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# **ACADEMIC CATALOG 2009-2011 - Upgraded and Integrated**

## **From the Dean**

This catalog is an educational guidebook for our students at Roanoke College, as well as a source of information for prospective students and others interested in the College. It describes the requirements for all academic programs and for graduation. It provides information about financial aid and scholarships. It sets forth regulations and faculty policies that govern academic life and acquaints students with the Roanoke College faculty and staff.

I encourage every student to become familiar with the contents of the Catalog. If any portion of it needs further explanation, faculty advisors and staff members in the Office of the Registrar and the Center for Learning and Teaching stand ready to answer any questions. Although there are advisors to assist, ultimately, it is the responsibility of the student to register correctly, to complete the necessary course work for graduation, and to abide by the academic regulations of the College, as set forth by the faculty.

Dr. Richard A. Smith

Vice President and Dean of the College

## **Catalog Policy**

The contents of this catalog represent the most current information available at the time of publication. During the period of time covered by this catalog, it is reasonable to expect changes to be made without prior notice. Thus, the provisions of this catalog are not to be regarded as an irrevocable contract between the College and the student. The Academic Catalog is produced by the Registrar's Office in cooperation with various other offices on campus. The educational process requires continual review, and the College reserves the right to make appropriate changes in its courses, programs, grading system, standards of progress and retention, honors, awards, and fees. In general, students are to be governed by the Catalog that is current at the time they begin their studies at Roanoke College. However, a student has the option of declaring to be under the jurisdiction of a subsequent catalog except in cases where core requirements have been changed and the College has stipulated those eligible to declare the new curriculum. Should the faculty determine that a modification in course work for the major or teacher licensure program in education is necessary in order for students to complete a current course of study, the department reserves the right to modify degree or licensure requirements for students who have not yet formally declared a major or applied for teacher licensure.

Students transferring from a Virginia community college may elect to declare any Catalog in effect within the twenty-four month period immediately preceding the term they first enrolled except in cases where core requirements have been changed and the College has stipulated who is eligible to declare the modified curriculum.

**Affiliation:** The College maintains its partnership in church-related education with the Evangelical Lutheran Church in America through the Virginia Synod, the Metropolitan Washington, DC Synod, and the West Virginia-Western Maryland Synod.

**Statement of nondiscrimination:** Roanoke College does not discriminate against students, employees, or applicants on the basis of race, color, gender, creed, religion, age, sexual orientation, marital status, national or ethnic origin, disability, or veteran status.

# ROANOKE COLLEGE

## Statement of Purpose

### Vision

Roanoke College is committed to being a leading national liberal arts college, a model of experiential learning, and a community committed to open discourse and civil debate as ways of learning and as preparation for service in the world.

### Mission

Roanoke College develops students as whole persons and prepares them for responsible lives of learning, service, and leadership by promoting their intellectual, ethical, spiritual and personal growth.

### Purpose

Roanoke College pursues its mission through an innovative curriculum that combines a core program in the liberal arts, major fields of study in the natural sciences, the social sciences, and the humanities and fine arts, along with career-oriented, specialized programs of study. Founded by Lutherans in 1842, Roanoke College welcomes and reflects a variety of religious traditions. The College honors its Christian heritage and its partnership with the Lutheran church by nurturing a dialogue between faith and reason. In keeping with its history and mission, the College strives to be a diverse community, nationally and internationally.

Central to achieving the purