordered speech, language, and hearing. Prerequisites: CSD 2260 and admission to the Communication Sciences and Disorders program. (Meets ASHA III-B) [Dual-listed with CSD 5766.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

CSD 4850. Adult Language Disorders (3).F;S.

GEN ED: Capstone Experience

Description, assessment, differential diagnosis and management of acquired neurogenic language disorders, including aphasia, right hemisphere disorder, traumatic brain injury, and dementia. Emphasis is given to neurological bases, characteristics, etiologies, and clinical management within the framework of the International Classification of Function. Prerequisite: admission to the Communication Sciences and Disorders program. Prerequisite or corequisite: CSD 4766 or permission of the department chair. (Meets ASHA I11C-G) (WRITING) [Dual-listed with CSD 5850.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

Department of Health, Leisure and Exercise Science (HLE)

Paul L. Gaskill, Chair

Gregory Anoufrieu

Melanie D. Austin

Rebecca A. Battista

Mary Ann Bolick

Jerry P. Cantwell

Scott R. Collier

Travis M. Erickson

Eric D. Frauman

Ashley Goodman

Tracie Haines

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Marion C. Howell

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Michael W. Kernodle

Amy M. Knab

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Steve McAnulty

Jeffrey M. McBride

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Derek J. Mohr

David M. Morris

Jamie L. Moul

David C. Nieman

Edgar L. Peck

Susan S. Perry

Erik Rabinowitz

Laurie A. Rivera

Jan C. Rowe

R. Andrew Shanely

Christopher S. Shreve

Ritchie G. Shuford

Ben A. Sibley

Jeffrey T. Soukup

Scott Townsend

N. Travis Triplett

Alan C. Utter

Colleen M. Utter

Melissa J. Weddell

Stephanie T. West

Frederick K. Whitt

Wayne E. Williams

Jennifer Zwetsloot

Kevin A. Zwetsloot

The Department of Health, Leisure and Exercise Science assumes the responsibility for educating students about the significance of human movement, quality leisure, optimal health, and personal safety. The department offers instruction, research and services to meet these needs and respond to current societal trends. Consequently, the student is prepared to develop and lead related activities and programs in a variety of community settings, having acquired knowledge and skills to plan and implement programs for diverse populations. The department also offers ongoing services for all students, faculty and staff, and actively supports the following student organizations: Health Promotion Club, Physical Education Major's Club, Athletic Training Club, Exercise Science Club, and the Recreation Management Association.

Athletic Training (AT)

The Athletic Training degree will provide the undergraduate student with a blend of academic coursework and clinical experience in appropriate athletic training settings. This degree will prepare students to practice athletic training in appropriate settings.

The Bachelor of Science degree in Athletic Training (565A/51.0913)

The program of study is available at: www.programsofstudy.appstate.edu/athletic-training-bs-565a-2012-2013

The Athletic Training program requires the student to apply for admission to the curriculum. Requirements for admission: submission of a program application, a 2.5 cumulative GPA from Appalachian State University, a minimum of 30 hours of active observation in Appalachian State University's athletic training rooms, three letters of recommendation, a journal, a goal statement, an insight statement, a signed Technical Standards document (available on the web site for the HLES department), a physical screen and a personal interview. Students must maintain a 2.5 GPA and must earn a grade of "C" or higher in AT 1600, AT 2100, AT 2300, AT 2400, AT 3215, AT 3600, AT 3610, AT 3615, AT 3620, AT 3625, AT 4025, and AT 4030. The Athletic Training program is a CAATE accredited program that prepares the student for the BOC Examination and North Carolina licensure. Contact the director of the Athletic Training curriculum in the Department of Health, Leisure and Exercise Science for further information.

Exercise Science (ES)

The Exercise Science degree is a cross discipline commitment from scientists and educators to strive for a holistic approach to the multi-discipline understanding of exercise and its relation to health and fitness. The graduate should develop a sound science background with the communication and writing skills necessary to apply the knowledge in a practical hands-on situation.

The Bachelor of Science degree in Exercise Science (567*/31.0505)

For the Bachelor of Science in Exercise Science, students must select one of the following concentrations:

Clinical Exercise Physiology concentration (567E):

The program of study is available at: www.programsofstudy.appstate.edu/exercise-science-bs-clinical-exercise-physiology-567e-2012-2013

Pre-Professional concentration (567B):

The program of study is available at: www.programsofstudy.appstate.edu/exercise-science-bs-pre-professional-567b-2012-2013

Strength and Conditioning concentration (567D):

The program of study is available at: www.programsofstudy.appstate.edu/exercise-science-bs-strength-and-conditioning-567d-2012-2013

Minor in Exercise Science (519/31.0505) (19 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/exercise-science-minor-519-2012-2013

Health Promotion (HP)

Students earning a Health Promotion degree will have the competencies needed to provide leadership in health promotion and disease prevention for communities, hospitals, voluntary agencies, schools, and private industry.

The Bachelor of Science degree in Health Promotion (509A/51.2207)

The program of study is available at: www.programsofstudy.appstate.edu/health-promotion-bs-509a-2012-2013

Minor in Health Promotion (509/51.2207) (17 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/health-promotion-minor-509-2012-2013

Physical Education Teacher Education, K-12 (with teacher licensure) (PETE)

Graduates earning a Bachelor of Science degree in Physical Education Teacher Education (PETE), K-12 will be prepared to assume the challenging role of 21st century educators who are capable of and committed to improving school-aged children's health and wellness. Twenty-first century physical educators must possess the knowledge, skills and dispositions necessary to advance psycho-motor, cognitive and affective learning in movement-centered instructional environments. Accordingly, the PETE program maintains national accreditation (NASPE/NCATE BTS) and state program approval (NCDPI) to ensure that teacher candidates achieve desired outcomes. Graduates of Appalachian State University's PETE program will:

- Be licensed K-12 Physical Education Teachers;
- Be competent instructors, committed-ethical leaders, and reflective practitioners committed to lifelong professional development;
- Employ empirically validated planning, instruction and assessment behaviors;
- Possess the ability to impact school-aged children's health and wellness in positive, meaningful, and sustainable ways;
- Work to resolve, in a proactive, collaborative and responsible fashion, community, state, and national health issues.

The Bachelor of Science in Physical Education Teacher Education, K-12 (564A/13.1314)[T] (with teacher licensure)

The program of study is available at: www.programsofstudy.appstate.edu/physical-education-teacher-education-k-12-bs-564a-2012-2013

Recreation Management (RM)

Students completing the Bachelor of Science degree in Recreation Management are prepared for careers in outdoor recreation, experiential education, travel and tourism, club management, recreation program management, and resort recreation.

The Bachelor of Science degree in Recreation Management (574*/31.0301)

For the Bachelor of Science in Recreation Management, students must select one of the following concentrations:

Commercial Recreation and Tourism Management concentration (574G):

The program of study is available at: www.programsofstudy.appstate.edu/recreation-management-bs-commercial-recreation-and-tourism-management-574g-2012-2013

Outdoor Experiential Education concentration (574F):

The program of study is available at: www.programsofstudy.appstate.edu/recreation-management-bs-outdoor-experiential-education-574f-2012-2013

Recreation and Park Management concentration (574E):

The program of study is available at: www.programsofstudy.appstate.edu/recreation-management-bs-recreation-and-park-management-574e-2012-2013

Students are required to complete an internship and a minor in a supporting field. Internship information—RM 4900, Internship is required for the major in recreation management. RM 3900, Recreation Practicum is required for the minor in recreation management. RM 3900 may be taken as an elective course by majors. The following rules apply to prospective interns: (1) Credit for the RM 4900 course may not exceed 12 semester hours. (2) Not more than 15 semester hours of internship and practicum credit may be applied toward graduation requirements. (3) On-the-job internship time is determined by the ratio of fifty (50) contact hours for one hour of credit. (4) All prospective interns must plan their placement under the supervision of a recreation management faculty member, and (5) All internships must be for ten continuous weeks.

Minor in Recreation Management (575/31.0301) (20 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/recreation-management-minor-575-2012-2013

Graduate Degree

The Department of Health, Leisure and Exercise Science offers the following degree at the graduate level: Master of Science degree in Exercise Science with concentrations in Clinical Exercise Physiology, Research, and Strength & Conditioning. Persons interested in this degree are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Athletic Training (AT), Exercise Science (ES), Health Promotion (HP), Physical Education (PE), and Recreation Management (RM)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms.

(For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

ATHLETIC TRAINING (AT)

AT 1600. Introduction to Athletic Training (2).F;S.

An introductory course to athletic training. Topics covered include safety in the training room, musculoskeletal and surface anatomy, sports medicine terminology, injury recognition and basic evaluation, use of therapeutic modalities, and rehabilitation techniques. Lecture two hours, laboratory one hour.

AT 2100. Athletic Training Clinical Seminar (2).F.

This seminar course should be taken by students in their second year of the athletic training program. Course content will focus on fabrication of protective equipment, spinal injuries and management, emergency planning, and will supplement the learning experience gained from clinical work. Prerequisite: AT 1600. Lecture two hours.

AT 2200. Athletic Training Clinical Laboratory I (2).S.

A guided, practical clinical experience for the entry level athletic training student. Experiences will include, but not be limited to, general athletic training room operation and instruction and application of cryotherapy, thermotherapy, flexibility, wellness and environmental screening techniques, and prophylactic taping. Prerequisite: acceptance into the CAATE accredited Athletic Training program. Clinical education experience two hours.

AT 2300. Manual Evaluation Techniques of Joint Movement (4).F.

The course covers the body's response to injury/illness, soft tissue and bony palpation, goniometry, manual muscle testing, posture evaluation, and gait analysis. It will provide a foundation for future courses in injury/illness evaluation and management. Hands-on practice with movement assessment techniques and cadaver dissection is provided. Prerequisites: AT 1600 and AT 2200. Lecture three hours, laboratory two hours.

AT 2400. Medical Conditions and Disabilities (4).S.

A course designed to expand on the knowledge gained in ES 2032, Human Anatomy and Physiology II. This course will also focus on the application of anatomy and physiology to the pathogenesis of disease and disabilities as they relate to allied health professionals. Prerequisites: AT 1600, AT 2300 and ES 2032. Lecture three hours, laboratory two hours.

AT 2600. Athletic Training Clinical Laboratory II (2).F.

A guided, practical clinical experience for the second semester athletic training student. Experiences will include, but not be limited to, instruction in and the application of techniques used to assess joint movement and function. Prerequisites: AT 1600 and AT 2200. Corequisite: ES 2031. Clinical education experience two hours.

AT 2700. Athletic Training Clinical Laboratory III (2).S.

A guided, practical clinical experience for the third semester athletic training student. Experiences will include, but not be limited to, instruction in and the application of techniques used to assess joint movement and function and therapeutic modalities. Prerequisite: AT 2600. Clinical education experience two hours.

AT 3000. Athletic Training Clinical Laboratory IV (3).F.

A guided, practical clinical experience for the fourth semester athletic training student. Experiences will include, but not be limited to, instruction in and the application of techniques used to evaluate injuries/illness. Prerequisite: AT 2700. Clinical education experience three hours.

AT 3215. Athletic Training Clinical Organization and Administration (2).F.

A course focusing on the organizational and administrative components of an athletic training program including those pertaining to: a) facility design; b) health care; c) financial management; d) training room management; e) use of computers in the training room; and f) public relations. (COMPUTER)

AT 3400. Athletic Training Clinical Laboratory V (3).S.

A guided, practical clinical experience for the fifth semester athletic training student. Experiences will include, but not be limited to, instruction in and the application of techniques used to evaluate and rehabilitate injuries/illness. Prerequisite: AT 3000. Clinical education experience three hours.

AT 3530–3549. Selected Topics (1–4). On Demand.

AT 3600. Orthopedic Clinical Evaluation and Diagnosis I (3).F.

An advanced course in orthopedic clinical evaluation and diagnosis. The course will include introductory material related to orthopedic clinical evaluation and diagnosis and in-depth investigation of the foot and ankle, knee, hip, and shoulder. Hands-on practice with orthopedic clinical evaluation and diagnostic procedures is provided. Prerequisite: AT 2300. Lecture three hours.

AT 3610. Therapeutic Modalities (2).S.

GEN ED: Junior Writing in the Discipline (WID)

The course covers the physical basis and physiological effects of agents and modalities used in the treatment of athletic injuries. The emphasis will be on establishing a theoretical foundation for selecting a treatment protocol for an injury. Hands-on practice with equipment is provided. Prerequisites: AT 1600, ES 2031, and ENG 2001 or its equivalent. Lecture two hours, laboratory one hour. (WRITING)

AT 3615. Orthopedic Clinical Evaluation and Diagnosis II (3).S.

The student will have the opportunity to build on knowledge acquired in AT 3600. In-depth investigation of orthopedic clinical evaluation and diagnosis of the upper extremity, abdomen, lumbar, thoracic, cervical spine, and head and face will be included. Prerequisite: AT 3600. Lecture three hours.

AT 3620. Conditioning and Rehabilitative Exercises I (3).F.

The course covers the principles of conditioning and rehabilitative exercises. Topics for discussion include the five principles of rehabilitation, principles of exercise progression, cardiovascular and muscular conditioning, aquatic exercise, plyometric exercise, and isokinetic testing. Hands-on practice with equipment is provided. Prerequisite: AT 2300. Lecture three hours.

AT 3625. Conditioning and Rehabilitative Exercises II (3).S.

The student will build on knowledge acquired in AT 3620. In-depth investigation of anatomically based rehabilitation techniques, criteria for return to activity, and basics of surgical procedures will be included. Hands-on practice with equipment is provided. Prerequisite: AT 3620. Corequisite: AT 3615. Lecture three hours.

AT 4000. Athletic Training Clinical Laboratory VI (4).F;S.

A guided, practical experience for advanced level athletic training students. Experiences will include, but not be limited to, organization and administration within medical settings, general medical experience, and evaluation, treatment, and rehabilitation of injuries/illnesses. Prerequisite: AT 3400. May be repeated for a total credit of eight semester hours. Clinical education experience four hours.

AT 4025. Advanced Athletic Training (3).F.

The course covers nutritional aspects of injuries and illnesses, psychological intervention and referral, and pharmacology. Prerequisites: AT 3600, AT 3610, AT 3620, and HP 1105. Lecture three hours. (WRITING)

AT 4030. Evidence-Based Practice in Athletic Training (2).F.

GEN ED: Capstone Experience

A course designed for senior athletic training students. Discussion topics include research and writing in athletic training and professional development. Additionally, opportunities to interact with medical professionals and opportunities to improve problem-solving skills related to injury/illness evaluation and management will be provided. Prerequisites: AT 3615, AT 3625, and AT 4025. Lecture two hours.

EXERCISE SCIENCE (ES)

ES 2001. Physiological Kinesiology (3).F;S.

Anatomy, physiology and kinesiology relevant to teaching and evaluation of skill performance. Lecture three hours, laboratory two hours. A minimum grade of "C" (2.0) is required. Corequisites: PE 1550 and PE 2002.

ES 2005. Concepts in Fitness and Performance Evaluation (3).F;S.

This course acquaints the student with various aspects of developing and conducting a fitness program within the public sector. Principles of risk factor identification and stratification along with pre-participation health screening will be discussed. Methods of assessing health-related physical fitness will be taught in an applied manner and will include cardiorespiratory endurance, body composition, muscular strength and muscular endurance. The theory will be followed by application of the above parameters to the purposes, principles and precautions of an exercise program.

ES 2010. Exercise Physiology (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

The course will focus on: basic energy, musculoskeletal, nervous, cardiovascular and respiratory systems as they relate to aerobic and anaerobic exercise. Emphasis will be placed on the adaptations of these systems to training. Lecture two hours, laboratory two hours. Prerequisites: ES 2030 or equivalent and ENG 2001 or its equivalent. (WRITING)

ES 2015. Physiology for the PETE Major (3).F;S.

The course will focus on basic bioenergetics as well as on the musculoskeletal, cardiovascular, and respiratory systems as they relate to aerobic and anaerobic exercise. Emphasis will be placed on the acute and chronic adaptations of these systems to exercise. An introduction to the physiology of health and fitness while utilizing body composition and nutrition as it relates to the physical educator will be addressed. In most cases, concepts covered will be applied to children, adolescents and young adults. Lecture two hours, laboratory two hours. Prerequisite: ES 2001 or equivalent. (WRITING)

ES 2020. Measurement and Evaluation in Exercise Science (3).F;S.

Introduction to measurement and evaluation practices pertinent to exercise science. Emphasis will be placed on computer applications of data collection, organization, analysis, and interpretation. Prerequisite: MAT 1025 or higher. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

ES 2030. Concepts in Human Anatomy and Physiology (4).F;S.

This course will provide an overview of human anatomy and physiology with a particular focus on organ systems related to sports science, health, and wellness. Topics will include structure, function and the interrelationships of organ systems. Lecture three hours, laboratory two hours. Prerequisite: BIO 1101; or BIO 1801; or CHE 1101 and CHE 1110.

ES 2031. Human Anatomy and Physiology I (4).F;S.

This course is the first of a two-semester sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with an emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of the principles of anatomy and physiology and their interrelationships. Lecture three hours, laboratory three hours. Prerequisites: CHE 1101 and CHE 1110; or BIO 1101; or BIO 1801. Corequisites or prerequisites: BIO 1102; or BIO 1802; or CHE 1102 and CHE 1120.

ES 2032. Human Anatomy and Physiology II (4).F;S.

This course is the second of a two-semester sequence of the study of the structure and function of the human body and the mechanisms for maintaining homeostasis within it. The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems, as well as the concepts of development, metabolism, fluid and electrolyte balance, and acid-base balance are included. Upon completion, students should be able to demonstrate an in-depth understanding of the principles of anatomy and physiology and their interrelationships. Lecture three hours, laboratory three hours. Prerequisite: ES 2031.

ES 3005. Physiological Assessment and Program Management (3).F;S.

This course introduces the student to program administration and exercise leadership with an application of advanced physiological assessment. Maximal exercise testing, resting and exercising electrocardiogram, assessments for aerobic and anaerobic power, exercise capacity, measurement outcomes, and exercise programming will be covered in theory and application. Prerequisites: ES 2005, ES 2010 or equivalent. (SPEAKING)

ES 3450. Advanced Exercise Physiology (3).F;S.

This course includes a comprehensive review of bioenergetics, neuromuscular, endocrine and cardiorespiratory aspects of exercise and training. Training principles and their application to the development of sound training protocols will be presented. Lecture three hours. Prerequisites: BIO 1101 or BIO 1801, CHE 1101 and CHE 1110, and ES 2010 or equivalent.

ES 3500. Independent Study (1–4).F;S.

ES 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation.

Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

ES 3530–3549. Selected Topics (1–4). On Demand.

ES 3550. Introduction to Biomechanics (4).F;S.

A study of neuromuscular and mechanical principles of motion as related to the analysis of optimum motor skill performance. Prerequisites: ES 2030 or equivalent, and MAT 1025 or higher. Lecture three hours, laboratory two hours. (COMPUTER)

ES 3900. Internship (3–12).F;S.

A guided, practical experience at a qualified program site. All prospective interns should be declared exercise science majors and must plan their placement under the supervision of an exercise science internship coordinator. Internship credit is determined by the ratio of 40 contact hours for one hour of credit for a maximum of 12 s.h. Prerequisites: senior standing. Graded on an S/U basis.

ES 4000. Strength and Conditioning Theory and Practice (3).F.

A comprehensive study of training theory and methods with an emphasis on the development of maximal strength, power, and anaerobic capacity. Also included is a brief review of neuromuscular, musculoskeletal, endocrine, and bioenergetic aspects of exercise and training, as well as hands-on experience in lifts, drills, and testing procedures. Lecture three hours. Prerequisite: ES 2010. Prerequisite or corequisite: ES 3450.

ES 4050. Practicum: Pre-professional (3).F;S.

This course provides an educational experience in which the student must acquire 90 hours of observation/volunteer work in an occupation directly related to her/his career interest. Activities will focus on physical therapy and the role of the therapist within that profession. The practicum is open to juniors and seniors majoring in exercise science, providing an opportunity to fulfill prerequisite requirements for “observation” hours as set forth by most physical therapy schools and other related professions. Prerequisites: ES 2010, ES 3450 or equivalent. Graded on an S/U basis.

ES 4060. Practicum: Strength and Conditioning (3).F.

Practical application of scientific principles and concepts to human physical conditioning programs. Students will participate in relevant practical activities involving or related to exercise science or sports medicine. Prerequisites: ES 2010, ES 3450, ES 3550 or equivalent. Graded on an S/U basis.

ES 4555. Nutritional Aspects of Exercise and Sports (3).F;S.

A study of nutrition specific to physical activity and sport performance. Topics will include metabolism during exercise, sport-related weight gain and loss, food and fluid intake for competition, nutritional ergogenic aids, exercise recovery nutrition, and various special topics. Prerequisites: ES 2010, ES 2030 or equivalent, and ES 3450. Prerequisites or corequisites: CHE 2101 (or CHE 2201) and CHE 2203. (CROSS-DISCIPLINARY) (Same as NUT 4555.)

ES 4600. Survey of Sports Performance (3).S.

This course is designed to acquaint the student with a variety of non-Olympic, Summer and Winter Olympic sports. An overview of each sport will be presented, including sport rules, physiological and biomechanical requirements, and other performance characteristics. Typical resistance training programs for each sport will also be discussed. Prerequisite: ES 2010. Prerequisite or corequisite: ES 3450. [Dual-listed with ES 5600.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ES 4625. Concepts of Clinical Exercise Testing (3).F.

This course provides experience in clinical exercise testing and interpretation for various chronic disease populations. Students will be required to perform a variety of clinical exercise tests commonly used in the assessment of various chronic diseases. Emphasis will be placed on the development of clinical skills required to provide safe and effective testing and the ability to accurately interpret results. Prerequisites: ES 2010 and ES 3450 or similar coursework, and senior standing. [Dual-listed with ES 5625.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ES 4635. Electrocardiographic Interpretation (3).S.

This course provides an analysis of electrocardiographic concepts of the normal and abnormal ECG. Topics will include rate, rhythm, hypertrophy, axis determination, atrial and ventricular arrhythmias, conduction defects, myocardial ischemia, and myocardial infarction. In addition, the use of ECG monitoring during diagnostic exercise testing will be discussed. This course will also introduce the student to competencies required by the American College of Sports Medicine for certification as an Exercise Specialist or a Registered Clinical Exercise Physiologist. Prerequisites: ES 3450 or equivalent, and senior standing. [Dual-listed with ES 5635.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ES 4645. Cardiopulmonary Pathophysiology and Rehabilitation (3).F.

This course details the functions of the cardiovascular and respiratory systems emphasizing pathophysiology and treatment. Special reference will be made to exercise as a mode of therapy. Prerequisites: ES 2005 and ES 3450 or equivalent, and senior standing. [Dual-listed with ES 5645.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ES 4650. Seminar (1).F;S.

GEN ED: Capstone Experience

An "exit course" for exercise science majors. Students will interact with faculty, peers, and professionals in related fields. Topics will focus on synergistic effects of subspecialties, vocational opportunities, vita writing and interviewing, and other current professional issues in preparation for post-graduate career development. Prerequisite: senior standing. Graded on an S/U basis. [Dual-listed with ES 5550.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

ES 4660. Exercise Prescription and Chronic Disease Management (3).S.

This course presents a comprehensive overview of the physical, physiological and metabolic responses of the human body to exercise testing and training in healthy individuals and in those with metabolic, cardiovascular and/or pulmonary disease. The successful student will gain an understanding of the processes involved in prescribing safe and effective therapeutic exercise in healthy individuals as well as patients with cardiovascular (hypertension, atherosclerosis), metabolic (diabetes, thyroid, obesity, osteoporosis), pulmonary (asthma, emphysema), and musculoskeletal diseases/disorders. An overview of environmental and legal considerations in the prescriptive process will also be discussed. Prerequisites: ES 2010 and ES 3450 or equivalent, and senior standing. [Dual-listed with ES 5660.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

HEALTH PROMOTION (HP)

HP 1105. Health and Fitness (2).F;S.

GEN ED: Wellness Literacy

Emphasis on health and fitness trends in America, fitness and health testing concepts, exercise prescription, nutrition principles, prevention and treatment of chronic diseases such as heart disease, obesity, cancer, diabetes mellitus, and osteoporosis, the relationship between health habits and aging and psychological health, stress management, and precautions in exercise. Each student will have their health and physical fitness status tested, including results on personal cardiorespiratory, body composition, and musculoskeletal fitness status, and personal diet, heart disease, health age, and stress profiles. (CORE: PHYSICAL ACTIVITY/WELLNESS)

HP 2100. Health Program Planning and Evaluation I (3).F.

GEN ED: Junior Writing in the Discipline (WID)

Provides an in-depth overview of health program planning and evaluation for all health promotion settings - community, schools, clinical, and worksite. Specifically, students will study how to assess individual and community needs for health promotion, plan and implement effective health promotion programs, evaluate the effectiveness of health promotion programs, and coordinate the provision of health promotion services. Prerequisite: ENG 2001 or its equivalent. (WRITING)

HP 2200. Lifestyle Disease and Risk Reduction (3).F;S.

A review of the major lifestyle diseases (heart disease, cancer, diabetes mellitus, HIV infection, hypertension, etc.) and appropriate screening tests and interventions to reduce risk. Emphasis will be placed on the study and interpretation of the U.S. Preventive Services Task Force guide for clinical preventive services. (WRITING)

HP 2500. Independent Study (1-4).F;S.

HP 3000. Fitness in Health Promotion (3).F;S.

In this course, the emphasis will be placed on health and fitness trends in America, fitness and health testing concepts, exercise prescription, nutrition principles, and prevention and treatment of chronic diseases such as heart disease, obesity, cancer, diabetes mellitus, and osteoporosis. Focus is also placed on psychological health, stress management, precautions in exercise, and the relationship between healthy habits and aging. Students will examine their individual health and physical fitness status, including cardiorespiratory fitness, body composition, musculoskeletal fitness, personal diet, heart disease risk, health age, and stress profiles.

HP 3100. Emergency Care and CPR (3).F;S.

The course content and activities should prepare students to make appropriate decisions about the care given to victims of injury or sudden illness. Two American Red Cross certificates may be earned: (1) Emergency Response and (2) CPR for the Professional Rescuer. (Same as HED 3100.)

HP 3130. Environmental Health (3).S.

Study of the application of various principles of environmental sciences and ecology as they relate to the prevention and control of

disease, over-population, pollution of water, air, land, solid waste and noise. The interdependence of man, the environment, and disease will be stressed.

HP 3200. Health Risk Appraisal (3).F;S.

A practical review of major computer software programs and health risk appraisal methods for assessment of stress, health age, dietary quality, and physical fitness. Students will practice over 10 computer software programs during laboratory time, and should learn how to measure nutritional status, psychological mood state, and health risk. In addition, students will have the opportunity to learn anthropometry and counseling techniques. Lecture two hours, laboratory two hours. (COMPUTER)

HP 3500. Independent Study (1–4).F;S.

HP 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

HP 3530–3549. Selected Topics (1–4). On Demand.

Advanced study in selected current health topics. Topics will be chosen on the basis of their impact on the health status of society and on their relevance to students. May be repeated for a maximum of nine (9) hours with no specific topic being taken more than once.

HP 3700. Health Behavior Change (3).S.

Focuses on the development, implementation, and improvement of interventions and programs targeted at health behaviors. Research and theoretical issues are discussed on a broad range of behaviors- from diet and exercise patterns to safety behaviors. Diverse theoretical perspectives on health behavior are discussed. The personal, family, social, institutional, and cultural determinants of health behavior are considered.

HP 4100. Biostatistics (3).F;S.

A study of computational techniques, theoretical frameworks and methodology used in the application, measurement, interpretation and evaluation of statistics in the health sciences. Students will utilize statistical software to apply theoretical principles and to further their understanding of data within the health promotion field.

HP 4200. Principles of Epidemiology (3).F;S.

An introduction to epidemiology, defined as the study of the distribution and determinants of diseases and injuries in human populations. Emphasis will be placed on descriptive epidemiology, observational studies, and therapeutic trials of both infectious and chronic diseases. Prerequisite: HP 4100. (WRITING)

HP 4300. Smoking Cessation/Alcohol Treatment Programs (3).F;S.

An examination of the health risks and social problems associated with tobacco usage and alcohol consumption in the U.S. The first part of the course concerns itself with the acute and chronic effects of alcohol consumption and treatment programs for alcoholism; the second part of the course examines the biomedical effects of tobacco usage (especially cigarette smoking), and programs for smoking cessation. The course also uses the substances of tobacco and alcohol as vehicles for discussion of theoretical models of addiction.

HP 4400. Weight Management (3).S.

This course examines current research on the theories, health risks, and treatment of obesity. Topics include body composition assessment, dietary guidelines for Americans, role of exercise in weight management, treatment approaches, theories on health behavior change, and screening, assessment, referral resources, and legal constraints and liabilities related to practice. The course focuses on the development of skills necessary to critically review current weight loss claims/programs. Attention will also be devoted to eating disorders and non-diet approach to health and fitness. Prerequisite: NUT 2202 (Nutrition and Health).

HP 4701. Seminar in Health Promotion (3).F;S.

A critical examination of nutritional, exercise, and health promotion products, information, and quackery. Current knowledge in nutrition, health, exercise physiology, biology, and biochemistry is used to analyze the products, information, and claims for legitimacy. Prerequisite: HP 3200.

HP 4800. Health Promotion Interventions (3).F;S.

This course is designed to provide in-depth understanding of the structure and function of our current health care system and the role of health promotion in addressing our nation's health. Management and organizational issues related to health promotion/education programs will be included. This course also addresses acquisition of skills in the following areas: grant writing, effective presentation, health education curricula development, community organizing and community building, and preparing students for their internship experiences. Prerequisites: HP 2100 and senior status or permission of the instructor.

HP 4900. Internship (3–12).F;S.

GEN ED: Capstone Experience

Students are placed in a variety of health related agencies such as health departments, community action agencies, community mental health centers, educational institutions, wellness programs, hospitals, industrial/business settings, etc. for part or all of a semester or summer, under the direction of the health internship coordinator. The student surveys agency functions, completes a project and writes a final paper under the supervision of a health educator or health related person. Prerequisite: senior standing. Graded on an S/U basis.

PHYSICAL EDUCATION (PE)

PHYSICAL EDUCATION BASIC INSTRUCTION PROGRAM (PE BIP) - GENERAL EDUCATION WELLNESS

As part of general education, all students are required to elect two semester hours of wellness literacy courses. The PE BIP offers a wide variety of activity-based courses that meet general education wellness guidelines, thus providing opportunities for students to assess personal and family health history, develop a plan for personal wellness to address specific health concerns, demonstrate appropriate skills to maintain and/or improve one's condition of wellness, identify potential barriers to wellness and develop a plan to overcome those barriers, and identify social and cultural influences that impact health on both a personal and global scale.

PE BIP courses are based on current guidelines for appropriate practice in college/university physical activity instruction programs outlined by the College and University Physical Education Council (CUPEC). Courses reflect the following premises: education as the central mission; emphasis on motor skill acquisition and health-related physical activity; curriculum and instructional practices that reflect sensitivity to individual students and societal needs; and the promotion of values consistent with safe, lifelong participation in health enhancing physical activity. The PE BIP is dedicated to enhancing student wellness through activity-based learning experiences and is committed to assisting students to become physically educated individuals. A physically educated individual has learned the skills necessary to perform a variety of physical activities, participates regularly in physical activity, is physically fit, knows the implications of and the benefits from involvement in physical activities, and values physical activity and its contributions to a healthful lifestyle.

PE BIP courses are grouped into the following content-related categories: *Aquatics (1700-1719)*, *Outdoor & Adventure (1720-1739)*, *Personal Fitness (1740-1769)*, *Self Defense - Combatives (1770-1789)*, *Sport - Invasion (1790-1809)*, *Sport - Net/Wall (1810-1829)*, *Sport - Striking/Fielding (1830-1849)*, *Sport - Target (1850-1869)*, and *Winter Sports (1870-1889)*. PE BIP courses are graded on a standard A-F letter grade basis. Courses are open to all students and need not be taken in any particular sequence; however, students should consult with instructors when determining enrollment in beginning, intermediate, or advanced courses. Physical Education majors must take PE 3008 to fulfill the GEN ED: Wellness Literacy requirement.

* = Courses that lead to or prepare students for certification(s).

Physical Education Basic Instruction Program (PE BIP) (1530-1545)

GEN ED: Wellness Literacy

PE 1530-1545. Selected Topics (1).On Demand. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Aquatics (1700-1719)

GEN ED: Wellness Literacy

PE 1700. Swimming for Nonswimmers (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1702. Beginning Swimming (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1703. Intermediate Swimming (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1704. Advanced Swimming (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1705. Open Water SCUBA Diving (1).F;S. (Fee charged) (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1706. Advanced Open Water SCUBA Diving (1).F;S. (Fee charged) (GEN ED: Wellness Literacy; CORE: PHY ACT/WELLNESS)

PE 1709. Water Aerobics (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1712. Swimming for Fitness (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1718. *Lifeguarding and Water Safety (3).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Outdoor & Adventure (1720-1739)

GEN ED: Wellness Literacy

PE 1721. Backpacking/Orienteering (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1724. Canoeing (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1727. Introduction to Fly Fishing (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1730. Rock Wall Climbing (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1733. Mountain Biking (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

PE 1734. Intermediate Mountain Biking (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Personal Fitness (1740-1769)

GEN ED: Wellness Literacy

- PE 1740. Physical Education for the Disabled** (1).On Demand. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1742. Aerobics** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1743. Intermediate Aerobics** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1745. Jogging/Conditioning** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1748. Beginning Tai Chi** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1751. Yoga** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1752. Intermediate Yoga** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1754. Weight Training** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1755. Intermediate Weight Training** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1759. Indoor Cycling** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1768. *Group Fitness Instructor Training** (3).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1769. *Personal Trainer Training** (3).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Self Defense - Combatives (1770-1789)

GEN ED: Wellness Literacy

- PE 1770. Self-Defense** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1775. Fencing** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Sport - Invasion (1790-1809)

GEN ED: Wellness Literacy

- PE 1790. Basketball** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1791. Intermediate Basketball** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1793. Field Hockey** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1802. Soccer** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Sport - Net/Wall (1810-1829)

GEN ED: Wellness Literacy

- PE 1810. Badminton** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1819. Racquetball** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1820. Intermediate Racquetball** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1822. Tennis** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1823. Intermediate Tennis** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1825. Volleyball** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Sport - Striking/Fielding (1830-1849)

GEN ED: Wellness Literacy

- PE 1840. Softball** (1).F;S. (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)

Sport - Target (1850-1869)

Winter Sports (1870-1889)

GEN ED: Wellness Literacy

- PE 1873. Alpine Skiing** (1).S. (Fee charged) (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1874. Intermediate Alpine Skiing** (1).S.(Fee charged) (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1876. Alpine Snowboarding** (1).S. (Fee charged) (GEN ED: Wellness Literacy; CORE: PHYSICAL ACTIVITY/WELLNESS)
- PE 1877. Intermediate Alpine Snowboarding** (1).S. (Fee charged) (GEN ED: Wellness Literacy; CORE: PHY ACT/WELLNESS)

PHYSICAL EDUCATION SERVICE COURSES

- PE 1111. Adapted Aquatics** (1).F;S.

The purpose of this course is to familiarize students with the procedures for providing services for remediation of physical and mental needs of clients, using water as the source of therapeutic remediation. Theories and concepts will be presented and applied as they pertain to using water to address various needs of persons with disabilities.

PHYSICAL EDUCATION TEACHER EDUCATION CURRICULUM

The physical education teacher education curriculum consists of 46 semester hours. The curriculum operates in a coordinated sequence and utilizes a cohort grouping system. The structure allows for a vertical model of integration where salient knowledge and skills are initially introduced and systematically developed across the curriculum through a variety of highly connected classroom, laboratory, and field-based teaching-learning experiences. Each successive teaching-learning experience across the curriculum requires the integration of increasingly sophisticated content knowledge and pedagogy. The configuration of the program promotes the development of physical education teachers who are prepared to advance the psychomotor, cognitive and affective learning of school-aged children.

PE 1546–1549. Selected Topics (1). On Demand.

PE 1550. Foundations of Teaching and Learning in Physical Education (3).F;S.

PE 1550 is a foundational course that focuses teacher candidates on essential teaching-learning issues integral to effective, professional practice in physical education. Example topics include the history of physical education; national and state standards; appropriate teaching practices; instructional effectiveness; curricular models; relevant philosophies, problems and issues affecting the profession; diversity; and technology in the classroom. Students will engage in a reflective instructional process that combines the deliberate acts of planning, instruction, and assessment. A minimum grade of "C" (2.0) is required. Corequisites: PE 2002 and ES 2001. (WRITING; SPEAKING)

PE 2002. Motor Skill Learning (3).F;S.

This course is a lecture/discussion course that will focus on the basic principles in the learning and control of motor skills and recent theories of how movements are acquired and performed. A minimum grade of "C" (2.0) is required. Corequisites: PE 1550 and ES 2001.

PE 2015. Curriculum and Administration in Sport Pedagogy (3).F;S.

Curriculum planning, curriculum theories and models and administration application. Curriculum development will be emphasized including unit and lesson plans. Administration will cover budgeting, facilities, liability and public relations. A team approach with lecture and practical experiences. Prerequisites: PE 1550, PE 2002 and ES 2001 with a grade of "C" or higher in each.

PE 2115. Instructional Systems (3).F;S.

Prospective physical education teachers should develop competencies in the design, implementation, and assessment of instructional systems and in the effective employment of interactive pedagogical skills in physical education settings. Prerequisites: PE 1550, PE 2002 and ES 2001 with a grade of "C" or higher in each.

PE 2116. Measurement and Evaluation in Physical Education (3).F;S.

A theory and methods course in the meaning and application of measurement, tests, elementary statistical procedures and evaluation in physical education. Prerequisites: PE 1550, PE 2002 and ES 2001 with a grade of "C" or higher in each. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

PE 2500. Independent Study (1–4).F;S.

PE 3002. Motor Development (3).F;S.

Fundamental motor skills from childhood to old age with emphasis on the motor skill stages of development. Lecture three hours. Prerequisites: PE 1550, PE 2002 and ES 2001 with a grade of "C" or higher in each.

PE 3003. Planning, Implementation, and Assessment of the Elementary Curriculum (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course is designed to prepare prospective physical education teachers to instruct elementary school-aged children. Students should learn to plan, implement, and assess developmentally appropriate pedagogical practices in physical education related to the cultivation of physically educated school-aged children. The application of pedagogical concepts will take place in clinical or field-based laboratory experiences. Prerequisites: PE 2015, PE 2115, PE 2116, PE 3002 and ES 2015 with a grade of "C" or higher in each; and ENG 2001 or its equivalent. (WRITING)

PE 3008. Planning, Implementation, and Assessment of Health Related Fitness (3).F;S.

GEN ED: Wellness Literacy

Prospective physical education teachers will participate as pupils in a Health Related Fitness instructional unit. There will be an emphasis on curriculum development as well as design, implementation and analysis of an instructional unit. The application of pedagogical concepts will take place in clinical or field-based laboratory experiences. Prerequisites: PE 2015, PE 2115, PE 2116, PE 3002 and ES 2015 with a grade of "C" or higher in each. (CORE: PHY ACT/WELLNESS/For Physical Education Teacher Education Majors Only)

PE 3012. Survey of Sports and Activities (3).F;S.

This is a survey course designed to provide general content and pedagogical knowledge for a variety of traditional, alternative, and non-traditional sports and activities. Accordingly, it is expected that prospective physical education teachers enrolled in this course will develop the knowledge, skills, and dispositions required to effectively research, instruct, and assess a wide variety of sports and activities. Prospective physical education teachers enrolled in this course will develop content related materials that will assist in the future planning, implementation, and assessment of such sports and activities in the educational setting. Prerequisites: PE 2015, PE 2115, PE 2116, PE 3002 and ES 2015 with a grade of "C" or higher in each.

PE 3032. Planning, Implementation, and Assessment of Sports and Activities (3).F;S.

This course will focus on the planning, implementation, and assessment of model-based instruction for teaching sports and activities to school-aged learners. Prospective physical education teachers enrolled in this course will design comprehensive and coherent units of instruction utilizing a combination of instructional models including but not limited to sport education, peer teaching, cooperative learning, direct instruction, and tactical games. Instructional model design will require students to simultaneously account for learning theory, long-term learning goals, instructional context, content, classroom management, teaching strategies, and assessment of student learning. Prerequisites: PE 2015, PE 2115, PE 2116, PE 3002 and ES 2015 with a grade of "C" or higher in each.

PE 3500. Independent Study (1–4).F;S.

PE 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

PE 3530–3549. Selected Topics (1–4). On Demand.

PHYSICAL EDUCATION COURSE FOR THE K-6 ELEMENTARY EDUCATION MAJOR (PE 3556)

PE 3556. How Children Move: Implications for Elementary Education (2).F;S.

An overview of movement experiences in games and dance focusing on the teaching of children K-8. Lecture one hour, laboratory two hours.

PE 3580. Apprenticeship (1).F;S.

A practical experience for the physical education major in the teaching of physical education activities under direct supervision. REQUIRED PRIOR TO STUDENT TEACHING. The apprenticeship should be done in an activity in which the student has completed the corresponding course in the physical education major activity cores or a corresponding skill and technique course. Pre/corequisite: ES 2001. Laboratory two hours with periodic seminars. Graded on an S/U basis. May be repeated.

PE 4000. Adapted Physical Education and Recreation (3).F;S.

A survey of abnormalities and atypical cases; identification, with preventive, corrective and rehabilitative techniques and activities. Lecture two hours, laboratory three hours. Prerequisites: PE 3003, PE 3008, PE 3012 and PE 3032 with a grade of "C" or higher in each, or by permission of the instructor.

PE 4002. Psychological Aspects of Sport (3).F;S.

A view of the influence of social forces and psychological factors affecting the individual's performance in sport. Prerequisites: PE 3003, PE 3008, PE 3012 and PE 3032 with a grade of "C" or higher in each, or by permission of the instructor.

PE 4014. Planning, Implementation, and Assessment Practicum (3).F;S.

Prospective physical education teachers plan for, implement, and assess an instructional unit. Students enrolled in this course will complete a practicum experience in a field setting under the supervision of the PE 4014 instructor and the Core Curriculum Activity instructors. Prerequisites: PE 3003, PE 3008, PE 3012 and PE 3032 with a grade of "C" or higher in each.

PE 4060. Developing a Physical Education Curriculum (3). Offered every third semester.

A study of the significance of physical education and its role in a school curriculum. Lecture three hours. Prerequisite: PE 3003.

PE 4453. Program Development in Adapted Physical Activity (3).F;S.

The purpose of this course is to introduce students to theories and concepts related to developing a physical activity program for persons with disabilities. Students are provided with practical opportunities to apply theories and concepts. Prerequisites: PE 4000 or RM 3210, PE 3002, ES 2001 or permission of the instructor.

PE 4553. Women and Sport (3).F;S.

A study and analysis of sport from a feminist prospective and its impact on women's participation in sport.

PE 4580. Workshop (2). On Demand.

RECREATION MANAGEMENT (RM)

RM 2100. Leisure in Society (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Individual and Society")

This course focuses on relationships between the individual and society in the context of leisure. It examines both the biological and cognitive foundations of individual leisure behavior and the cultural forces that influence personal experience. Emphasis is on how an individual's leisure simultaneously shapes and is shaped by diverse group, organizational and social contexts. (WRITING; CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

RM 2110. Introduction to Recreation and Leisure (3).F;S.

This course consists of an introduction to the concepts of recreation and leisure and a survey of the recreation profession. The course also includes a history of the leisure and recreation movement, and development of a personal philosophy related to discretionary time and related choices. A minimum grade of "C" (2.0) is required.

RM 2120. Leadership and Group Dynamics in Recreation (3).F;S.

This course focuses on the study and practice of leadership styles and techniques applied to recreation settings and leisure management situations. Emphasis will be placed on group dynamics as they relate to participants and managers of leisure activities. Prerequisite: RM 2110 or approval of the instructor.

RM 2130. Principles of Commercial Recreation and Tourism (3).S.

An introduction to the commercial recreation and tourism industry. Topics covered in this course include: origins of commercial recreation and tourism, the amusement industry, event management, travel and tourism, and allied industries. Students will complete an in-depth analysis of one industry within commercial recreation/tourism. Prerequisite: RM 2110 or approval of the instructor. (WRITING)

RM 2140. Natural Resources: Becoming an Informed Citizen (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Regions in Global Context")

Through the lens of outdoor recreation, this course will examine natural resources to help shape a more informed citizen. Students will examine dealings with natural resources by looking at how humans value and define ownership of them, as well as look at natural and outdoor recreation resource management practices and why they can be controversial or problematic. In addition, this course will look at how citizens become involved in the politics of natural and outdoor recreation resources.

RM 2210. Recreation Resource Management (3).F;S.

This course introduces students to the complexities of natural resource management. Elements of the course at the micro level include landscape and trails management. At the macro level, the focus is on roles of government agencies and non-profit organizations in balancing the supply and demand for outdoor recreation while maintaining environmental quality. Prerequisite: RM 2110 or approval of the instructor.

RM 2220. Principles of Outdoor Experiential Education (3).F.

Principles of outdoor experiential education is a survey of experiential education as it takes place in outdoor settings. The emphasis is on programs that either take place outside of the classroom, outside the purview of the formal public schools, or those conducted by natural resource agencies as part of their information and education imperatives. Students prepare to design and implement experiential education programs at appropriate outdoor sites for various agencies, organizations, and audiences. Prerequisite: RM 2110 or approval of the instructor.

RM 2310. Administration of Leisure Services I (3).F;S.

This is a lecture and seminar course that includes elements of organizational theory and structure, policy development by boards and commissions, personnel policies and manuals, and budgeting and revenue generation in the context of leisure services delivery systems. Prerequisite: RM 2110 or approval of the instructor. (WRITING)

RM 2400. Leisure and Lifespan (3).S.

Conceptual foundations for understanding the role of leisure in the quality of life. Social, historical, psychological, cultural, economic and political foundations of play, leisure and recreation are explored. Dominant concepts, theories, and research associated with the study of recreation and leisure across the lifespan. (CROSS-DISCIPLINARY) (CORE: SOCIAL SCIENCES)

RM 2410. Recreation Program Planning (3).F;S.

This course focuses on the planning of recreation and leisure activities through the use of human and natural resources in public, private, and commercial recreation programs. Principles and approaches to programming will be presented, providing a philosophical and practical basis for preparing a wide variety of leisure programs and activities. Prerequisite: RM 2110 or approval of the instructor.

RM 2500. Independent Study (1–4).F;S.

RM 3140. Camp Management/Conference Center Management (3).S.

This course focuses on the administration of organized camping. The application of management principles to camp/conference centers and their unique program needs will be emphasized. Prerequisite: RM 2310 or approval of the instructor.

RM 3151. Climbing Site Facilitation (2).F;S.

This course is designed to train students in climbing site facilitation and includes elements of risk management, logistics, instruction, and site management. Lecture and laboratories. Prerequisite: RM 2220 or approval of the instructor.

RM 3152. Ropes Course Facilitation (2).F;S.

This course is designed to introduce students to the basic skills and equipment needed to facilitate a ropes course. It includes the history and philosophy of ropes courses; construction; maintenance and inspection techniques; gear and knots; and framing and debriefing skills. Prerequisite: RM 2220 or approval of the instructor.

RM 3153. Canoeing and White Water Rafting (2). On Demand.

This course provides an opportunity for skill development in beginning and intermediate techniques. Safety procedures will be emphasized in addition to equipment and resources. Lecture and laboratories. Prerequisite: RM 2110 or approval of the instructor.

RM 3154. Outdoor Experiential Education Laboratory (3).S.

This course focuses on the elements of planning and participating in an outdoor expedition. Trip planning, logistics, menu preparation, permits, equipment, risk management, navigation, expedition behavior and evaluation will be emphasized. Lecture and laboratories. Prerequisite: RM 2220 (with a minimum grade of "C") or the approval of the instructor. Prerequisite or corequisite: RM 2410.

RM 3155. Wilderness First Responder (3).F;S.

This course provides outdoor leaders with the knowledge and skills to deal with emergencies in remote settings. The course includes personal/group safety and hygiene, backcountry survival, anatomy and physiology, pathophysiology, patient assessment, documentation, trauma, medical and environmental emergencies, long-term care, teamwork, organizing/improvising rescues, working with EMS and rescue squads in wilderness, decision-making, leadership, judgment, and prevention. Prerequisite: permission of the instructor.

RM 3156. Wilderness and Remote First Aid Instructor (3). On Demand.

This course provides students with the knowledge and skills to be able to teach others how to deal with emergencies in remote settings. This emergency response training includes patient assessment, evacuation procedures, musculoskeletal and soft tissue injuries, splinting, and how to treat people with injuries due to altitude-sickness, hypothermia, excessive heat, allergies, burns, wounds and infection.

RM 3157. Environmental Education Skills (3). On Demand.

This course is designed to introduce students to the basic skills needed to facilitate environmental education programs and facilitate outdoor programs in ways that have as little environmental impact as possible. Students will become Leave-No-Trace (LNT) trainers and will begin the certification process for becoming North Carolina Environmental Educators.

RM 3161. Swift Water Rescue (1).S.

This course teaches recognition and avoidance of common river hazards, execution of self-rescue techniques, and rescue techniques for paddlers in distress. Emphasis is placed both on personal safety and on simple, commonly used skills. Techniques for dealing with hazards that carry greater risks for both victim and rescuer, such as strainers, rescue vest applications, entrapments, and pins, also are practiced. Scenarios will provide an opportunity for participants to practice their skills both individually and within a team/group context. Prerequisite: approval of the instructor.

RM 3210. Inclusive Recreation (3).F;S.

This course consists of a study of and practical application of principles underlying the provision of recreation services to populations limited in their access to normal recreation programs. The course will focus on individual populations and the respective barriers to participation, the process of program planning and resource development that alter these limitations, and the practical experience of application of a particular plan. Attention will also be devoted to a study of successful community and institutional programs. Prerequisite: RM 2110 or approval of the instructor.

RM 3220. Planning and Design of Leisure Facilities (3).F.

This course consists of an integration of site, master, and systems planning with practical design applications. Elements of data collection, site surveying, environmental impact analysis, citizen participation, grantmanship, analysis and synthesis, drafting techniques, and plan reproduction are included in the course. Prerequisites: RM 2110 and RM 2210, or approval of the instructor.

RM 3221. Aquatic Facility Management (3).F;S.

The purpose of this course is to train each student in the most advanced knowledge and techniques for swimming pool operations and management of lifeguard staff. The student will be able to professionally oversee aquatic facilities at parks and recreational centers. Upon successful completion of this course, the student will receive her/his National Swimming Pool Foundation Certified Pool Operator and American Red Cross Lifeguard Management certifications.

RM 3222. Lifeguarding Instructor (3).S.

A course designed to teach the skills and knowledge necessary to teach Lifeguarding, Waterfront Lifeguarding and Shallow Water Attendant, Lifeguard Management, CPR/AED for the Professional Rescuer, Adminstrating Emergency Oxygen, Bloodborne Pathogens Training: Preventing Disease Transmission, and Basic Water Rescue courses.

RM 3223. Aquatics/Water Safety Instructor (3).F;S.

The purpose of this certification course is to train students to teach courses and presentations in the American Red Cross Swimming and Water Safety program by developing their understanding of how to use the course materials, how to conduct swim training sessions and how to evaluate swim participant's progress. Each student must demonstrate proficiency in the basic swim strokes as a prerequisite to the class.

RM 3230. Commercial Recreation Management (3). On Demand.

This course examines the private-commercial recreation sector. Key concepts include: economic impact studies; feasibility studies; promotion and marketing strategies for commercial recreation business; and resort management techniques. Prerequisites: RM 2110, RM 2130, and RM 2310, or approval of the instructor.

RM 3235. Introduction to Sport Management (3).S.

This course provides an introduction to the basic competencies, skills, methods, and techniques necessary to deliver recreational sport activities within a variety of settings, agencies, and organizations.

RM 3236. Sports Officiating I (3).F.

A study of the rules and rule interpretations of volleyball, football and soccer with emphasis on the proper techniques of officiating. Lecture two hours, laboratory two hours (a minimum of 32 hours of field experience is required per semester without pay and with supervision).

RM 3237. Sports Officiating II (3).S.

A study of the rules and rule interpretations of basketball, softball, baseball, and track and field with emphasis on the proper techniques of officiating. Lecture two hours, laboratory two hours (a minimum of 32 hours of field experience is required per semester without pay and with supervision).

RM 3241. Travel and Tourism (3).F.

This course provides an in-depth study of tourism and recreational travel. Topics include the origin, present characteristics and various dimensions of travel and tourism; the importance of tourism to local and global economics; social, psychological and environmental implications; and international tour management. Prerequisite: RM 2130 or approval of the instructor. (MULTI-CULTURAL; CROSS-DISCIPLINARY)

RM 3242. Tourism in Costa Rica (3). On Demand.

This study tour focuses on the recreation and tourism resources and services in Costa Rica. Using a comparative government, economic and recreation/tourism industry approach, the course will expose students to the problems related to recreation resource management and ecotourism/sustainable tourism development. The changing cultural institutions and specific governmental agencies involved in this industry's growth in Costa Rica will be examined. This study tour will also investigate recreation service provisions for native Costa Ricans as students visit and experience a range of recreation offerings themselves. (MULTI-CULTURAL)

RM 3243. The Cruise Line Industry in a Cultural Context (3).SS.

The purpose of this course is to provide each student with the basic knowledge necessary to work in the cruise line industry. This is a field course designed to acquaint students with the process of operating a cruise ship with multiple international destinations. The course will take place on a Voyager-class ship of the Royal Caribbean Cruise Line, one of the largest ships in the industry. Voyager-class ships offer more services than most cruise ships and Royal Caribbean is considered to be one of the market leaders in terms of

service quality. Topics to be covered include: who cruises and why; the anatomy of a cruise ship; the cruise experience; who's who in cruising; the pre-, and post-, and off-ship cruise experience; the geography of cruising; profiling the lines; selling cruises; and cruise marketing, groups and incentives.

RM 3244. Coastal Tourism: A Field-Based Understanding (3).SS.

This is a field course designed to acquaint students firsthand with the many aspects of the coastal tourism product along the southern coastline of the United States. Students in this class will visit a number of sites and settings that play a role in tourism development and delivery.

RM 3315. Career Development in Leisure Services and Recreation (1).F.

A survey of career opportunities in leisure services and recreation. Students will explore the job market and develop job search skills and abilities. Participants will seek an appropriate internship placement to enhance their professional growth in the field. (This course is a prerequisite for RM 4900 and must be taken the FALL semester preceding the internship.)

RM 3500. Independent Study (1–4).F;S.

RM 3520. Instructional Assistance (1).F;S.

This course consists of a supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

RM 3530–3549. Selected Topics (1–4). On Demand.

RM 3561. Leisure Services Promotions (3).F;S.

Development of the ability to promote and coordinate public, not-for-profit, private and commercial recreation programs, services, resources and activities. Development of the specialized promotions knowledge and skills necessary for managing leisure service businesses and agencies. Covers working with print and electronic media. Special emphasis on promotions analysis and services promotion. Prerequisites: RM 2310, RM 2410 or approval of the instructor.

RM 3610. Administration of Leisure Services II (3).S.

GEN ED: Junior Writing in the Discipline (WID)

This course examines contemporary managerial concepts with application to the public, not-for-profit, and commercial sectors of the leisure service industry. This course focuses on the development of skills necessary to facilitate the achievement of organizational goals and objectives. Prerequisites: RM 2110, RM 2310, and ENG 2001 or its equivalent. (WRITING)

RM 3630. Interpretive Methods (3).S.

This course consists of an overview of the role of interpretation in educating the public, contributing to the leisure experience, and as a component of natural and cultural resource management. Applications of communications, educational, and media skills will be demonstrated through a series of lectures, field trips, and student presentations focused upon the various professional applications of interpretative methods. Prerequisite: RM 2110 or approval of the instructor.

RM 3900. Recreation Practicum (3).SS.

This course is a guided, practical, direct leadership experience in a selected, organized recreational setting. This course is required for the minor in recreation management. RM 3900 is not required of majors in recreation management, but may be taken for elective credit. Graded on an S/U basis. Prerequisites: completion of a minimum of 9 semester hours of RM credits that include: RM 2110 (with a minimum grade of "C"), RM 2410, and 3 additional semester hours of RM courses, or approval of the instructor.

RM 4110. Evaluation in Recreation and Leisure Service Management (3).F;S.

This course examines the methods, techniques, and application of evaluation in a variety of functions normally found in recreation and leisure service management including clientele, programs, personnel, facilities, organization, administration, needs assessment and economic impact estimation. Familiarization with and use of applicable computer software programs will be emphasized. Prerequisites: RM 2110, RM 2310, RM 2410, or approval of the instructor. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

RM 4140. Outdoor Leadership (3).F.

This course consists of a dual focus on field leadership of outdoor pursuits and administration of outdoor programs. Topics will include risk management, leadership styles, outdoor leadership competencies, experiential education and current issues central to effective outdoor leadership. Prerequisites: RM 2110, RM 2220, RM 2410, RM 3154, and approval of the instructor.

RM 4141. Outdoor Recreation Policy Development (2). On Demand.

This is a field course in Washington, D.C. designed to acquaint the student with the process of developing outdoor recreation and natural resource policies at the federal level. Congressional offices, federal natural resource management agencies, and non-profit conservation agencies will be visited and analyzed with respect to policy formulation, lobbying and the legislative process.

RM 4210. Senior Seminar (2).F;S.

GEN ED: Capstone Experience

This course focuses on planning for continuing individual, professional activity and growth in the leisure services delivery field. It includes a series of discussions, conferences and role playing experiences related to the various aspects of organized recreation as a career. A review of internships, employment opportunities, ethical conduct and other related topics will be included. Prerequisites: RM 3315, or approval of the instructor, and senior status. (SPEAKING)

RM 4450. Seminar in Tourism Development (3).S.

This course provides an in-depth analysis of tourism development. The various forms of tourism development that are utilized to meet the needs of tourists and host communities are analyzed through case studies and class discussion. Topics covered in this class include: sustainable development, eco-tourism, community tourism development, and special interest tourism. Prerequisites: RM 2110, RM 2130, RM 3241 or approval of the instructor.

RM 4560. Leisure and Aging (3). On Demand.

This course focuses on the leisure needs and characteristics of the senior citizen. Programs and resources designed to service the leisure needs of this population will be examined. Focus will be on program planning and development to meet problems inherent in leisure delivery systems for seniors. [Dual-listed with RM 5560.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

RM 4600. Ski Area Management Seminar (3). On Demand.

This course focuses on the planning and management of alpine ski areas. Frequent field trips to ski areas will be required. Prerequisite: beginning skiing or equivalent.

RM 4900. Internship (1-12).SS.

A guided, practical, direct leadership experience at a supervisory level for ten continuous weeks at an appropriate organization. A minimum of eight hours internship credit is required of majors. Graded on an S/U basis. Prerequisites: a) a minimum of 100 documented hours of professional experience in the recreation, park or tourism industry; b) completion of a minimum of 24 semester hours of RM credits that include: RM 2110 (with a minimum grade of "C"), RM 2310, RM 2410, and RM 3315 (with a minimum grade of "C"), or approval of the instructor; and, c) a minimum overall 2.0 cumulative GPA.

Department of Nursing (NUR)

Linda S. Johanson, Interim Chair

Teresa D. Carnevale
Sharon A. Cumbie

Cynthia G. Davis
Wendy E. Miller

Phoebe A. Pollitt
Kimberly S. Priode

Mission

The mission of the BSN program at Appalachian State University is to provide a program in which the faculty is committed to excellence in teaching, scholarship, and service for students in the Appalachian region (as well as those from other states and nations) and to promote their cultural, intellectual, and personal development. Students are provided an education built on the study of the arts, humanities, mathematics, natural and social sciences, and standards for professional nursing practice. Preparing graduates with a breadth and depth of professional nursing knowledge reflects a commitment to serve its community as this knowledge is disseminated through practice, research, and service.

Goals

The goals of the BSN program are to:

1. Provide a quality program based on a liberal education and professional nursing values, competencies, and knowledge
2. Facilitate the development and implementation of professional nursing roles in caring for individuals, families, groups, and communities from diverse geographical and cultural backgrounds through the application of knowledge, theory, and research from nursing as well as other related disciplines
3. Instill in students an appreciation for and commitment to lifelong learning, scholarship, and service in order to promote their personal growth, advance the profession of nursing, and meet the health needs of society
4. Prepare nurses who can practice as generalists in any health care setting
5. Provide a foundation for graduate nursing education

Program Outcomes

The following educational outcomes are based on the mission, goals, and philosophy of Appalachian State University's Department of Nursing. They will:

1. Provide holistic nursing care to individuals, families, groups, and communities across the lifespan based on professional nursing standards
2. Engage in evidence-based practice through the utilization of critical thinking skills and state-of-the-art knowledge for persons with varying health promotion, health maintenance, health restoration, and end-of-life care needs
3. Participate in formal and informal experiences that promote personal and professional growth and lifelong learning
4. Employ effective communication skills (listening, verbal, nonverbal, written, and electronic) with individuals, families, groups, and communities as well as members of the interprofessional health care team
5. Identify, access, evaluate, and disseminate health information resources for self, colleagues, individuals, families, groups, and communities
6. Demonstrate leadership skills in coordinating, collaborating, delegating, and supervising nursing care provided by others
7. Empower persons to function at their highest level of ability through mutual goal-setting, advocacy, and education
8. Fulfill the roles of provider of care; designer, coordinator, and manager of care; and member of a profession appropriately and competently
9. Exhibit a patient-centered caring approach that reflects the professional values of altruism, autonomy, human dignity, integrity, and social justice
10. Adhere to economic, ethical, legal, and professional nursing standards in nursing practice

Bachelor of Science in Nursing (RN to BSN) (563A/51.3801)

[For students who have already earned an associate degree in nursing, AAS (Associate of Applied Science) or a Diploma in Nursing, and have passed the national licensing exam (NCLEX) for registered nurses (RN).]

The Appalachian State University Bachelor of Science in Nursing degree (RN to BSN program) is accredited by the Commission on Collegiate Nursing Education (CCNE).

The RN to BSN program is designed to provide a registered nurse (RN) the opportunity to earn a Bachelor of Science degree in Nursing (BSN). This program recognizes prior learning and clinical competencies as part of the undergraduate curriculum. The undergraduate program reflects a transition to professional nursing practice.

Admission Criteria

Criteria for admission to the RN to BSN program include: submission of an application; admission to Appalachian State University by meeting the general requirements for admission as a transfer student; provision of evidence of an earned associate degree in nursing,

AAS (Associate of Applied Science) or a Diploma in Nursing from an accredited institution; possession of a current unrestricted and unencumbered license to practice nursing in North Carolina and/or compact state; a minimum cumulative GPA of 2.5 on a 4.0 scale calculated over all college coursework; and completion of the majority of the required core and/or cognate courses with no more than six of those non-nursing courses remaining to be completed prior to admission.

The Bachelor of Science in Nursing degree (RN to BSN) (563A/51.3801)

The program of study is available at: www.programsofstudy.appstate.edu/nursing-rn-bsn-bsn-563a-2012-2013

Progression Policies

In order to matriculate through the RN to BSN program, the student must maintain a current unrestricted and unencumbered RN license to practice in North Carolina; achieve a grade of "C" or higher in each nursing course before proceeding to the next nursing course; maintain a cumulative GPA of 2.5 or higher and an overall GPA of 2.5 in nursing courses at the end of the junior year and every semester thereafter; maintain current CPR certification, annual TB screening, Hepatitis B vaccinations; and adhere to all policies of the University, the nursing program, and clinical agencies. Only one nursing course may be repeated (one time) during matriculation through the nursing curriculum. All non-nursing courses must be completed the semester prior to graduation.

Transfer Credit

All students who receive a baccalaureate degree granted by Appalachian State University are required to complete a minimum of 60 semester hours at a senior college or university. All nursing courses must be taken at Appalachian State University. The Comprehensive Articulation Agreement (CAA) with North Carolina community colleges and other relevant university policies will be followed in evaluating non-nursing credits from North Carolina community colleges.

Bachelor of Science in Nursing (BSN) (Pre-licensure Program) (809A/51.3801)

[This program is for students who have the educational goal of obtaining the Bachelor of Science in Nursing degree in order to be eligible to sit for the National Council Licensing Examination (NCLEX) to become a registered nurse (RN).]

The Appalachian State University Bachelor of Science in Nursing degree (Pre-licensure program) is accredited by the Commission on Collegiate Nursing Education (CCNE).

The Pre-licensure BSN program is designed to provide an undergraduate student the opportunity to earn a Bachelor of Science degree in Nursing (BSN), leading to licensure as a Registered Nurse.

Admission Criteria

Students must be admitted to the University and the College of Health Sciences prior to applying for admission to the Bachelor of Science (BSN) degree program. Students may declare a major upon completion of 30 semester hours, including credit for ENG 1000 and UCO 1200 or equivalent courses; however, students are not eligible to apply for admission to the upper division nursing major until 45 semester hours have been completed. The application deadline for admission is January 15. Acceptance into the Pre-licensure BSN program is based on the student's application, earned GPA, and academic performance on selected preliminary course work. Scores from standardized tests may also be considered when evaluating applicants.

For specific guidelines on admission requirements and to complete an application form, please refer to the Admissions portion of the Department of Nursing's website at www.nursing.appstate.edu/bsn-pre-licensure-application.

Acceptance to the University and the College of Health Sciences, completion of preliminary course work, GPA, and standardized test scores do not guarantee admission to the BSN program. Admission of students is a competitive process. Not all applicants who meet the requirements can be accommodated; therefore, applicants whose credentials present the best qualifications of those meeting requirements will be selected.

The Bachelor of Science in Nursing (BSN) Pre-licensure Program (809A/51.3801)

The program of study is available at: www.programsofstudy.appstate.edu/nursing-bsn-809a-2012-2013

Progression Policies

To progress through the BSN program, the student must achieve a grade of "C" or higher in each nursing (NUR) course before proceeding to the next nursing course; maintain a cumulative GPA of 2.5 or higher in nursing courses at the end of the junior year and each semester thereafter; maintain current CPR certification at the healthcare provider level; maintain annual tuberculosis screening; meet all current health and immunization requirements of the Department of Nursing; and adhere to all policies of the University, the Nursing Department, and the clinical agencies. Only one nursing course may be repeated (one time) for credit during progression through the nursing curriculum.

Non-progression in the nursing program also results when:

- A final course grade of "U" (Unsatisfactory) is received in a clinical course
- A student is denied clinical access by the clinical agency based upon review of a criminal background check or other screening outcomes such as the results of a urine drug screen
- A student refuses to comply with policies and procedures of ASU's Department of Nursing and/or the clinical agency
- A student engages in unsafe practice

A student who does not progress in the nursing program may apply for readmission only once. Readmission is a competitive process. It is not automatic. To be readmitted, students must be in full compliance with all program academic requirements at the time of readmission. A student who is dismissed for unsafe practice is not eligible to reapply. Refer to www.nursing.appstate.edu for information regarding what constitutes unsafe practice.

Transfer Credit

All students who receive a baccalaureate degree granted by Appalachian State University are required to complete a minimum of 60 semester hours at a senior college or university. All nursing courses must be taken at Appalachian State University. The Comprehensive Articulation Agreement (CAA) with North Carolina community colleges and other relevant university policies will be followed in evaluating non-nursing credits from North Carolina community colleges.

Courses of Instruction in Nursing (NUR)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

NURSING (NUR)

NUR 2002. Introduction to Professional Nursing (3).SS.

This course presents selected nursing concepts, theoretical principles and nursing skills needed to care for individuals and families across the life span. Laboratory simulation experiences are used to develop communication and technical skills prior to attending clinical. Emphasis is placed on the student's development as a safe and caring provider of care. Lecture 30 contact hours, laboratory/clinical 45 contact hours. Prerequisite: admission to the Pre-licensure Bachelor of Science in Nursing (BSN) degree program.

NUR 3000. Nursing Informatics (3).F;S.

This course examines the integration of computer science, information science, and nursing science in the nurse's role of designer, manager of information, and coordinator of care. The acquisition, evaluation, and application of information from a variety of sources are analyzed in terms of their applicability for evidence-based practice (EBP) as well as their validity for public access and utilization. Lecture three hours. Prerequisite: admission to the nursing program (RN to BSN). Corequisite: NUR 3011.

NUR 3011. Concepts of Professional Nursing (4).F;S.

GEN ED: Junior Writing in the Discipline (WID)

This course introduces an expanded knowledge about nurses as members of the profession, providers of care, and coordinators, designers, and managers of care related to differentiated practice. Nursing history, process, and roles are explored. Students receive an introduction to theory, practice, and research concepts. Evidence-based and community-based nursing are introduced along with critical thinking. The nursing process and principles that guide practice are explicated. Nursing trends and issues are identified. Lecture four hours. Prerequisites: admission to the nursing program (RN to BSN); and ENG 2001 or its equivalent. Corequisite: NUR 3000. (WRITING)

NUR 3021. Health Assessment (4).F;S.

This course examines the integration of evidence-based knowledge and skills of health assessment into the nurse's roles of provider of care and designer, manager, and coordinator of care. Through the presentation of the concepts of health assessment, coupled with the nursing process, this course emphasizes assessment, identification and documentation of normal and abnormal physical and psychosocial findings across the lifespan with an appreciation of different cultural factors that may influence health. Lecture three hours, laboratory two hours. Prerequisites: NUR 3000 and NUR 3011 with a grade of "C" or higher in each. Corequisite: NUR 3031.

NUR 3031. Nursing Care of Older Adults (3).F;S.

This course covers past, present and predicted trends of the elderly population and their relationship to nursing. The course explores the roles of the nurse with the older adult and her/his family as provider of care as well as designer, manager, and coordinator of care in the many settings where the elder adult lives. The student explores common and chronic health problems, holistic care, safety, ethics, resources, and a variety of health promotion techniques related to the care of the older adult and her/his family. Lecture three hours. Prerequisites: NUR 3000 and NUR 3011 with a grade of "C" or higher in each. Corequisite: NUR 3021. (SPEAKING)

NUR 3100. Adult Health Nursing I (3).F.

This course focuses on the role of the professional nurse as provider of care and member of the interprofessional health care team. Emphasis is on the general principles of health promotion, maintenance, illness care, and rehabilitation in caring for selected adult patients with common alterations in health care needs. The nursing process is reinforced as a basis for nursing care. Lecture three hours. Prerequisite: NUR 2002. Corequisites: NUR 3110, NUR 3120, NUR 3122, and NUR 3124.

NUR 3102. Adult Health Nursing II (3).S.

This course continues the development of students in the roles of provider of care and designer, coordinator, and manager of care. Emphasis is placed on caring for older adults. Students integrate previous knowledge and skills related to common alterations in health care needs in the care of patients and their families experiencing acute and chronic alterations in health care needs. Lecture three hours. Prerequisites: NUR 3100, NUR 3110, NUR 3120, NUR 3122, and NUR 3124. Corequisites: NUR 3112, NUR 3126, NUR 3128, and NUR 3130.

NUR 3110. Adult Health Nursing I Clinical (3).F.

This clinical course provides the beginning student with opportunities to implement the role of provider of care through the application of the nursing process with patients experiencing common alterations in health care needs across the adult life span in a clinical setting. Clinical/laboratory experience consists of 126 contact hours. Prerequisite: NUR 2002. Corequisites: NUR 3100, NUR 3120, NUR 3122, and NUR 3124. Graded on an S/U basis.

NUR 3112. Adult Health Nursing II Clinical (3).S.

This clinical course provides the student with opportunities to implement the role of provider of care and designer, coordinator, and manager of care. The nursing process is applied in the care of patients and their families who are experiencing acute and chronic alterations in health care needs. Emphasis is placed on caring for the older adult in a clinical setting. Clinical/laboratory experience consists of 126 contact hours. Prerequisites: NUR 3100, NUR 3110, NUR 3120, NUR 3122, and NUR 3124. Corequisites: NUR 3102, NUR 3126, NUR 3128, and NUR 3130. Graded on an S/U basis.

NUR 3120. Health Assessment Across the Life Span (4).F.

This course examines how the nurse integrates evidence-based knowledge and skills of health assessment into the roles of provider of care and designer, coordinator, and manager of care. Through the presentation of the concepts of health assessment, coupled with the nursing process, this course emphasizes assessment, identification and documentation of normal and abnormal physical and psychosocial findings across the life span, with an appreciation of different cultural factors that may influence health. Lecture three hours, laboratory three hours. Prerequisite: NUR 2002. Corequisites: NUR 3100, NUR 3110, NUR 3122, and NUR 3124.

NUR 3122. Pharmacology in Nursing (2).F.

This course examines nursing management of medication therapy across the life span. Nursing process, pharmacodynamics, pharmacokinetics, and pharmacotherapeutics are presented as the foundation for safe and effective medication management. Emphasis is placed on dosage calculation, administration technique, patient safety, patient monitoring, patient teaching, and legal and ethical considerations. Medication administration procedure and documentation are practiced through lab simulation. The professional nursing roles of manager of care, coordinator of care, and provider of care are explored, specific to managing medication therapy. Lecture two hours. Prerequisite: NUR 2002. Corequisites: NUR 3100, NUR 3110, NUR 3120, and NUR 3124.

NUR 3124. Foundations of Professional Nursing (3).F.*GEN ED: Junior Writing in the Discipline (WID)*

This course explores the role of the professional nurse as provider of care; designer, coordinator, and manager of care; and member of a profession. Nursing history and processes are discussed. Students receive an introduction to theory, practice, and research concepts. Evidence-based practice, research, critical thinking, and ethical/legal principals are introduced. The nursing process and principles that guide practice are analyzed. Lecture three hours. Prerequisites: NUR 2002 and ENG 2001 or its equivalent. Corequisites: NUR 3100, NUR 3110, NUR 3120, and NUR 3122. (WRITING)

NUR 3126. Mental Health Nursing (3).S.

This course describes the role of the nurse as provider of care; designer, coordinator, and manager of care; and member of a profession related to meeting the mental health nursing needs of individuals experiencing alternations in mental health, in the context of families and communities. Promotion and restoration of mental health and prevention of mental illness are explored in individuals across the life span. Theories of mental health/illness and approaches to the care of persons with selected mental illness/emotional needs are examined. The focus is on holistic, patient-centered, and evidence-based care of the patient with mental health nursing needs. Lecture three hours. Prerequisites: NUR 3100, NUR 3110, NUR 3120, NUR 3122, and NUR 3124. Corequisites: NUR 3102, NUR 3112, NUR 3128, and NUR 3130.

NUR 3128. Mental Health Nursing Clinical (3).S.

This course assists the student in learning practical applications of the content taught in NUR 3126, Mental Health Nursing. These applications are inherent in the roles of the professional nurse as provider of care; designer, coordinator, and manager of care; and member of a profession. The focus is on evidence-based, holistic approaches to care of the patient in the area of selected mental, emotional, and cognitive alterations. Clinical /laboratory experience consists of 126 contact hours. Prerequisites: NUR 3100, NUR 3110, NUR 3120, NUR 3122, and NUR 3124. Corequisites: NUR 3102, NUR 3112, NUR 3126, and NUR 3130. Graded on an S/U basis.

NUR 3130. Trends and Issues in Nursing (2).S.

In this course, students explore and analyze economic, ethical, legal, policy, and regulatory issues affecting nursing. This course enhances students' acquisition of the roles of designer, coordinator, and manager of care; and member of a profession. Students learn and practice advocacy skills for vulnerable populations. Topics include financial and economic issues in health care, the functions of government agencies in the development and enforcement of health care policies, bioethical issues, and the roles of various regulatory agencies in the nursing and health care fields. Lecture two hours. Prerequisites: NUR 3100, NUR 3110, NUR 3120, NUR 3122, and NUR 3124. Corequisites: NUR 3102, NUR 3112, NUR 3126, and NUR 3128. (SPEAKING)

NUR 3500. Independent Study (1–4). On Demand.**NUR 3520. Instructional Assistance (1).F;S.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract is required.

NUR 3530–3549. Selected Topics (1–4). On Demand.**NUR 4021. Nursing Care of Communities (4).F;S.**

In this course, students concentrate on the nurse's roles of provider of care, designer, manager, and coordinator of care and member of the profession in caring for groups in a community setting. The focus is on assisting vulnerable populations to achieve improved health goals and outcomes. Students participate in a variety of techniques for improving health care, such as patient education. Also, students partner with community agencies to positively influence health care. Lecture three hours, clinical laboratory two hours. Prerequisites: NUR 3000, NUR 3011, NUR 3021, and NUR 3031 with a grade of "C" or higher in each. Corequisite: NUR 4029.

NUR 4029. Nursing Leadership and Management (4).F;S.

This course emphasizes professional practice and concentrates on the roles of the professional nurse as a provider of care, as well as a designer, manager, and coordinator of care, in addition to being a member of the profession. Focus includes theories, research, and issues related to leadership, change, and management of nursing practice within the broader context of healthcare delivery. Lecture three hours, clinical laboratory two hours. Prerequisites: NUR 3000, NUR 3011, NUR 3021, and NUR 3031 with a grade of "C" or higher in each. Corequisite: NUR 4021. (WRITING)

NUR 4032. Professional Nursing Synthesis (5).F;S.*GEN ED: Capstone Experience*

This capstone course is a synthesis of knowledge, theories, and clinical experiences from course work throughout the nursing major. Students develop learning contracts incorporating the roles of provider of care, designer, manager, and coordinator of care, and the member of the profession. The course consists of 120 clinical hours and 30 hours of clinical conference. Prerequisites: NUR 4021 and NUR 4029. Corequisite: NUR 4033.

NUR 4033. Nursing Research (3).F;S.

This course examines the role of research and theory in nursing practice and health care. In addition, it provides an overview and an analysis of research methodologies and the theoretical approaches with a continued look at evidence-based practice. The roles of the professional nurse as a member of the profession and provider of care as they relate to the application of nursing research in practice are explored. Lecture three hours. Prerequisites: NUR 4021 and NUR 4029 with a grade of "C" or higher in each. Corequisite: NUR 4032.

NUR 4090. Transcultural and Global Nursing (3).On Demand.

This course compares and contrasts health care delivery systems and nursing education in the United States with those in selected industrial and developing countries' systems. Prerequisites: NUR 3000 and NUR 3011 with a grade of "C" or higher in each.

NUR 4091. Nursing Care of Rural Communities (3).On Demand.

This course examines the knowledge and skills in adapting nursing practice to the rural community. Requires the completion of a 30-hour practicum. Prerequisites: NUR 3000 and NUR 3011 with a grade of "C" or higher in each.

NUR 4100. Introduction to Nursing Research (3).F.

This course examines the role of research and theory in nursing practice and health care. In addition, it provides an overview and an analysis of research methodologies and theoretical approaches with a continued look at evidence-based nursing practice. The roles of the professional nurse as provider of care; designer, coordinator, and manager of care; and member of a profession as they relate to the application of nursing research in practice are explored. Lecture three hours. Prerequisites: completion of all 3000 level nursing courses required for the BSN program. Corequisites: NUR 4120, NUR 4122, NUR 4124, and NUR 4126.

NUR 4110. Adult Health Nursing III (2).S.

This course is a 7 ½ week concentrated course in which students continue to develop the three nursing roles: provider of care; designer, coordinator, and manager of care; and member of a profession. Emphasis is on complex alternations in the health status of adults and the impact on their families. It builds on knowledge and skills from NUR 3100 and NUR 3102, Adult Health Nursing I and II. Lecture two hours. Prerequisites: NUR 4100, NUR 4120, NUR 4122, NUR 4124, and NUR 4126. Corequisites: NUR 4112, NUR 4128, and NUR 4130.

NUR 4112. Adult Health Nursing III Clinical (2).S.

This 7 ½ week clinical course provides opportunities for students to apply the nursing process and assume the roles of provider of care; designer, coordinator, and manager of care; and member of a profession in caring for adults and their families who are experiencing complex alternations in their health status across the adult life span. Settings include high acuity and/or highly technical environments including critical care units and emergency departments. Clinical/laboratory experience consists of 84 contact hours (12 hours of clinical for 6 weeks plus 12 hours of laboratory simulation). Prerequisites: NUR 4100, NUR 4120, NUR 4122, NUR 4124, and NUR 4126. Corequisites: NUR 4110, NUR 4128, and NUR 4130. Graded on an S/U basis.

NUR 4120. Nursing Care of Families and Communities (3).F.

Students concentrate on the nurse's roles of provider of care; designer, coordinator, and manager of care; and member of a profession. Students use evidence-based practice resources to promote optimal health in individuals, families, groups, and the community. Emphasis is placed on vulnerable and diverse populations. Current public health problems, epidemiology, trends in healthcare delivery, and community resources are examined. Students analyze the sociocultural, political, economic, ethical, and environmental factors that influence community and global health. Students learn how to partner and interact with the interprofessional health care team within community agencies. Lecture three hours. Prerequisites: completion of all 3000 level nursing courses required for the BSN program. Corequisites: NUR 4100, NUR 4122, NUR 4124, and NUR 4126.

NUR 4122. Nursing Care of Families and Communities Clinical (3).F.

In this course, students implement the nursing roles of provider of care; designer, coordinator, and manager of care; and member of a profession. Students apply evidence-based practice resources to provide holistic nursing care for individuals, families, groups, and communities. The focus is on assisting vulnerable and/or diverse populations to achieve optimal health goals and outcomes. Knowledge of current public health problems, epidemiology, trends in healthcare delivery, and community resources are applied. Students analyze the sociocultural, political, economic, ethical, and environmental factors that influence community and global health. Students partner and interact with the interprofessional health care team and community agencies to positively influence community health care. Clinical/laboratory experience consists of 126 contact hours. Prerequisites: completion of all 3000 level nursing courses required for the BSN program. Corequisites: NUR 4100, NUR 4120, NUR 4124, and NUR 4126. Graded on an S/U basis.

NUR 4124. Nursing Care of Childbearing Families, Women, and Children (3).F.

This course focuses on the roles of the professional nurse as provider of care; designer, coordinator, and manager of care; and member of a profession in caring for diverse families, women during childbearing years, and children from utero through adolescence. Students learn how to provide nursing care that is patient-centered, holistic, evidence-based, and culturally competent. Nursing and family theory as well as communication theory are examined in the context of caring for childbearing families, women and children. Lecture three hours. Prerequisites: completion of all 3000 level nursing courses required for the BSN program. Corequisites: NUR 4100, NUR 4120, NUR 4122, and NUR 4126.

NUR 4126. Nursing Care of Childbearing Families, Women, and Children Clinical (3).F.

This course focuses on the roles of the professional nurse as provider of care; designer, coordinator, and manager of care; and member of a profession. Students provide patient-centered, holistic, culturally competent, and evidence-based care to families, women during their childbearing years, and children from utero through adolescence. Nursing and family theories provide guidance and understanding of patient diversity in a variety of settings. Sound communication techniques are emphasized. Clinical/laboratory experience consists of 126 contact hours. Prerequisites: completion of all 3000 level nursing courses required for the BSN program. Corequisites: NUR 4100, NUR 4120, NUR 4122, and NUR 4124. Graded on an S/U basis.

NUR 4128. Leadership and Management in Nursing (3).S.

This course emphasizes professional practice in the leadership and management of nursing care, and concentrates on the roles of the nurse as provider of care; designer, coordinator, and manager of care; and member of a profession. The focus includes theories, research, and issues related to leadership, change, and management of nursing practice in the context of healthcare delivery. Lecture three hours. Prerequisites: NUR 4100, NUR 4120, NUR 4122, NUR 4124, and NUR 4126. Corequisites: NUR 4110, NUR 4112, and NUR 4130. (WRITING)

NUR 4130. Professional Nursing Capstone (3).S.

GEN ED: Capstone Experience

This capstone course is offered over a 7 ½ week block and is designed to prepare students for professional nursing practice in the role of a generalist. The course includes 18 hours of clinical per week for 7 weeks plus 9 hours of laboratory simulation for a total of 135 contact hours. Students are provided an opportunity to integrate knowledge and skills from previous coursework and experiences in order to demonstrate how successfully and to what extent they have achieved course and program outcomes. Students meet this expectation through a) developing learning contracts tailored to their own learning needs and interests, and b) engaging in activities that display a mastery of previous learning applied to new situations. Students will assume the following nursing roles: provider of care; designer, coordinator, and manager of care; and member of a profession. Prerequisites: NUR 4100, NUR 4120, NUR 4122, NUR 4124, and NUR 4126. Corequisites: NUR 4110, NUR 4112, and NUR 4128. Graded on an S/U basis.

NUR 4530–4549. Selected Topics (1–4). On Demand.

Department of Nutrition and Health Care Management (NHM)

Sarah R. Jordan, Chair

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Melissa D. Gutschall

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Kyle L. Thompson

David R. Williams

Nutrition and Health Care Management is concerned with the health and well-being of individuals, families, and communities. The two areas have a specific focus and prepare entry level professionals who can demonstrate competency and function effectively in their chosen career.

The Department of Nutrition and Health Care Management offers the following:

Bachelor of Science in Nutrition and Foods (840*/51.3101)

with concentrations in Dietetics (840B) and Foodsystems Management (840C)

Bachelor of Science in Health Care Management (845A/51.0701)

Undergraduate minor in Nutrition and Foods (840/51.3101)

Undergraduate minor in Health Care Management (845/51.0701)

Master of Science in Nutrition (841A/51.3101)

Nutrition is concerned with food quality, safety and adequacy; nutrition and diet; and the effective management of foodsystems. The Nutrition and Foods, Dietetics concentration is accredited by the Accreditation Council for Education in Nutrition and Dietetics, the accrediting agency for the Academy of Nutrition and Dietetics. Upon graduation, the student is qualified for an accredited internship in an accredited hospital or other acceptable institutions, thus becoming eligible for Academy membership and Registered Dietitian status. The Nutrition and Foods, Foodsystems Management concentration prepares students for management positions in various foodsystems, including restaurants, hotels, and institutional foodservice - schools, hospitals and colleges.

Health Care Management prepares students for entry level administrative or management jobs in health delivery organizations (such as hospitals, physician's offices, long-term care facilities or outpatient centers), health-related government agencies or other businesses that support health care delivery (insurers, medical suppliers, pharmaceutical companies, etc.) As a component of the degree requirements, students will complete an internship of 300 hours in a health care or health-related organization where the student can apply principles and knowledge gained in the classroom setting. The Health Care Management degree is certified nationally by the Association of University Programs in Health Administration.

Nutrition and Foods (NUT)

The Bachelor of Science in Nutrition and Foods (840*/51.3101) with a concentration in Dietetics (840B)

The program of study is available at: www.programsofstudy.appstate.edu/nutrition-and-foods-bs-dietetics-840b-2012-2013

The Bachelor of Science in Nutrition and Foods (840*/51.3101) with a concentration in Foodsystems Management (840C)

The program of study is available at: www.programsofstudy.appstate.edu/nutrition-and-foods-bs-foodsystems-management-840c-2012-2013

Nutrition and Foods Minor (840/51.3101) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/nutrition-and-foods-minor-840-2012-2013

Health Care Management (HCM)

The Bachelor of Science degree in Health Care Management (845A/51.0701)

The program of study is available at: www.programsofstudy.appstate.edu/health-care-management-bs-845a-2012-2013

Minor in Health Care Management (845/51.0701) (18 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/health-care-management-minor-845-2012-2013

Graduate Degree

The Department of Nutrition and Health Care Management offers a Master of Science degree in Nutrition. Persons interested in this graduate degree program in nutrition are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Nutrition (NUT) and Health Care Management (HCM)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

NUTRITION (NUT)

NUT 1202. Basic Food Science (3).F;S.

Introduction to and emphasis on basic scientific principles of food. Integration of scientific principles into food study from the consumer perspective including identification and conservation of nutrients into a meal management format. Lecture two hours, laboratory two hours.

NUT 2201. Foods and Nutrition for Children (2).F;S.

A study of relationships between nutrition and emotional, mental and physical well-being of infants and children. Diet planning, food preparation, food purchasing, storage, sanitation and safety standards in child development programs. Lecture two hours.

NUT 2202. Nutrition and Health (3).F;S.

GEN ED: Wellness Literacy

Application of basic nutrition principles to the prevention of disease and the promotion of health. The wellness perspective is integrated in the course through the following topics: chronic diseases, health risk assessment, decision making, health behavior change, wellness planning and evaluation, and literature evaluation. Lecture three hours. (CORE: PHYSICAL ACTIVITY/WELLNESS)

NUT 2203. Organization and Management in Food Service (3).S.

Introduction to organizational theories and their application in food service organizations. Emphasis will be given to the systems management theory and its application to food service. Management functions will be applied to commercial and non-commercial food service operations. Management characteristics, traits, competencies and skills required to operate food production and service will be discussed. Lecture three hours.

NUT 2351. Global Nutrition: Emerging Health Challenges (3).F;S.

GEN ED: Local to Global Perspective (Theme: "Global Resources")

This course will examine global nutritional issues as they pertain to health and incidence of disease, integrating social, biological, political, economic, and environmental factors. The relationship of nutrition and global health to diverse aspects of globalization and economic development will be explored. Specific issues include hunger and obesity, infant mortality and elder health, nutritional programs and agencies, local to global food markets, and meat versus plant food sources. Students will gain the ability to accurately evaluate the food and health issues of a specific country or region. Lecture three hours.

NUT 2500. Independent Study (1–4).On Demand.

NUT 3100. Nutrition Assessment (3).S.

A comprehensive study of the components of nutrition assessment, including anthropometric, biochemical, clinical and dietary assessments of individuals across the life span. This study will include aspects examining nutrient content of various foods and exploring various aspects of food preferences, including culture and religion. Students will gain basic proficiency in the use of the Nutrition Care Process and will also engage in practical application of concepts gained in class. Prerequisites: NUT 2202 and HP 3200.

NUT 3150. Profession of Dietetics (2).F.

An examination of the professions in dietetics. Students will explore aspects of educational preparation, areas of specialization, and professional and ethical issues in the discipline. Prerequisite: NUT 2202.

NUT 3202. Food Purchasing and Production Management (3).F.

Managerial aspects of food service systems purchasing activity. Emphasis on steps in the flow of costs: purchasing, receiving, storage, issuing, preparation, portioning, service, and accounting for sales. Particular attention will be given to product identification and specification. Labor costs and the technological applications that assist managers in purchasing are discussed. Active problem solving and computer applications are used to relate the principles learned to the food service industry. Lecture three hours. Prerequisites: ACC 1050, NUT 1202, and NUT 2203. (WRITING)

NUT 3205. Nutrition and the Life Cycle (3).F.

The study of nutritional needs and concerns in the various physiological ages of humanity. Application of the principles of nutrition to pregnancy, lactation, infancy, pre-school and school age years, adolescence, adulthood, and later maturity with discussions of nutrition services and programs available. Lecture three hours. Prerequisites: NUT 2202 and biology recommended.

NUT 3210. Beverage Management (3).On Demand.

Integration of food service management principles to beverage operations with emphasis on legal and liability issues, staff training, customer service, pricing, purchasing, storage, loss prevention and marketing strategies. Lecture three hours.

NUT 3500. Independent Study (1–4).On Demand.

NUT 3520. Instructional Assistance (1).On Demand.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

NUT 3530–3549. Selected Topics (1–4). On Demand.

NUT 4000. Nutrition Counseling (3).F.

Principles of dietary counseling for the general population and for individuals with special health problems. Principles of teaching and learning applied to nutrition counseling of patients with specific health problems. Lecture three hours. Corequisite: NUT 4240.

NUT 4200. Advanced Nutrition I (3).S.

GEN ED: Junior Writing in the Discipline (WID)

The role of nutrients at the specialized cellular level. Emphasis on intermediary metabolism of carbohydrates, proteins and fats. Scientific planning of adequate dietaries for normal individuals of different economic levels as related to health and efficiency. Lecture three hours. Prerequisites: NUT 3205, CHE 2101, CHE 2102, and ENG 2001 or its equivalent. (WRITING)

NUT 4205. Seminar in Food Systems Management (1).On Demand.

A consideration of contemporary topics in food systems management via seminar format. Prerequisite: senior status.

NUT 4206. Advanced Nutrition II (3).F.

Function of minerals in human metabolism, homeostatic maintenance, and critical interpretation of nutrition information. Lecture three hours. Prerequisite: NUT 4200.

NUT 4240. Medical Nutrition Therapy I (3).F.

Techniques for assessing, evaluating, planning, and counseling individuals and their families to improve nutritional status. Role of dietary modifications in prevention and treatment of disease such as obesity, heart disease, and diabetes. Methods of nutrition support the techniques used in this course. Prerequisites: ES 2030, HP 3200, NUT 4200, and NUT 4552. Corequisite: NUT 4000.

NUT 4250. Medical Nutrition Therapy II (3).S.

Role of dietary modifications in the treatment of pathological conditions with an emphasis on assessment, planning, and counseling of clients and their families. Includes medical nutrition therapy for gastrointestinal disorders, allergies, liver disease, metabolic disorders, heart failure, pulmonary disorders, renal disease, cancer and HIV. Prerequisites: NUT 4206 and NUT 4240.

NUT 4504. Foodsystems/Dietetics Administration (3).S.

Budget development and resource allocation, including financial status monitoring, evaluation, and control. The course will also cover quality improvement, human resources, employment processes and procedures, and facility layout, including the composition, role and responsibilities of facility planning teams as well as equipment selection and specification. Lecture three hours. Prerequisite: NUT 3202. (SPEAKING)

NUT 4509. Quantity Food Production (3).F; S.

Application of food service principles to quantity food service: menu planning, recipe development and standardization, costing, marketing trends, purchasing, production, presentation, and service considerations. Prevention of all types of food contamination; the Hazard Analysis Critical Control Point (HACCP) food safety system is emphasized. Aesthetics of food as related to the food service industry. Lecture one hour, laboratory four hours. Prerequisite: NUT 3202 or approval of the instructor. (MULTI-CULTURAL)

NUT 4540. Diet and Public Health (3).On Demand.

Reviews the effects of foods, nutrients, and dietary patterns on health. Examines the dietary recommendations that have the potential for reducing the risk of chronic diseases and estimates the impact of these recommendations. Prerequisite: NUT 2202.

NUT 4550. Experimental Food Study (3).On Demand.

A study of the theories of food preparation, the effect of processing on food, the interrelationship of various aspects of food science to nutrition and the judgement of products and establishing of standards. Lecture one hour, laboratory four hours. Prerequisite: NUT 1202. (WRITING)

NUT 4552. Medical Terminology/Records (1).S.

This course is designed to help students develop an understanding of the medical terminology and vocabulary utilized in medical records and health professions. Lecture one hour. [Dual-listed with NUT 5552.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

NUT 4555. Nutritional Aspects of Exercise and Sports (3).F;S.

A study of nutrition specific to physical activity and sport performance. Topics will include metabolism during exercise, sport-related weight gain and loss, food and fluid intake for competition, nutritional ergogenic aids, exercise recovery nutrition, and various special topics. Prerequisites: ES 2010, ES 2030 or equivalent, and ES 3450. Prerequisites or corequisites: CHE 2101 (or CHE 2201) and CHE 2203. (CROSS-DISCIPLINARY) (Same as ES 4555.)

NUT 4560. Community Nutrition (3).S.

An introduction to nutrition needs of the community and nutrition services provided to the public through various agencies and organizations, techniques for determining nutrition needs, methods of extending services to various groups in the community, and factors affecting acceptance of these services. Lecture three hours. Prerequisite: NUT 2202. (SPEAKING; COMPUTER)

NUT 4600. Professional Development (1).F.

Preparation for both the internship (NUT 4900) and professional job search in nutrition and foodsystems management. Emphasizes goal setting, resume preparation, interview strategies, written and oral communication for the job search process, and professional ethics. Preparation of the internship proposal for NUT 4900 will be completed. Lecture one hour. Prerequisite: senior standing.

NUT 4900. Internship (1-12).F;S.

GEN ED: Capstone Experience

Field experience or employment in the area of the student's interest: dietetics (experience will be obtained in clinical, foodservice, and community) or foodsystems management. Supervision and evaluation by the employer and the faculty member.

Prerequisites:

- A. 2.0 overall grade-point average
- B. College rank: seniors (90 s.h. completed toward degree)
- C. Major courses completed:
 1. Dietetics:
 - a. Community - Prerequisites: NUT 3205, NUT 4560
 - b. Foodservice - Prerequisites: NUT 2203, NUT 3202; Prerequisites or Corequisites: NUT 4504, NUT 4509
 - c. Clinical - Prerequisite: NUT 4250
 2. Foodsystems Management: NUT 2202, NUT 2203, NUT 3202, NUT 4504, NUT 4509
- D. Internship proposal fully approved

Graded on an S/U basis. Contact hours requirement for three credit hours is 150 hours with 50 hours required for each additional credit.

HEALTH CARE MANAGEMENT (HCM)

HCM 1530–1549. Selected Topics (1–4). On Demand.

HCM 2110. Introduction to Health System Organization (3).F;S.

This course provides an overview of the organizational structure of health care services and the forces that influence the organization of health services in the United States. The perspectives of health and health status of Americans are examined in the context of cultural, economic, social and political forces. The course is designed to provide a foundation of knowledge regarding the issues of relevance to the future of health care delivery.

HCM 2530–2549. Selected Topics (1–4). On Demand.

HCM 3130. Managing Health Care Organizations (3).F;S.

This course focuses on the structure, function, and interconnection of various health care organizations that make up the US health care system. Specific attention is paid to the unique challenges faced by health care managers, in addition to the unique challenges of managing various health care professionals. The course instructs students on the attributes of key health care organizations, namely hospitals and integrated delivery systems, ambulatory care, managed care organizations and insurance firms, biopharmaceutical firms, and other health care organizations. Administrative and other principles are addressed within the healthcare setting. Prerequisite or corequisite: HCM 2110 or permission of the instructor.

HCM 3500. Independent Study (1–4).F;S.

HCM 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Graded on an S/U basis. May be repeated for a total credit of three semester hours.

HCM 3530–3549. Selected Topics (1–4). On Demand.

HCM 3570. Principles of Financial Management for Health Care (3).F;S.

This course provides an introduction to the role of finance in the private and public sectors of the health services industry. Topics covered include corporate finance, financial markets, and sources of capital for healthcare organizations. Common tools for the financial analyses of healthcare firms are explored, and students should develop foundational knowledge of the financial concepts important to managerial decision-making in the health services industry. Prerequisites: ACC 2100 and MAT 1030.

HCM 3580. Health Services Research Methods (3).F.

This course involves an overview of the fundamentals of health services research, emphasizing how health care managers and administrators can apply fundamentals of scientific methods and research principles to management problems and decision-making. The course will also instruct students how to read and understand scientific literature and research, which is critical for lifelong learning in the health services. Prerequisites: ECO 2100 and HCM 2110, or permission of the instructor. (WRITING)

HCM 3590. Quality Management and Process Improvement in Health Care (3).S.

This course is an overview of the fundamental theories and principles of quality management and performance improvement in US health care organizations. The course instructs students on techniques and tools currently used by health care organizations to monitor and improve the quality of their clinical and administrative functions. The course also instructs students regarding the leadership and management approaches and skills necessary to promote a culture of quality in a health services organization. Prerequisite: HCM 2110 or permission of the instructor.

HCM 3630. Health Services Organization Behavior and Design (3).F;S.

This course informs and instructs in the theories, principles and concepts of organization behavior and design particularly related to health care organizations. The course focuses on understanding behavior at the level of individuals, groups and teams, and the organization as a whole. Concepts of health care organizational structure and design are also covered in this course. The aim of the course is to develop skills, attributes and behaviors of managerial professionals working in the health services industry.

HCM 3680. Human Resource Management in Health Service Organizations (3).F.

This course provides an overview of human resource management, particularly the functions, structure, laws and principles of effective human resource management in the health services industry. Instruction emphasizes the management of health care personnel focusing on the unique nature of health care specialization, professional licensure, and employee productivity and satisfaction. Additionally, the course addresses current issues in human resource management, such as managing health labor shortages. Prerequisite: HCM 2110 or permission of the instructor.

HCM 3700. Health Information Systems (3).F;S.

This course is a general introduction to information technology and the management of information systems in complex organizations such as health services organizations. The course will instruct students in basic hardware/software concepts, communication and networking concepts, and the important considerations in planning strategically for information technology in health service organizations.

HCM 3800. Professional Development I (1).F.

This course provides an introduction to the professional environment in which health care supervisors and managers work. Students will be exposed to the skills and behaviors of professional health care managers and leaders. Students will also begin developing strategies for securing their internship in health care management. Graded on an S/U basis. Prerequisite or corequisite: HCM 2110 or permission of the instructor.

HCM 3810. Professional Development II (1).S.

This course provides further instruction regarding the professional environment in which health care supervisors and managers work. Students will continue to learn the skills and behaviors of professional health care managers and leaders, with additional emphasis on written and verbal communication, how managers interact with other health professionals, and the educational requirements for health executive careers. Students will continue working toward securing their internship in health care management, as well as developing personal career goals. Graded on an S/U basis. Prerequisite or corequisite: HCM 3800 or permission of the instructor.

HCM 3900. Internship (6).SS.

A full-time work experience in health care management. Limited to declared HCM majors. Six semester hours are granted for the internship, usually during the summer term in a health care facility, service or program, or health-related organization. Graded on an S/U basis. Prerequisites: HCM 3810 and permission of the HCM program director.

HCM 4500. Independent Study (1–4).F;S.

HCM 4510. Senior Honors Thesis (3).On Demand.

Independent study and research project directed by a departmental faculty advisor on a topic of mutual interest to both student and advisor. The thesis should be completed during the senior year as a final requirement for graduation with honors and includes a formal presentation to the college faculty.

HCM 4530-4549. Selected Topics (1-4).On Demand.

Prerequisite: HCM 2110 or permission of the instructor.

HCM 4550. Health Care Politics and Policy (3).On Demand.

The course will examine the process by which health care policy, laws and regulations are proposed, formulated, implemented, and modified. The political process and the role of constituencies of the health policy-making process will be examined. Specific examples of major health policy issues will be drawn from federal and state sectors focusing on costs, quality, and access to health care programs or services. Prerequisite: HCM 2110 or permission of the instructor.

HCM 4560. Managed Care (3).On Demand.

This course describes the basic concepts and incentives of risk as applied to health insurance. The principles of third party payment and health insurance in the form of managed care are studied in detail. The course emphasizes how health care managers interact with managed care organizations to include contract negotiations, utilization review and reimbursement management. Prerequisite: HCM 2110 or permission of the instructor.

HCM 4570. Health Services Financial Management (3).F;S.

This course provides an overview of the organizational and operational aspect of fiscal management, control, and analysis of health care organizations. Because the role of third party payment is a distinct and unique characteristic of the health care industry, particular attention is given to public and private health insurers and managed care, as well as operational considerations for managing reimbursement, revenue and expenses, and for developing budgets in health service organizations. Prerequisites: ACC 2100 and ACC 2110, and HCM 3570 or FIN 3680, or permission of the instructor.

HCM 4630. Principles of Leadership for Health Service Organizations (3).F;S.

This course informs and instructs in the theories, principles and concepts of leadership particularly applied to health service organizations. The aim of the course is to develop leadership skills, attributes and behaviors to enable graduates to lead successful health care organizations. Prerequisites: HCM 2110 and HCM 3130, or permission of the instructor.

HCM 4710. Health Informatics (3).F;S.

This course instructs students on how healthcare organizations can use information technology (IT) to achieve better operational performance and strengthen the quality of services offered to their patients. Topics covered include: using IT to transform clinical processes, integrating clinical and administrative work processes through IT, and aligning business and clinical strategies. The course will explore in detail electronic medical records, medical informatics, and privacy/security requirements for healthcare IT. Prerequisite: HCM 3700 or CIS 2050, or permission of the instructor.

HCM 4910. Health Law and Policy (3).S.

This course is designed to provide students with a background in law and an introduction to health policy as applied to health care organizations and health professionals. The course will cover aspects of tort, contract, criminal, antitrust, and administrative law and civil procedure as they relate to health service organizations and health personnel. Prerequisite: HCM 2110 or permission of the instructor.

HCM 4930. Ethics in Health Care (3).F.

This course will explore the role of ethics in management and leadership in today's healthcare environment through analysis of ethical and bioethical issues confronting the US health care delivery system. The course explores the use of moral reasoning applied to health care concerns encountered by health care leaders, managers and clinicians. Emphasis will be on critical thinking, real-world application, and decision-making in a professional environment.

HCM 4950. Seminar in Health Care Management (3).F;S.

GEN ED: Capstone Experience

This course integrates all HCM courses and other core courses through readings, case and scenario analyses, and small projects. The course requires students to apply the concepts of accounting, financial management, quality management, marketing, business planning, operations, strategic management, and public policy specifically to the unique environmental, regulatory, legal, ethical, and professional demands of the health care industry. Prerequisites: HCM 2110, HCM 3130, and final semester senior status, or permission of the instructor. (WRITING; SPEAKING)

Department of Social Work (SW)

Lauren E. Renkert, Interim Chair

Ben E. Alexander-Eitzman

Kellie Reed Ashcraft

Tiffany Y. Christian

Julie Sprinkle Hill

Michael L. Howell

Judy Kaplan

Denise L. Levy

Deborah L. Phillips

Heather Thorp

Kelly A. Williams

The Department of Social Work at Appalachian State University is guided by an overarching framework of social and economic justice. Housed within the College of Health Sciences, the Social Work Department's mission is to promote the well-being of individuals, families, groups and communities and to meet the work force needs for professional social workers, especially at the local and regional level. The undergraduate (BSW) and graduate (MSW) programs are designed to assist students to develop competencies for ethical and culturally competent generalist social work practice within the distinct Appalachian culture of the region and across national and international contexts. The graduate program is further charged with providing educational opportunities for students to develop expertise in advanced direct practice with individuals and families, or in leadership roles within community and organizational practice. Through scholarly activities and service, members of the faculty contribute to the knowledge base of the profession, enhance social work practice throughout the region and state, and support the social work profession regionally, nationally and globally.

Information about the MSW program can be found in the *Graduate Bulletin* or on the Department of Social Work website at www.socialwork.appstate.edu/master-social-work.

The BSW curriculum builds on a liberal arts education and includes coursework in human behavior theories, policy analysis, research, social welfare, and generalist practice. This curriculum design provides opportunities for students to gain the knowledge, theory, practice and interpersonal competencies which form the foundation of the profession. The BSW program culminates with a field practicum where students work under close supervision of an experienced social worker in a social service agency. At the successful completion of the BSW program, students are expected to demonstrate competence in eleven core areas and be prepared for entry level professional practice. Graduates have full professional status and may be granted advanced standing in two-year master's degree programs in social work.

The Bachelor of Social Work degree (BSW) (281A/44.0701)

The BSW program consists of 52 semester hours of class work in social work. As part of the curriculum, students will complete a Field Instruction course that requires 440 clock hours of instruction in a social service agency. In addition, 19 semester hours of specified courses in the social sciences, the humanities, and natural sciences (biology) are required. Transfer of social work credits will be limited to 2000 level courses, completed at CSWE accredited programs only. A grade of "C" or better is required for all transfer courses. Transfer decisions will be based on review of syllabi. Curriculum credit cannot be given for life experience or work experience.

The program of study is available at: www.programsofstudy.appstate.edu/social-work-bsw-281a-2012-2013

Declaration of the Social Work Major

Students may declare social work as their major when they have met the following requirements for admission to the College of Health Sciences: completion of at least 30 semester hours, a grade-point average of at least 2.0, and credit for ENG 1000 or an equivalent course and credit for or current enrollment in UCO 1200 or an equivalent course. Students should work closely with a social work advisor to plan their course of study.

Admission to the Professional Sequence

Due to the professional nature of the program, the curriculum has been developed to reflect both foundation and professional sequence courses. The foundation courses include SW 2010, SW 2020, SW 2615, SW 2630, and SW 3000. These courses are open to students regardless of major.

In order to progress beyond the foundation courses, students must apply and be admitted to the professional sequence. This sequence includes: SW 3330, SW 3850, SW 3870, SW 4000, SW 4010, SW 4020, SW 4650, and SW 4690. Students apply to the professional sequence when they are enrolled in, or have completed, all of the foundation courses, receiving a grade of "C" or better in each. Academic standards for admission include an overall GPA of 2.5 and a social work GPA of 2.5. Deadlines for applying are November 1 if applying in the fall semester and April 1 if applying in the spring. A complete application, including an essay, must be submitted prior to the deadline.

Academic Standards for Retention

Academic standards for retention in the professional sequence include performance in five general areas: 1) scholastic achievement; 2) professional identity and self awareness; 3) ethical behavior; 4) interpersonal relationship skills; and 5) commitment to diversity, social justice, and human rights. Failure to meet the professional sequence academic standards may result in dismissal from the program.

Majors must achieve a grade of "C" or higher in all social work and required cognate courses, and must maintain an overall GPA of 2.5 and a 2.5 GPA for all required social work courses. Students may repeat a social work course only once. Students may repeat only two social work courses throughout the program.

Minor in Social Work (281/44.0701) (18 semester hours)

The primary purpose of the minor in Social Work is to complement a student's major. It does not prepare the student for social work practice.

The program of study is available at: www.programsofstudy.appstate.edu/social-work-minor-281-2012-2013

Honors Program in Social Work

The Department of Social Work offers an honors program at the undergraduate level to students who have distinguished academic records. Credit earned in courses taken for honors may be applied toward the major, the minor, or the electives required for graduation. To graduate with "Honors in Social Work," a student must meet the following criteria: a minimum overall GPA of 3.5; a minimum GPA of 3.5 in social work courses; and successful completion of the honors sequence. The honors sequence consists of nine semester hours of courses taken for honors, with at least a grade of "B" in each. Six semester hours can be taken from: SW 2615, SW 3330, and SW 3870 or students may arrange to take other social work courses on an honors basis by negotiating an honors contract with the course instructor before class begins and three semester hours must be taken by completing the senior honors thesis course (SW 4510).

Graduate Degree

The Department of Social Work offers a Master of Social Work degree. Students interested in this degree program should consult the *Graduate Bulletin* for further information.

Courses of Instruction in Social Work (SW)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

SOCIAL WORK (SW)

SW 2010. Professional Social Work in Contemporary Society (3).F;S.

Provides the student with the opportunity to learn about social work as a major helping profession and social work practice in a changing society. Focus is on characteristics of the helping professions; underserved populations in the U.S.; and the wide variety of settings in which professional social workers practice. Entry level course for social work majors. Prerequisite: at least second semester freshman standing.

SW 2020. The American Social Welfare System (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "This American Life")

An introduction to social welfare as a concept and as a social institution: overview of the public and private network of social programs and services intended to help fulfill basic human needs. Analysis of major social issues, problems, and values which shape social policy and the distribution of resources in the U.S., with attention to several other nations. (CORE: SOCIAL SCIENCES)

SW 2500. Independent Study (1–4).F;S.

SW 2615. Cultural Competence in the Helping Professions (3).F;S.

This course offers an opportunity for students to examine both personal and professional issues related to practice in the helping professions. Focus is on sensitivity to, understanding of, and appreciation for people from diverse cultural backgrounds. It includes content related to vulnerable, underserved groups in the United States and examines culture and social class within the context of culturally proficient delivery of human services. (MULTI-CULTURAL)

SW 2630. Human Behavior and the Social Environment (3).F;S.

The person-in-environment approach is applied to stages of the life cycle. Review and application of relevant social science and social work theories, concepts, and research is included. This course also provides the student with the opportunity to become skilled at assessing human functioning in varied social contexts and provides the bases for developing strategies for social work intervention. Prerequisites: BIO 1102 or its equivalent, PSY 1200, and SOC 1000 or SOC 1100.

SW 3000. Basic Skills for the Social Work Profession (3).F;S.

Introduces students to topics and skills considered basic to beginning social work practice. Experiential learning is stressed. The course is designed to teach effective relationship, communication, interviewing and recording skills, based on ethical and professional values. A 30-hour volunteer experience is required, providing students opportunities to test their knowledge and skills in a professional setting. Prerequisites: PSY 1200, SOC 1000 or SOC 1100, or consent of the BSW Program Director.

SW 3330. Social Welfare Policies, Programs, and Issues (3).F;S.

GEN ED: Junior Writing in the Discipline (WID)

Examines policies and issues associated with existing social service delivery systems, and emphasizes policy formulation and assessment of alternative strategies for establishing and meeting social goals. Influence of social work principles, values, and practice on social welfare policies and issues. Prerequisites: ENG 2001 or its equivalent and admission to the professional sequence or consent of the BSW Program Director. Corequisite or prerequisite: ECO 2030. (WRITING)

SW 3500. Independent Study (1–4).F;S.

SW 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

SW 3530–3549. Selected Topics (1–4). On Demand.

Such topics as social work in health and mental health and social work practice with disabilities provide opportunities for attention to special areas of practice and specific populations.

SW 3850. Social Work Research Methods I (3).F;S.

An introduction to a scientific approach to building knowledge and skills in research and the evaluation of practice. The course will focus on understanding the interconnections between research and social work practice, and the role that social work core values play in research. Ethical conduct as a social work researcher and evaluator will also be covered. Prerequisite: admission to the professional sequence or consent of the BSW Program Director. (NUMERICAL DATA; COMPUTER) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

SW 3870. Social Work Research Methods II (4).F;S.

This course builds on the learning and skills developed in SW 3850: Social Work Research Methods I. In this course, students will collect, analyze and interpret data for social work research. Students will also develop the skills needed to conduct evaluations of practice with individuals, families, groups and communities. Ethical conduct as a social work researcher and evaluator will be reinforced. A one hour data analysis lab is part of this course. Prerequisite: SW 3850. (NUMERICAL DATA) (ND Prerequisite: passing the math placement test or successful completion of MAT 0010.)

SW 4000. Social Work Practice with Individuals and Families (3).F;S.

This course provides the opportunity for students to learn a beginning base of practice theory with individuals and families, utilizing an ecological, holistic perspective. Focus is on basic values, concepts and processes essential to generalist social work practice. Attention is given to assessment, goal setting, contracting, evaluation and differential intervention planning. Prerequisite: admission to the professional sequence or consent of the BSW Program Director. (WRITING)

SW 4002. Competencies for Child Welfare (3).F;S.

This course provides the student the opportunity to learn about the roles of a social worker in public child welfare and the basic competencies necessary to work within North Carolina's public child welfare system. The course also focuses on issues of child maltreatment, child abuse and neglect identification, needs of children and families, and policies and procedures, such as assessments, in-home services, out-of-home placement, and adoptions. The course is required for BSW students seeking to complete a field placement in public child welfare, along with other BSW course requirements. Prerequisite or corequisite: SW 4365 and admission to the professional sequence or consent of the BSW Program Director.

SW 4010. Social Work Practice with Groups (3).F;S.

Applications of social work knowledge and skills to social work practice with groups. The course will prepare students to engage in group work at micro and mezzo practice levels helping groups as well as individuals within groups. Key concepts, principles, theories, methods, and skills necessary for competent group social work practice will be covered, as well as skills necessary for group social work practice with diverse populations. Prerequisite: admission to the professional sequence or consent of the BSW Program Director. (WRITING)

SW 4020. Social Work Practice with Communities and Organizations (3).F;S.

Applications of social work knowledge and skills to intervention with communities and organizations. This course will teach students to effectively distinguish between micro and macro problems, to assess community and organizational needs and to develop and implement effective macro interventions with neighborhoods, communities, and social agencies. The course provides a conceptual framework for community organization and organizational practice. Prerequisite: admission to the professional sequence or consent of the BSW Program Director.

SW 4210. Social Work and the Law (3).On Demand.

Students will develop an understanding of the basic legal principles and procedures relevant to social work practice focusing on the impact of the legal system on social work practice. The course will emphasize the development of critical thinking skills necessary for addressing complex legal and ethical dilemmas. Students will develop social work practice knowledge and skills at both the micro and macro levels. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4220. Social Work Practice and Substance Abuse (3).On Demand.

Students will gain knowledge and skills relevant to the field of substance abuse, mental health issues, and evidence-based treatments. The course focus is how these issues affect work with social work clients. The bio-psycho-social-cultural-spiritual model of addictions and mental health will be used as the framework to cover topics including theories of addiction, mental health, and treatments. Students will develop social work practice knowledge and skills at both the micro and macro levels. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4240. Social Work Practice in Health Care (3).On Demand.

This course is an introductory seminar on contemporary social work practice in health care settings. It provides an evidence-based overview of the social, environmental, and political contexts of health problems as well as theories and interventions to facilitate both prevention of and coping with health problems. This course offers students a foundation for both social work practice and policy and program development in health care. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4250. Spirituality, Religion, and Secularism in Social Work (3).On Demand.

Students will examine the role of spirituality, religion, and secularism in social work practice, with a focus on developing an appreciation of differences, and learning to manage conflicts between personal values and professional practice. Topics include the role of faith-based organizations in providing social services and the development of knowledge and skills for both micro and macro practice. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4270. School Social Work (3). On Demand.

Study of the role and competencies of the school social worker as a member of the pupil personnel team in the U.S. educational system. Social work practice in the school setting with students, their families and communities, will be examined. The course will focus on addictions, disabilities, pregnancy, poverty, and serious behavioral difficulties. Discussion of current issues and reforms in education will also be included. Prerequisite: junior standing or consent of the BSW Program Director.

SW 4280. Social Work Issues in Developmental Disabilities (3). On Demand.

This course provides an opportunity for students to better understand the unique challenges of individuals with developmental disabilities as well as to learn about the ways in which support services adapt to meet these challenges. The course utilizes a life span approach to increase awareness and sensitivity about the variety of issues an individual with a developmental disability and their family may encounter. Prerequisite: admission to the professional sequence or consent of the BSW Program Director.

SW 4365. Social Work Practice with Children and Families (3).On Demand.

Uses an ecological framework to develop understanding of diverse family systems. Challenges faced by families over the life cycle will be studied, with an emphasis on the influence of the communities, cultures, organizations, and institutions with which families engage. Students will develop social work practice knowledge and skills at both the micro and macro levels. The course is a prerequisite for BSW students seeking to complete a field placement in public child welfare. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4510. Social Work Honors Thesis (3).On Demand.

Independent study and research for a social work thesis or project. Directed and graded by a faculty member in the Department of Social Work. Enrollment is by invitation or application only.

SW 4555. Death, Dying, and Living (3).On Demand.

An examination of how dying, death, and grief are experienced, including how support can be given through helping relationships to those who are dying or experiencing bereavement. Consideration will be given to the issues of euthanasia, suicide, body disposition, living wills, and the relationship of death to life. Students will have the opportunity to explore personally the meaning of death, other experiences of loss, and the quality of life. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4565. Human Sexuality and Affectional Relationships (3).On Demand.

Students will study sexuality and affectional relationships across the life span. Understanding of biological, psychological, sociological, and affectional perspectives will be developed through mature and respectful collegial discourse. Students will develop knowledge and skills for micro and macro practice related to sexual issues and relationship status across diverse populations. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director.

SW 4630. Programs and Services for Older Adults (3).F.

This course focuses on both policy and practice issues related to services for older adults. Drawing on research from both sociology and social work, the long-term impact of an aging society on social institutions as well as relevant modes of practice in addressing the needs of the older population are emphasized. Prerequisite for social work majors taking the course for elective credit: admission to the professional sequence or consent of the BSW Program Director. (CROSS-DISCIPLINARY)

SW 4650. Social Work Field Instruction (12).F;S.

Field education is systematically designed, supervised, coordinated, and evaluated based on criteria by which students demonstrate the achievement of program competencies. Students will spend 440 hours in an agency setting and they will connect the theoretical and conceptual contribution of the classroom with the practical world of the practice setting. Close professional supervision will be provided. Students will complete written assignments relating practice to research, analysis of agency policies and relationships to regional, state, and national policies, evaluation of practice, and other assignments as required by the field instructor. Graded on an S/U basis. Corequisite: SW 4690. Prerequisites: completion of all social work required courses and cognate courses and permission of the Field Director.

SW 4690. Senior Seminar: Issues and Ethics for Field and Profession (3).F;S.

GEN ED: Capstone Experience

This seminar integrates academic concepts and theory with the realities of social work practice that students experience in field settings, and explores and synthesizes contemporary professional issues. Corequisite: SW 4650. (SPEAKING)

The Hayes School of Music

The Mariam Cannon Hayes School of Music (MUS)

William L. Peltó, Dean

Jay C. Jackson, Associate Dean

Joseph L. Amaya

Hiu-Wah Au

Nancy E. Bargerstock

Jon P. Beebe

Joby R. Bell

Christopher J. Blaha

Andrea L. Cheeseman

Robert J. Falvo

Gabriel Fankhauser

William G. Harbinson

Stephen M. Hopkins

Douglas G. James

Scott D. Kallestad

Eric E. Koontz

Christine P. Leist

Drew C. Leslie

Kenneth P. Lurie

Victor N. Mansure

Keith D. McCutchen

Cathy H. McKinney

Harold V. McKinney

Scott R. Meister

Douglas E. Miller

Susan W. Mills

Randall D. Outland

Chung H. Park

Julia A. Pedigo

Priscilla P. Porterfield

Rodney T. Reynerson

Kevin Richardson

Karen L. Robertson

S. Elizabeth Rose

John S. Ross

Lisa A. Runner

Nancy A. Schneeloch-Bingham

Laurie R. Semmes

Bair D. Shagdarón

E. Reeves Shulstad

Jennifer S. Snodgrass

James M. Stokes, Jr.

Kim L. Wangler

Todd T. Wright

Scott D. Wynne

The Hayes School of Music is a full member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The Hayes School of Music sees as its objective the development of those elements which relate to teaching, creation, business and appreciation of music, and to the use of music as a healing tool. The teaching objective is partially realized through those curricula leading to state licensure in either general music education, choral music education, or instrumental music education, and performance, and through the undergraduate curricula designed to accommodate those who desire to be private studio teachers or church musicians. The creative objective is satisfied by any of the performance programs along with those opportunities which are available for prospective composers. The business objective relates to those who desire to combine music with the numerous aspects of the music business. The healing potential of music is explored through therapeutic applications of the art in a variety of clinical settings. The school also makes every effort to fulfill its role as the prime purveyor of music for the University and the surrounding community by presenting numerous performances by soloists and ensembles along with music courses of a general nature which may be of interest to the non-musician.

NOTE: *Although the requirement for most degree programs at Appalachian can be met within the minimum of 122 semester hours, the student should be aware that certain programs of study require additional hours. Students are advised to check with the department of their intended major early in their studies. Meeting graduation requirements is the student's responsibility.*

Admission Requirements

The Hayes School of Music offers the Bachelor of Science, Bachelor of Music, and the Master of Music degrees. In cooperation with the Reich College of Education, it offers the Bachelor of Music in music education.

To be admitted to the Hayes School of Music as a candidate for a baccalaureate degree, a student must have:

1. Completed at least 30 semester hours
2. A grade-point average of at least 2.0, which must be maintained
3. Obtained credit for ENG 1000 or an equivalent course and obtained credit for or be currently enrolled in UCO 1200 or an equivalent course
4. Auditioned and been accepted by the Dean of the Hayes School of Music as a major
5. Students moving from University College to the degree granting school must see the dean or assistant/associate dean of the Hayes School of Music for the purpose of being assigned a faculty advisor

A student who is a candidate for a teaching license must be admitted to the teacher education program by the chair of the Department of Curriculum and Instruction.

Advisement

The Hayes School of Music considers student advisement one of its most important responsibilities and priorities. Through the dean's office, each student is assigned a faculty advisor who is committed to offering accurate and appropriate advisement. The student is encouraged to make regular appointments with the advisor. The Hayes School of Music provides a graduation check for all majors during the semester immediately preceding the student's last semester. We urge all students in the School of Music to avail themselves of this service. Meeting graduation requirements is the student's responsibility.

The Hayes School of Music

Independent Study

Students intending to pursue independent study in the Hayes School of Music are reminded of the existence of deadline dates for applying for independent study. For information and details pertaining to independent study procedures established by the school, contact the dean or assistant dean of the Hayes School of Music.

Pass-Fail

Students majoring in programs in the Hayes School of Music are not permitted to take any course on the pass/fail option that is a general education, major, minor, or professional requirement.

Bachelor of Music Degree

In order for a student to earn the Bachelor of Music degree in the Hayes School of Music, the following requirements must be met.

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian
2. Completion of general education requirements
3. Completion of a major in one of the following fields: Music Education; Music Therapy; Music Performance: Composition/Theory, Sacred Music, Instrument or Voice
4. A student must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eighteen semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.
Specific requirements for each major preface the list of courses offered by the School of Music.
5. Completion of professional education courses (music education majors only)
For the requirements in teacher education, refer to the Department of Curriculum & Instruction in this catalog.
6. Completion of electives to total at least 122 semester hours
7. Completion of residency requirements
8. Compliance with regulations concerning the settlement of all expense accounts
9. Recommendation of the faculty

Bachelor of Science Degree

In order for a student to earn a Bachelor of Science degree in the Hayes School of Music, the following requirements must be met.

1. Completion of at least 125 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements
3. Completion of a major in the following field: Music Industry Studies
A student must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eighteen semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.
Specific requirements for each major preface the list of courses offered by the Hayes School of Music.
4. Completion of a minor consisting of 20 semester hours. Transfer students must complete at least nine semester hours in their minor at Appalachian. *Specific requirements for each minor preface the list of courses offered by the Hayes School of Music.*
5. Completion of electives to total 125 semester hours
6. Completion of residency requirements
7. Compliance with regulations concerning the settlement of all expense accounts
8. Recommendation of the faculty

Internships

Opportunities are available for students to become involved in internships associated with the Hayes School of Music. These internships provide students with on-the-job experiences in many areas of endeavor and allow them to earn academic credit which is applicable toward their degree. Students interested in pursuing this valuable educational opportunity should contact either their advisor or the student internship office. Consult the catalog statement which describes the student internship program.

Entrance Requirements for Freshmen and Transfer Students

An audition in the principal or major performing area is required of all incoming music majors. Should the appropriate performance level not be met, those students who are deficient will be required to do remedial applied music study until the proper level has been attained. Students interested in pursuing degrees in the areas of music therapy, composition/theory, music industry studies, and music education have additional admission requirements. For further information concerning these requirements, consult the Area Coordinator in the Hayes School of Music.

The Hayes School of Music

Entrance Requirements for Graduate Students

As appropriate to their individual program choice, all entering graduate music majors will demonstrate by examination their understanding and achievement levels in music theory, music history and literature, applied performance, conducting and score reading, and music education where it applies. Any deficiency noted may require courses or individual study in the area of the deficiency prior to admission to candidacy for the degree.

Degrees

The Hayes School of Music offers the Bachelor of Science, Bachelor of Music and Master of Music degrees.

The Bachelor of Music degree in Music Education (552*/13.1312)[T] offers the following concentrations:

Choral Music Education (K-12) (552D)[T]

The program of study is available at: www.programsofstudy.appstate.edu/music-education-bm-choral-music-education-k-12-552d-2012-2013

General Music Education (K-12) (552E)[T]

The program of study is available at: www.programsofstudy.appstate.edu/music-education-bm-general-music-education-k-12-552e-2012-2013

Instrumental Music Education (K-12) (552C)[T]

The program of study is available at: www.programsofstudy.appstate.edu/music-education-bm-instrumental-music-education-k-12-552c-2012-2013

**NOTE: Reich College of Education policy states: "All proficiencies and professional education courses including reading and methods courses must have been completed satisfactorily with a grade of 2.00 ("C") or better." Courses affected by this policy include: MUS 1028, MUS 1029, MUS 1030, MUS 1031, MUS 1032, MUS 1035, MUS 1036, MUS 1037, MUS 1038, MUS 1040, MUS 1041, MUS 1045, MUS 1046, MUS 2030, MUS 2034, MUS 2037, MUS 2038, MUS 2040, MUS 2041, MUS 3020, MUS 3021, MUS 3022, MUS 3031, MUS 3032, MUS 3033, MUS 3034, MUS 3040, MUS 4030, MUS 4610.*

All students enrolled in teacher education programs are required to meet licensure-criteria as set by the North Carolina State Department of Public Instruction prior to their graduation from Appalachian State University. For requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Music degree in Performance (554*/50.0903) is offered in the following concentrations:

Composition and Theory (554C)

The program of study is available at: www.programsofstudy.appstate.edu/music-performance-bm-composition-and-theory-554c-2012-2013

Instrument (554E-I, 554K-R, 554T-X, and 554Z)

The program of study is available at: www.programsofstudy.appstate.edu/music-performance-bm-instrument-554-2012-2013

Sacred Music (554B)

The program of study is available at: www.programsofstudy.appstate.edu/music-performance-bm-sacred-music-554b-2012-2013

Voice (554Y)

The program of study is available at: www.programsofstudy.appstate.edu/music-performance-bm-voice-554y-2012-2013

The Bachelor of Music degree in Music Therapy (553A/51.2305)

The program of study is available at: www.programsofstudy.appstate.edu/music-therapy-bm-553a-2012-2013

The Bachelor of Science degree in Music Industry Studies (557A/50.1003)

The program of study is available at: www.programsofstudy.appstate.edu/music-industry-studies-bs-557a-2012-2013

Minor in Music (551/50.0901) (16 semester hours)

The program of study is available at: www.programsofstudy.appstate.edu/music-minor-551-2012-2013

The Hayes School of Music

Master of Music Degrees

The Hayes School of Music offers the Master of Music degree in Music Education with concentrations in Band Directing, Choral Directing, and Music Teaching; the Master of Music with a concentration in Performance (vocal or instrument or composition); and the Master of Music Therapy degree. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin*.

Applied Music

Applied music majors and principals are required to take a jury examination before the faculty in their applied area at the end of each semester. The jury functions as an advisory group as far as the applied music grade is concerned. Students will also be evaluated as to the level they have attained at the end of each semester. The level of achievement required in order to complete an applied music major or principal in the various areas is as follows:

Music Industry Studies	Level II
Music Education	Level IV
Music Therapy	Level III
Performance	
Sacred Music	Level VI
Composition and Theory	Level IV
Vocal or Instrumental	Level VIII

All music majors in the education and performance curricula will further demonstrate satisfactory proficiency in their major or principal performing medium by presenting, during the senior year, either an individual recital or a joint program with no more than three participants. Students pursuing the sacred music, vocal, or instrumental performance degree are required to present a recital during the junior year.

Students presenting recitals which are used to fulfill departmental requirements must be students of applied music faculty members in the Hayes School of Music at Appalachian State University at the time of the recital.

Piano Proficiency

Piano proficiency is required of music education, music therapy, vocal performance, and composition/theory majors. Proficiency is demonstrated through satisfactory completion of the piano proficiency examination independently or as the final examination in MUS 2041 (Advanced Piano Class II). Students who have not satisfied the piano proficiency requirement should be enrolled in class piano the first semester of enrollment in the Hayes School of Music and remain enrolled in the class piano sequence until proficiency requirements are satisfied. Proficiency must be completed prior to student teaching (music education), internship (music therapy), and graduation (vocal performance, composition/theory).

Admission to the Music Education degree program

In order to be admitted to the Music Education degree program, a student will present a portfolio to the Music Education Curriculum Committee during the fourth semester of study. The portfolio will contain the following documentation:

1. Letter of application
2. Current resume
3. Current transcript
 - a. Minimum overall GPA of 2.0
 - b. Minimum GPA in Music of 2.5
4. Completion of Applied Music Level II
5. Statement: "Why I Want to Become a Music Educator."
6. Summary and documentation of other professional involvements (private teaching, ensemble coaching, rehearsal assistant, providing assistance at music clinics, sacred music positions and experiences, professional performances, etc.)
7. Written documentation of a minimum of 6 (six) observations of music classes at the K-12 level (as determined by the Music Education Curriculum Committee).

Students must be admitted to the Music Education degree program prior to enrolling in MUS 3020, MUS 3021, MUS 3022, MUS 3031/CI 3031, MUS 3032/CI 3032, MUS 3033/CI 3033, MUS 3034, MUS 3037, MUS 3038, MUS 3902, and MUS 3903.

Recitals and Concerts

The Hayes School of Music presents a large and varied number of solo and ensemble programs through the year. Other programs are regularly brought to the University through the Performing Arts Series. Students are required to attend ten recitals/concerts per semester. All music majors are required to register for and successfully complete MUS 1500 (Performance Seminar) each semester in which they are enrolled as a major.

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Ensembles

Music majors, whether declared or proposed majors, are required to be enrolled in and successfully complete an appropriate ensemble each semester in which they are full-time students. No music major will be allowed to participate in more than three ensembles in any semester in which they are full-time students.

Courses of Instruction in Music (AMU, MUS)

This catalog reflects fall and spring semester offerings. Go to www.summerschool.appstate.edu for courses offered in summer terms. (For an explanation of the prefixes used in the following courses, see the listing of Course Prefixes.)

APPLIED MUSIC (AMU)

AMU 0001-0025; 2001-2025; 4001-4025; 6001-6025 (1-4).F;S.

One or two 30-minute individual lessons or equivalent in individual and/or class lessons and four practice hours per week for each semester hour credit. **Additional fee (Summer Term)**.

AMU 3900. Junior Recital (2-4).F;S.

Individual lessons in the principal performing medium leading to a public recital. Six practice hours per week for each semester hour credit. **Additional fee (Summer Term)**.

AMU 4900. Senior Recital (2-4).F;S.

GEN ED: Capstone Experience

A public recital serving as the culminating experience of applied music study in the principal performing medium. Six practice hours per week for each semester hour credit. **Additional fee (Summer Term)**.

MUSIC (MUS)

MUS 0900. Introduction to Music Theory (3).F.

An introduction to music theory and requisite aural skills for music majors. Course counts as three hours credit toward course load and full-time student eligibility but does not count toward hours required for graduation (See "Institutional Credit"). Graded on an S/U basis.

MUS 1000. Elements of Music Theory (3).F;S.

An introduction to music theory for non-music majors. This course carries credit toward the music minor and elementary education major but no credit toward music degrees.

MUS 1001. Music Theory I (2).F;S.

A course in the fundamentals of music integrating basic materials and skills. The study of diatonic harmony is approached through part writing and analysis. Lecture and demonstration three hours. Prerequisite: successful completion of MUS 0900 or passing grade on entrance test.

MUS 1002. Music Theory II (2).F;S.

A continuation of Music Theory I, completing the study of diatonic harmony and introducing chromatic harmony. Analysis, partwriting and other written skills are integrated. Lecture and demonstration three hours. Prerequisite: MUS 1001 and MUS 1007 with a minimum grade of "C-" (1.7) in each course.

MUS 1003. Contemporary Musicianship I (3).F.

A study of music skills necessary for the Music Industry Studies major involving written, aural, and analytical perspectives. Lecture three hours.

MUS 1007. Aural Skills I (2).F;S.

A course for the development of fundamental aural skills. The study of music fundamentals is approached through sight singing and ear training. Aural skills are developed through computer-assisted instruction. Lecture and demonstration two hours. Prerequisite: successful completion of MUS 0900 or passing grade on entrance test. (COMPUTER)

MUS 1008. Aural Skills II (2).F;S.

A continuation of Aural Skills I. Sightsinging and ear training of rhythmic patterns, diatonic melody and diatonic harmonic progression. Aural skills are developed through computer-assisted instruction. Lecture and demonstration two hours. Prerequisites: MUS 1001 and MUS 1007 with a minimum grade of "C-" (1.7) in each course. (COMPUTER)

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MUS 1028. Brass Class: Trumpet, Trombone, Euphonium, Tuba (1).F;S.

A study of the pedagogical techniques and methods used in teaching trumpet, trombone, euphonium and tuba in the public school environment. Lecture and demonstration two hours.

MUS 1030. Strings Class (1).F;S.

A study of the pedagogical techniques and methods used in teaching violin, viola, cello, and bass in the public school environment. Lecture and demonstration two hours.

MUS 1032. Percussion Class (1).F;S.

A study of the pedagogical techniques and methods used in teaching standard percussion instruments in the public school environment. Lecture and demonstration two hours.

MUS 1035. Woodwinds Class I: Flute, Clarinet, Saxophone (1).F;S.

A study of the pedagogical techniques and methods used in teaching flute, clarinet and saxophone in the public school environment. Lecture and demonstration two hours.

MUS 1036. Woodwinds Class II: Oboe, Bassoon, Horn (1).F;S.

A study of the pedagogical techniques and methods used in teaching oboe, bassoon, and horn in the public school environment. Lecture and demonstration two hours.

MUS 1037. Voice Class I (1).F;S.

Acquisition of vocal technique essential for the practicing music educator, music therapist, or sacred musician and development of a repertoire of traditional, ethnic, folk, and popular songs. Lecture-demonstration one hour, laboratory one hour.

MUS 1038. Voice Class II (1).S.

Continued acquisition of vocal technique essential for the practicing music educator or sacred musician and continued development of a repertoire of traditional, ethnic, folk, and popular songs. Lecture-demonstration one hour, laboratory one hour. Prerequisite: MUS 1037.

MUS 1040. Piano Class I (1).F;S.

Group instruction in the fundamental principles of piano technique. Lecture-demonstration one hour, laboratory one hour.

MUS 1041. Piano Class II (1).F;S.

Group instruction in piano technique. Lecture-demonstration one hour, laboratory one hour. Prerequisite: MUS 1040 with a minimum grade of "C" (2.0).

MUS 1042. Guitar Class I (1).F;S.

Group instruction in the fundamental principles of playing the nylon string classical guitar. Lecture and demonstration two hours.

MUS 1043. Guitar Class II (1).S.

Group instruction in intermediate level nylon string classical guitar playing. Lecture and demonstration two hours. Prerequisite: MUS 1042 or equivalent background.

MUS 1045. Diction I (1).S.

The application of the International Phonetic Alphabet to the principles and practice of Italian, Latin and English pronunciation as applied to vocal music with regard to performance and teaching. Lecture one hour, laboratory one hour. (SPEAKING)

MUS 1046. Diction II (1).F.

The application of the International Phonetic Alphabet to the principles and practice of French and German pronunciation as applied to vocal music with regard to performance and teaching. Prerequisite: MUS 1045 or approval of the instructor. Lecture one hour, laboratory one hour. (SPEAKING)

MUS 1052. Functional Guitar I (1).F.

Acquisition of basic guitar accompanying and group music leadership skills essential for the practicing music therapist. Development of a repertoire of traditional, folk and popular songs. Lecture and demonstration two hours. Music Therapy majors only or permission of the instructor.

MUS 1053. Functional Guitar II (1).S.

Acquisition of intermediate guitar accompanying and group music leadership skills essential for the practicing music therapist. Development of a repertoire of traditional, folk, and popular songs. Lecture and demonstration two hours. Prerequisite: MUS 1052

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with a minimum grade of "C" (2.0) or equivalent competence. Music Therapy majors only or permission of the instructor.

MUS 1100-MUS 1139 - Course descriptions for "MUS Performing Groups" are listed after MUS 4901.

MUS 1420. Introduction to Music Industry Studies (3).F.

Lectures and discussions with faculty and representatives from the music industry to familiarize students with the scope of this field including career options. Lecture three hours. For Music Industry Studies majors only or by permission of the instructor.

MUS 1426. Audio Fundamentals (2).S.

A non-technical course for all students of the University dealing with the basic properties of sound, acoustic principles and basic electrical theory. An introduction to recording and playback components. Lecture two hours.

MUS 1500. Performance Seminar (0).F;S.

A series of seminars in solo and ensemble recitals and concerts covering all aspects and problems of public appearances. Required of all music majors. Graded on an S/U basis. Laboratory one hour.

MUS 2001. Music Theory III (2).F;S.

A continuation of Music Theory II, completing the study of chromatic harmony and including the study of twentieth century harmonic practice. Lecture and demonstration two hours. Prerequisites: MUS 1002 and MUS 1008 with a minimum grade of "C-" (1.7) in each course.

MUS 2002. Music Theory IV (2).F;S.

A continuation of Music Theory III. Counterpoint, contrapuntal forms, instrumentation and elementary orchestration are studied. Lecture and demonstration two hours. Prerequisites: MUS 2001 and MUS 2007 with a minimum grade of "C-" (1.7) in each course.

MUS 2004. Liturgies (2).F. Alternate years.

A study of the history and current practices of worship in the Jewish, Eastern Orthodox, Roman Catholic, and Protestant traditions. Includes the study of occasional services such as Lessons & Carols, Tenebrae, and Evensong. Lecture two hours.

MUS 2007. Aural Skills III (1).F;S.

A continuation of Aural Skills II, completing the development of sightsinging and eartraining skills involving diatonic melody, diatonic harmonic progression, and rhythmic patterns. Aural skills are developed through computer-assisted instruction. Lecture and demonstration two hours. Prerequisites: MUS 1002 and MUS 1008 with a minimum grade of "C-" (1.7) in each course. (COMPUTER)

MUS 2008. Aural Skills IV (1).F;S.

A continuation of Aural Skills III, completing the development of sightsinging and eartraining skills involving chromatic melody, chromatic harmonic progression and advanced rhythmic patterns. Advanced sightsinging skills are developed. Aural skills are developed through computer-assisted instruction. Lecture and demonstration two hours. Prerequisites: MUS 2001 and MUS 2007 with a minimum grade of "C-" (1.7) in each course. (COMPUTER)

MUS 2009. Sacred Music Literature and Materials (3).S. Alternate years.

A survey of sacred music literature and materials, with emphasis on congregational hymnody and small-form choral anthems. Lecture three hours.

MUS 2010. Contemporary Musicianship II (3).S.

An expansion of the aural skills and theoretical knowledge presented in MUS 1003. The study of basic music theory concepts, integrated with aural skills (sight singing, rhythmic reading, melodic and rhythmic dictation.) Lecture three hours. Prerequisite: MUS 1003.

MUS 2011. Analyzing Style and Form: Music (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Analyzing Style and Form")

A nontechnical course for students with little or no musical background. Emphasis is placed on the style and form of music as perceived by the listener. Lecture three hours. (MULTI-CULTURAL) (CORE: HUMANITIES)

MUS 2014. Jazz Music in American Society (3).F;S.

GEN ED: Fine Arts Designation; Historical and Social Perspective (Theme: "This American Life")

Jazz may be the United States' only original contribution to music. Due to its comparatively recent emergence as a recognized art form, a great deal of confusion exists as to the meaning, origins, development, and the place of jazz relative to other areas of music. This course will define jazz as precisely as possible and show its evolution in the historical background of the United States. Lecture three hours. (CORE: HUMANITIES)

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MUS 2015. History of Rock Music (3).F;S.

GEN ED: Fine Arts Designation; Historical and Social Perspective (Theme: "Revolutions and Social Change")

Study of musical groups, soloists and styles related to the evolution of this genre, and on related social, historic and political events. Pre-rock influences and rock music from the late 1940s through significant developments of the late twentieth century. Lecture three hours. (CORE: HUMANITIES)

MUS 2016. Appalachian Music (3).F;S.

GEN ED: Historical and Social Perspective (Theme: "Appalachia")

A survey of Appalachian music including both instrumental and vocal styles, older traditions and newer regional forms. Students will have opportunities to develop musical skills through hands-on class projects and activities. Lecture three hours. (Same as AS 2016.) (CORE: HUMANITIES)

MUS 2017. Survey of Musical Theatre (3).SS.

A survey of musical theatre, tracing the development from its European roots to contemporary productions. Emphasis is on viewing and listening to productions. Video tapes and live performances are incorporated as available. (CORE: HUMANITIES)

MUS 2018. Introduction to World Music (3).F;S.

GEN ED: Fine Arts Designation; Local to Global Perspective (Themes: "Performance of Culture" and "Identity, Culture and Media")

A survey of musics representing international cultures. Emphasis is placed on the role of music in various life experiences. Lecture three hours. (MULTI-CULTURAL) (CORE: HUMANITIES)

MUS 2019. Country Music Survey (3).On Demand.

A survey of country music from its beginnings in the 1920s until the present. Lecture three hours. (CORE: HUMANITIES)

MUS 2022. Cultivating Creative Expression Through Music (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Cultivating Creative Expression")

Students will create works of music using various media, reflecting on the creative process, the influence of culture, and the dynamic and reciprocal interactions among the artist, instructor, and student. Lecture/studio three hours. (CORE: HUMANITIES)

MUS 2023. Music and Gender (3).S.

GEN ED: Fine Arts Designation; Historical and Social Perspective (Theme: "Cultural Diversity")

An investigation of the social constructions of gender and how they are reflected in music. Topics will include how gender constructions operate in compositional, performance and teaching practices.

MUS 2024. Music Methods for the Classroom Teacher (3).F;S.

The music elements learned in MUS 2022 (Cultivating Creative Expression Through Music) will be used in studying materials and methods in the elementary classroom. A variety of musical activities will be presented which are suitable for all ages of elementary children. Observation and participation in pre-school and public school settings are required. Prerequisite: MUS 2022. Lecture three hours.

MUS 2030. Instrumental Playing Techniques (for general and choral music education majors) (1).S. Alternate years.

Group instruction in the fundamental principles of playing on representative orchestral instruments in each of the following categories: woodwind, brass, percussion and string. Lecture and demonstration two hours.

MUS 2034. Introduction to Teaching Music (1).F;S.

Introduction of teaching music in the schools within the contexts of general, band, choral, and orchestral music education. Includes basic strategies for teaching students with disabilities and within a multi-cultural context. Public school music observations are required. Lecture one hour, laboratory one hour. Prerequisites or corequisites: MUS 1002 and MUS 1008.

MUS 2037. Voice Class III (1).F. Alternate years.

A continuation of first year voice class with appropriate vocal literature adapted to each student's needs and progress. Lecture and demonstration two hours. Prerequisite: MUS 1038.

MUS 2038. Voice Class IV (1).S. Alternate years.

Continued study of literature and attention to the specific needs of each student. Lecture and demonstration two hours. Prerequisite: MUS 2037.

MUS 2040. Piano Class III (1).F;S.

Group instruction in piano technique. Lecture-demonstration one hour, laboratory one hour. Prerequisite: MUS 1041 with a minimum grade of "C" (2.0).

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MUS 2041. Piano Class IV (1).F;S.

Group instruction in piano technique, culminating in a piano proficiency examination. Lecture-demonstration one hour, laboratory one hour. Prerequisite: MUS 2040 with a minimum grade of "C" (2.0).

MUS 2045. Jazz Improvisation I (2).F.

A fundamental study and application of jazz theory, including chord symbols, chord progressions and their function, and the usage of chord scales for melodic development in jazz improvisation. All students taking this course must play melodic instruments. Lecture and demonstration two hours. Prerequisites: MUS 1002 and MUS 1008.

MUS 2046. Jazz Piano (1).F;S.

Group instruction in the fundamental principles of learning to read chord symbols for lead sheet application and for developing basic improvisational skills for use over common jazz forms such as the blues. Lecture and demonstration one hour. Prerequisite: AMU 2001 or MUS 1041 or permission of the instructor.

MUS 2050. Introduction to Music Therapy (2).F.

An experiential survey of the field of music therapy and the use of music in the treatment of persons with special needs. Lecture and demonstration two hours.

MUS 2051. Music Therapy Clinical Skills (1).S.

Introduction to clinical skills required of the practicing music therapist, including behavior observation, clinical documentation, and behavior change. Prerequisite: MUS 2050.

MUS 2070. Music in Special Education (2).F.

An introduction to the role of music, music education, and music therapy for students with special needs. Characteristics, strengths, needs, and strategies for children and youth having one or more disabling conditions. Lecture and demonstration two hours.

MUS 2071. Music, the Brain, and Neurological Disorders (2).S.

An introduction to neurology and the neuropsychology of music. Experiential and didactic exploration of music therapy assessment and interventions for adults with neurological disorders. Lecture and demonstration two hours. Prerequisites: MUS 2050 with a minimum grade of "B-" (2.7), and MUS 2051 with a minimum grade of "C" (2.0). Music Therapy majors must be enrolled concurrently in MUS 3900.

MUS 2072. Orchestration (2).S.Alternate years.

The study of instrumental transposition, instrumentation and orchestration. Lecture two hours. Prerequisites: MUS 1001 and MUS 1007 with a minimum grade of "C-" (1.7) in each course.

MUS 2420. Music Merchandising and Entrepreneurship (3).S.

GEN ED: Junior Writing in the Discipline (WID)

A core course for Music Industry Studies majors providing an in-depth exploration of music merchandising. Content will include music products manufacturing, wholesaling, retailing, music publishing and product services. Basic business concepts will be introduced as they relate to entrepreneurship opportunities in this field. Course delivery will include guest lecturers from the industry and field trips to appropriate businesses. Lecture three hours. Prerequisites: MUS 1420 and ENG 2001 or its equivalent. (WRITING; SPEAKING)

MUS 2426. Music Production and Recording I (3).F.

Lecture, demonstration and hands-on recording studio experience. Technical procedures and production approaches form the core of the course of study. Lecture three hours. Prerequisite: MUS 1426. For Music Industry Studies majors only. (WRITING; COMPUTER)

MUS 2445. Artist Management and Promotion (2).F.

The theory and practice of touring, booking, management, promotion and marketing of creative artists. Lecture two hours. Prerequisite: MUS 1420 or permission of the instructor.

MUS 2500. Independent Study (1-4).F;S.

MUS 2611. Music History and Style I (2).F.

GEN ED: Historical Studies Designation; Aesthetic Perspective (Theme: "Traditions and Innovations")

An overview of the stylistic tendencies throughout Western music history and an examination of the development of Western notated music and musical style as revealed through studies of social influences, biographical figures, and notated musical scores from ancient times to the mid-seventeenth century. (MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/MUSIC MAJORS ONLY)

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MUS 2612. Music History and Style II (2).S.

GEN ED: Historical Studies Designation; Aesthetic Perspective (Theme: "Traditions and Innovations")

An examination of the development of Western notated music and musical style as revealed through studies of social influences, biographical figures, and notated musical scores from the mid-seventeenth century to the mid-nineteenth century. (WRITING; MULTICULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/MUSIC MAJORS ONLY)

MUS 2613. Survey of Western Music (3).F;S.

GEN ED: Fine Arts Designation; Aesthetic Perspective (Theme: "Social Change Through the Arts")

A survey of Western music from the Renaissance through the 20th century. Emphasis is placed on style and form of music as perceived by the listener. Lecture three hours. (CORE: HUMANITIES/MUSIC MAJORS ONLY)

MUS 2615. Music and Propaganda (3).S.Alternate years.

GEN ED: Fine Arts Designation; Local to Global Perspective (Theme: "Identity, Culture and Media")

This course is designed to examine ways in which music has historically been used internationally to enhance/intensify various aural and visual forms of propaganda. Although specific cases such as those in Nazi Germany, Communist China, and the Soviet Union are explored, the broader scope of the course also addresses the concepts of patriotism, promotion, protest, and manipulation.

MUS 2616. Cuban Music and Culture (3).S.Alternate years.

GEN ED: Fine Arts Designation; Local to Global Perspective (Theme: "Identity, Culture and Media")

This course is designed to explore the music of Cuba as it has both reflected and shaped culture throughout Cuban history from the pre-Columbian era to the early twenty-first century. Of particular interest is the evolution of Cuban music during the twentieth century as it was appropriated and propagandized for economic and political purposes, as well as the development of Cuban music video accessible via the internet.

MUS 2900. Apprenticeship in Instrument Repair (2).On Demand.

Students will participate as apprentices in the routine operation of a manufacturing or repair facility. Graded on an S/U basis.

MUS 2901. Practicum in Music Products Industry (2).On Demand.

Field experience in the music products industry. Practicum four hours. Prerequisites: MUS 2420 and permission of the instructor. Graded on an S/U basis.

MUS 3001. Form and Analysis (2).On Demand.

A detailed study of formal structure in music. Students are required to apply their skills and knowledge to comprehend (aurally and visually) musical structure in compositions of the common practice period. Lecture and demonstration three hours. Prerequisite: MUS 2002 with a minimum grade of "C-" (1.7). (WRITING)

MUS 3002. Music Theory V (2).F;S.

GEN ED: Junior Writing in the Discipline (WID)

A continuation of MUS 2002 (Music Theory IV). The study of common-practice forms is concluded. Twentieth-century compositional practices and techniques are studied. Prerequisites: MUS 2002 (Music Theory IV) and MUS 2008 (Aural Skills IV) with a minimum grade of "C-" (1.7) in each course; and ENG 2001 or its equivalent. (WRITING)

MUS 3003. Jazz/Pop Theory (2).S.Alternate years.

The practical application of jazz/pop theory in the creation, performance, and analysis of modern music focusing on arranging and composition techniques. Lecture two hours. Prerequisite: MUS 2002 or MUS 2010.

MUS 3007. Counterpoint (3).On Demand.

A comprehensive course in the fundamentals of 18th-19th Century counterpoint. Writing and analysis is stressed and required. Lecture three hours. Prerequisite: MUS 2002.

MUS 3010. Service Playing (2).On Demand.

Laboratory experience in playing services of worship including chant accompaniment, hymn playing, anthem accompaniment and simple improvisation. Advanced topics include figured-bass realization, modulation and open-score reading. Lecture two hours, laboratory one hour. Prerequisite: MUS 1002.

MUS 3020. Conducting (1).F.

Fundamentals of conducting technique and introduction to score reading. Lecture and demonstration two hours. Prerequisite: MUS 1002 or permission of the instructor, and admission to the music education degree program.

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MUS 3021. Instrumental Conducting Practicum (2).S.

Supervised conducting experience with an instrumental ensemble. Score preparation and rehearsal techniques. Lecture and practicum three hours. A minimum of five hours of rehearsal observations. Prerequisites: MUS 1002, MUS 3020, and admission to the music education degree program. (SPEAKING)

MUS 3022. Choral Conducting Practicum (2).S.

Supervised conducting experience with a choral ensemble. Score preparation and rehearsal techniques. Lecture and practicum three hours. A minimum of five hours of rehearsal observations. Prerequisites: MUS 1002, MUS 3020, and admission to the music education degree program. (SPEAKING)

MUS 3031. Band Techniques and Materials (2).S.

A survey of the materials and methods in teaching bands. Lecture two hours. Prerequisite: admission to the music education degree program. (Same as CI 3031.)

MUS 3032. Choral Techniques and Literature I (2).F.

A survey of the materials, methods and literature in choral teaching. Lecture two hours. Prerequisite: admission to the music education degree program. (Same as CI 3032.)

MUS 3033. Orchestral Techniques and Materials (2).S. Alternate years.

A survey of materials and methods employed in teaching orchestras. Prerequisite: admission to the music education degree program. Music Education (string) majors only. Lecture two hours. (Same as CI 3033.)

MUS 3034. Methods for Teaching General Music (3).F.

Methods and foundations for teaching elementary and secondary general music education will be presented. Public school field experiences are included in this course. Lecture two hours, laboratory two hours. Prerequisite: MUS 2034 and admission to the music education degree program. (Same as CI 3034.) (SPEAKING)

MUS 3037. General Music Pedagogy (2).S. Alternate years.

Detailed study of general music education pedagogy with emphasis on Orff-Schulwerk, Kodaly and Dalcroze methods for elementary general music classes. Lecture and demonstration two hours. Prerequisite: MUS 1037 and piano proficiency. Prerequisite or corequisite: MUS 2034 or permission of area coordinator.

MUS 3038. Choral Techniques and Literature II (2).S.

A continuation of the survey of the materials, methods and literature in choral teaching. Lecture two hours. Prerequisite: MUS 3032/CI 3032.

MUS 3040. Class Piano (1).S. Alternate years.

Provides the piano principal with those practical competencies which most directly relate to classroom musical activities such as improvisation, accompanying and related skills. Required of music education majors with a piano principal. Lecture and demonstration two hours.

MUS 3045. Jazz Improvisation II (2).S.

Advanced jazz improvisation. Further study and application of the jazz language for development of greater individual improvisatory skills. Lecture and demonstration two hours. Prerequisite: MUS 2045 or consent of the instructor.

MUS 3046. Tunes (2). On Demand.

A study of popular American dance music "standards" for proper execution of interpretation and performance style. In addition, formal structure will be studied. Alternate years. Lecture and demonstration two hours.

MUS 3052. Alexander Technique (1-2).F;S.

Exploration of the principles of balanced movement and flexible body usage through the study of Alexander Technique. Open only to music majors. May be repeated for credit.

MUS 3060. Functional Piano (1).S.

Acquisition of piano accompanying and group music leadership skills essential for the practicing music therapist and development of a repertoire of traditional, folk and popular songs. Lecture one hour, laboratory one hour. Prerequisites: MUS 1002, MUS 1008, and either MUS 1041 or AMU 2001. Music Therapy majors only or permission of the instructor.

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MUS 3061. Functional Music Therapy Techniques (1).S.

Focus on acquisition of selected functional music skills essential to the practicing music therapist, including creativity, group music leadership, movement techniques, Orff techniques, and arranging for various ages, abilities, and disabilities. Lecture one hour, laboratory one hour. Prerequisites: MUS 1002, MUS 1008 and MUS 2050. Music Therapy majors only or permission of the instructor.

MUS 3070. Developmental Music Therapy (2).F.

Theory, research and clinical skills related to music therapy with children and youth having one or more disabling conditions. Lecture and demonstration two hours. Prerequisites: MUS 2050 with a minimum grade of "B-" (2.7), and MUS 2051 and MUS 2070 with a minimum grade of "C" (2.0) in each course. Music Therapy majors must be enrolled concurrently in MUS 3900. (SPEAKING)

MUS 3072. Models of Music Therapy in Mental Health (2).F.

A study of theoretical and empirical foundations of music therapy in mental health. Major models of counseling and psychotherapy will be surveyed. Lecture and demonstration two hours. Prerequisites: MUS 2050 with a minimum grade of "B-" (2.7), and MUS 2051 with a minimum grade of "C" (2.0). Music Therapy majors must be enrolled concurrently in MUS 3900.

MUS 3073. Music Therapy Practice in Mental Health (2).S.

Experiential and didactic exploration of music therapy assessment and interventions for persons with mental disorders. Includes a systematic review of research-supported, music-based treatments for the most prevalent disorders. Lecture and demonstration two hours. Prerequisites: MUS 3072 with a minimum grade of "C" (2.0), and PSY 2212 or permission of the instructor. Music Therapy majors must be enrolled concurrently in MUS 3900.

MUS 3420. Music and Entertainment Industry (3).F.

A core course for Music Industry Studies majors providing in-depth exploration of the music and entertainment industry. Course content will include publication, copyrighting, contract writing, production, broadcasting, management promotion and the legal environment within the arts. The course will include a detailed research paper and a music industry simulation project requiring two oral presentations. The course will also include guest lecturers from the industry and field trips. Lecture three hours. Prerequisite: MUS 1420. (WRITING; SPEAKING)

MUS 3421. Music Marketing (2).F.

Practical experience in the promotion of a local artist. Content includes: designing a marketing strategy for the Internet and print media, developing a marketing campaign including press releases, and obtaining radio airplay. Lecture one hour, laboratory two hours. Prerequisite: MUS 2445.

MUS 3422. Music Management (2).S.

Practical experience managing a local artist. Content includes development of an identity statement, short-term and long-term goals, and a business plan. Lecture one hour, laboratory two hours. Prerequisite: MUS 2420. (CROSS-DISCIPLINARY)

MUS 3423. Legal Issues in the Music Industry (3).F.

A study of the legal aspects of the music business with an emphasis on record contracts and music publishing issues, especially as they are impacted by the Internet and other technological innovations. Other content includes licensing, royalty calculations, producing and management contracts, and creation of an independent record label. Lecture three hours. Prerequisite: MUS 2420. (WRITING)

MUS 3424. Record Company Administration (2).F;S.

Practical experience in connection with Split Rail Records. Experience in publishing, legal issues, artist and repertoire (A&R), finance, recording, and/or marketing will be offered. Lecture one hour, laboratory two hours. Prerequisite: MUS 2420 or permission of the instructor. May be repeated for a total credit of eight semester hours.

MUS 3426. Music Production and Recording II (3).S.

Operational techniques for the recording studio including (1) studio operations and maintenance skills, (2) familiarity with modern multi-track equipment and (3) application of acoustics and psychoacoustics. Lecture three hours. Prerequisite: MUS 2426. (WRITING; COMPUTER)

MUS 3500. Independent Study in Music (1-4).F;S.

MUS 3510. Honors Independent Study in Music (1-3).F;S.

Special research or projects which the honors student in music will pursue in lieu of required courses in the music curriculum.

MUS 3520. Instructional Assistance (1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Graded on an S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

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MUS 3530–3549. Selected Topics (1–4).F;S.

Variable content which may be repeated for credit. Topics will include special areas of music theory, music literature, and music education.

MUS 3611. Music History and Style III (2).F.

GEN ED: Historical Studies Designation; Aesthetic Perspective (Theme: "Traditions and Innovations")

An examination of the development of Western notated music and musical style as revealed through studies of social influences, biographical figures, and notated musical scores from the mid-nineteenth century to the present. (WRITING; MULTI-CULTURAL; CROSS-DISCIPLINARY) (CORE: HUMANITIES/MUSIC MAJORS ONLY)

MUS 3631. Survey of Song Literature (2).S. Alternate years.

This course is designated to gain a historical perspective of the "mainstream" song literature from the classical period to the present day, and to gain insight into each composer's style through listening and research. Prerequisites: MUS 2611 and MUS 2612. Voice majors only or permission of the instructor. This is a required course for performance majors in voice. Lecture two hours. (WRITING)

MUS 3632. Opera History and Literature (2).F. Alternate years.

Operatic development and literature from the Baroque to the present day. Representative works will be studied visually and aurally. Prerequisites: MUS 2611 and MUS 2612. Voice majors only or permission of the instructor. This is a required course for performance majors in voice. Lecture two hours.

MUS 3661. Electronic Music (3). On Demand.

A study of the principal concepts of sound generation and its reproduction utilizing a synthesizer. Included will be mixing, splicing, and the general use of magnetic tape recorders. Also the concept of digital sound will be explored utilizing a micro computer and a keyboard interface. Lecture and laboratory three hours.

MUS 3900. Music Therapy Practicum (1–3).F;S.

Supervised clinical experience in music therapy. Open only to Music Therapy majors. Prerequisites: MUS 2050 with a minimum grade of "B-" (2.7) and MUS 2051 with a minimum grade of "C" (2.0). May be repeated for credit. (WRITING)

MUS 3901. Church Music Field Work (2).F;S.

The student will be responsible for all or part of an established, professional music program in an organized church, subject to the approval of the professor. The professor and the supervising musician or pastor of the church will evaluate the student's work. Private or group conferences will be held with the professor, who will give guidance to the student. Prerequisite: MUS 3020. Graded on an S/U basis.

MUS 3902. Music Teaching Practicum (1).F.

Supervised field experience in general music education. Prerequisite: MUS 3037.

MUS 3903. Music Education Practicum (1).F;S.

Supervised field experience in instrumental or choral music education. Open only to Music Education majors. Prerequisites: successful completion of choral or instrumental music education proficiency requirements.

MUS 4004. Organization and Philosophy of Church Music (2).F. Alternate years.

Organizational principles of a comprehensive church music program, including a study of the philosophy of the art form of music as it relates to theological concepts. Lecture two hours.

MUS 4030. Band Literature (1).F.

A survey of band literature suitable for public school ensembles with special emphasis upon historical context and stylistic considerations. Extensive listening, score study, analysis, and research are required of the student. Lecture one hour, laboratory one hour. Prerequisite: MUS 2034.

MUS 4035. Directed Study in Area Pedagogy and Literature (2–3).F;S.

A survey of current philosophies, materials, techniques, and literature in the student's area of specialization and their application to teaching situations. Lecture two or three hours. Prerequisite: junior or senior standing or consent of the instructor. This course is required of sacred music majors and instrumental or vocal performance majors.

MUS 4050. Psychology of Music (3).F.

Introduction to psychoacoustics; exploration of human affective, aesthetic, and physiological response to music; and introduction to research in music. Lecture and demonstration three hours.

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MUS 4060. Clinical Piano Improvisation (1).F.

An experiential exploration of the theory and practice of clinical music improvisation. Development of musical ideas, musical relationship, and musical freedom and flexibility with an emphasis on piano in dyadic context. Lecture one hour, laboratory one hour. Prerequisites: MUS 3060, MUS 3073 or MUS 4071, and 2 s.h. of MUS 3900, all with a minimum grade of "C" (2.0).

MUS 4061. Clinical Group Improvisation (1).S.

An experiential exploration of the theory and practice of clinical music improvisation within group context. Co-active development of musical ideas and both musical and verbal communication skills within a group context on a wide variety of instruments. Lecture one hour, laboratory one hour. Prerequisite: MUS 4060.

MUS 4070. Quantitative Research in Music (2).F.

An introduction to research in music, including basic design with application of inferential statistics. Development of skill in implementing, documenting, and interpreting experimental research in music. Lecture and demonstration two hours. Prerequisite: STT 2810 or STT 2820 or RES 4600. (WRITING)

MUS 4071. Music Therapy in Health Care (2).S.

Theory, research and clinical skills related to music therapy in medical settings and in palliative care. Exploration of new applications and specialized techniques. Lecture and demonstration two hours. Prerequisite: 2 s.h. of MUS 3900 with a minimum grade of "C" (2.0). Corequisite: Music Therapy majors must be enrolled concurrently in MUS 3900 or MUS 4800.

MUS 4420. Issues in Music Technology (3).S.

A project driven course on the implementation of computers and technology in the music industry. Topics include use of the Internet as a marketing tool, web-design, software used in the recording industry, codec compression schemes, and video production. Lecture three hours. Prerequisite: MUS 2420. For Music Industry Studies majors only or by permission of the instructor. (WRITING; COMPUTER)

MUS 4426. Advanced Audio Principles (3).F.

In-depth study of professional analog and digital audio systems. Implementing and integrating linear and non-linear recording systems, digital signal processing, console automation and digital audio workstation environments. Lecture three hours. Prerequisite: MUS 3426. (WRITING; COMPUTER)

MUS 4427. Recording Studio Apprenticeship (2).F;S.

Recording experiences designed to further the student's understanding of studio procedures and protocols, and to correspond with the activities of professional studio managers and sound engineers. Prerequisites: MUS 3420, MUS 3422, MUS 3426. Graded on an S/U basis.

MUS 4510. Honors Project in Music (1-3).F;S.

Appropriate research for the senior honors students in music. May be repeated for a maximum of 3 s.h. credit.

MUS 4600. Analytical Techniques (3).F.

The development of techniques for analysis of music from the Baroque through the Romantic period through counterpoint, melodic structure, harmony, and form. Lecture three hours. Prerequisite: MUS 2002 with a minimum grade of "C-" (1.7). (WRITING) [Dual-listed with MUS 5600.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MUS 4601. The Theory of Tonal Music (3).S. Alternate years.

An examination of the theoretical concepts and principles that pertain to the structure of tonal music. The significance of written, aural, and analytical skills development within the music curriculum will be addressed. Prerequisites: MUS 2002 and MUS 3002 with a minimum grade of "C-" (1.7) in both courses. [Dual-listed with MUS 5601.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

MUS 4610. Marching Band Techniques (1).F.

A study of the fundamentals of marching, drill design, show planning, rehearsal techniques and the administration of a public school marching band program. Lecture one hour.

MUS 4800. Clinical Research Project in Music Therapy (1).F;S.

GEN ED: Capstone Experience

Supervised clinical research project in music therapy. Prerequisites: MUS 3070, MUS 3072, MUS 3900 (4 s.h.), and PSY 3100, with a minimum grade of "C" (2.0) in each. Music Therapy majors must earn a grade of "C" or better in this course in order to be eligible for MUS 4901 (Internship in Music Therapy).

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MUS 4900. Internship in Music Industry Studies (12).F;S.

GEN ED: Capstone Experience

The internship will be completed under the sponsorship of a music business that focuses on one of the following: music products, music recording, or music management and promotion. The prospective intern and the internship director will select the internship site. The intern will be in weekly contact with the director during the internship. Graded on an S/U basis.

MUS 4901. Internship in Music Therapy (0).F;S.

A minimum of 1020 hours of supervised clinical experience in music therapy at an approved clinical training site. Prerequisites: completion of all other course requirements for the Bachelor of Music degree in Music Therapy. MUS 1037, MUS 1053, MUS 3060, MUS 3061, MUS 3070, MUS 3073, MUS 3900 (5 s.h.), MUS 4060, MUS 4061, MUS 4070, MUS 4071, and MUS 4800 must be completed with a minimum grade of "C" (2.0) in each. Graded on an S/U basis.

Performing Groups (MUS) All ensembles (MUS 1100-1199) may be repeated for credit.

MUS 1100. Marching Band (0–1).F.

Marching Band is a performance-based course presenting musical artistry combined with complementary visual elements. The band performs at home football games, parades, pep rallies and represents the University at special ceremonies and events. Open to students with prior band experience. The band begins rehearsals one week prior to the opening of Fall semester. Rehearsal five hours, one dress rehearsal before each game. May be repeated for credit. (CORE: PHYSICAL ACTIVITY/WELLNESS)

MUS 1101. Symphonic Band (0–1).S.

The symphonic band is open to all students who have had experience playing band instruments. The groups plays standard literature and presents two concerts each year on campus. Rehearsal three hours. May be repeated for credit.

MUS 1102. Wind Ensemble (0–1).F;S.

Membership in the wind ensemble is limited to wind and percussion players who have attained the highest level of performing ability. This usually includes music majors, although non-majors can qualify. The group performs twice each year on campus and occasionally tours to schools in North Carolina and surrounding states. Rehearsal three hours. May be repeated for credit.

MUS 1103. Brass Choir (0–1).F;S.

The brass choir is limited in members to 25 and is augmented with a percussion section for various numbers. Rehearsal three hours. May be repeated for credit.

MUS 1104. Jazz Ensemble (0–1).F;S.

This group is open to all students by audition. Emphasis is placed on developing a variety of popular music styles. Concerts are given on the campus and occasionally at schools off campus. Rehearsal three hours. May be repeated for credit.

MUS 1105. Appalachian Symphony Orchestra (0–1).F;S.

The Appalachian Symphony Orchestra is open to all students who have attained a high level of ability and experience in playing an orchestral instrument. Emphasis is placed on securing good ensemble as well as the technical, dynamic and interpretive demands of the composition performed. An audition is required. The orchestra appears in concert several times during the year. Rehearsal three hours with additional sectional rehearsals. May be repeated for credit.

MUS 1106. Appalachian Philharmonia (0–1).F;S.

The Appalachian Philharmonia is open to highly qualified students who have the ability to perform challenging repertoire under the demands of a professional-style rehearsal process. Faculty members and visiting professionals occasionally lead the individual orchestra sections in rehearsal and performance. Due to the small size of the ensemble, each musician must be prepared to play solo passages. The group appears in concert each semester. Rehearsal three hours. Prerequisite: permission of the instructor. May be repeated for credit.

MUS 1107. Small Ensembles (0–1).F;S.

Small ensembles of mixed instruments are open to all qualified students upon audition. Rehearsal two hours. May be repeated for credit.

MUS 1108. University Singers (0–1).F;S.

The singers accept students who read music and sing well. Auditions are open to all students. Emphasis is placed on fine choral literature of all periods, with particular emphasis given to the works of outstanding composers. Rehearsal three hours. May be repeated for credit.

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MUS 1109. Appalachian Chorale (0–1).F;S.

A non-auditioned mixed chorus open to all students and members of the community. Major choral works are the typical repertory. Rehearsal two hours. May be repeated for credit.

MUS 1110. Treble Choir (0–1).F;S.

This organization is open by audition to all students capable of and interested in singing literature for soprano and alto voices. Rehearsal three hours. May be repeated for credit.

MUS 1111. ASU Glee Club (0–1).F;S.

This organization is open to all students capable of and interested in singing literature for tenor, baritone and bass voices. Rehearsal three hours. May be repeated for credit.

MUS 1112. Chamber Singers (0–1).F;S.

A select group usually consisting of 16 voices which specializes in the performance of chamber literature of all periods. Selection is based on audition. Rehearsal three hours. May be repeated for credit.

MUS 1113. Opera Workshop (0–1).F;S.

A select group of singers who design, plan and execute a musical production each semester. Rehearsal three hours. May be repeated for credit.

MUS 1114. Piano Ensemble (0–1).F;S.

Supervised study and performance of duo and four-hand piano literature. Rehearsal two hours. May be repeated for credit.

MUS 1115. Accompanying (0–1).F;S.

Supervised study of accompanying vocal and instrumental solos. Rehearsal three hours. May be repeated for credit.

MUS 1116. Percussion Ensemble (0-1).F;S.

The function of this ensemble is to introduce the student to the wide area of percussion ensemble literature and to give the student small ensemble experience in the principal area of performance. Rehearsal three hours. May be repeated for credit.

MUS 1117. Gospel Choir (0-1).F;S.

A non-auditioned choral ensemble open to all members of the campus community. Literature performed is drawn from the African American religious experience and performances reflect that ethnic background. Rehearsal three hours. May be repeated for credit.

MUS 1119. Flute Choir (0–1).F;S.

Small ensemble for flutes. Permission of the instructor. Rehearsal two hours. May be repeated for credit.

MUS 1120. Trombone Choir (0–1).F;S.

Small ensemble for trombones. Permission of the instructor. Rehearsal two hours. May be repeated for credit.

MUS 1121. Trumpet Choir (0–1).F;S.

Small ensemble for trumpets. Permission of the instructor. Rehearsal two hours. May be repeated for credit.

MUS 1122. Woodwind Ensemble (0–1).F;S.

Small ensemble for woodwinds. Permission of the instructor. Rehearsal two hours. May be repeated for credit.

MUS 1123. String Ensemble (0–1).F;S.

Small ensemble for strings. Permission of the instructor. Rehearsal two hours. May be repeated for credit.

MUS 1124. Guitar Ensemble (0–1).F;S.

Small ensemble for guitars. Permission of the instructor. Rehearsal two hours. May be repeated for credit.

MUS 1125. Pep Band (0–1).S.

Small ensemble for winds and percussion. Performs at home basketball games. Permission of the instructor. May be repeated for credit.

MUS 1126. Community Band (0–1).F;S.

An instrumental ensemble of 50-60 players that is open to students, faculty, staff and members of the community. A concert is presented each semester. Rehearsal three hours. May be repeated for credit.

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MUS 1127. Concert Band (0-1).F;S.

An instrumental ensemble of wind and percussion players. Membership is open to all students who have experience playing band instruments, and non-majors are encouraged to participate. The ensemble presents two concerts during the spring semester. Rehearsal three hours. May be repeated for credit.

MUS 1128. Jazz Vocal Ensemble (0-1).F;S.

This ensemble is open to all students by audition. Emphasis is placed on singing jazz and popular styles. Rehearsal three hours. May be repeated for credit.

MUS 1129. Vocal Double Quartet (0-1).F;S.

This ensemble is open to all male students by audition. Emphasis is placed on a cappella singing in popular styles. Rehearsal one hour. May be repeated for credit.

MUS 1131. Tabla Ensemble (0-1).F;S.

This ensemble is open to all students by audition. Emphasis is placed on table performance. Rehearsal one hour. May be repeated for credit.

MUS 1132. Percussion Quartet (0-1).F;S.

This ensemble is open to music majors by selection of instructor. Emphasis is placed on percussion performance. Rehearsal two hours. May be repeated for credit.

MUS 1133. African Ensemble (0-1).F;S.

This ensemble is open to all students by audition. Emphasis is placed on performance of African percussion music. Rehearsal one hour. May be repeated for credit.

MUS 1134. Mid-East Ensemble (0-1).F;S.

This ensemble is open to all students by audition. Emphasis is placed on performance of Mid-East percussion music. Rehearsal one hour. May be repeated for credit.

MUS 1135. Steel Band (0-1).F;S.

This ensemble is open to all students by audition. Emphasis is placed on steel drum performance. Rehearsal two hours. May be repeated for credit.

MUS 1136. Brass Quintet (0-1).F;S.

This ensemble is open to music majors by audition. Emphasis is placed on brass quintet performance. Rehearsal one hour. May be repeated for credit.

MUS 1137. Tuba Choir (0-1).F;S.

This ensemble is open to all students by audition. Emphasis is placed on tuba ensemble performance. Rehearsal two hours. May be repeated for credit.

MUS 1138. Collegium Musicum (0-1).F;S.

This ensemble is open to music majors by audition. Participants study and perform music of the 16th through 18th centuries. Emphasis is placed on historical performance practice for music that is played, danced or sung. Rehearsal two hours. May be repeated for credit.

MUS 1139. Appalachian Repertory Orchestra (0-1).F;S.

The Appalachian Repertory Orchestra is open to all students who have ability and experience in playing any orchestral instrument. Participation requires permission of instructor. An audition may be necessary. Emphasis is placed on level-appropriate repertoire with the goal of securing good ensemble as well as the technical, dynamic and interpretive demands of the compositions performed. The orchestra appears in concert several times during the year. During the fall semester, the Repertory Orchestra will be a full orchestra; in the spring, the Repertory Orchestra becomes a string orchestra. Rehearsal three hours. May be repeated for credit.

The Register

FACULTY REGISTER

JOHN PARSONS ABBOTT (1998)

Associate Professor and Librarian
B.S., M.S., Colorado State University
M.L.S., Florida State University

RICHARD NEWTON ABBOTT, JR.
(1979)

Professor in the Department of Geology
B.A., Bowdoin College
M.S., University of Maine (Orono)
Ph.D., Harvard University
Graduate Faculty

TODD AARON ABEL (2010)

Assistant Professor in the Department of Mathematical Sciences
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MARIANNE ADAMS (1984)

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*Professor in the Department of
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ROACHEL J. LANEY (1982)

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TERESA EILEEN LEE (1988)

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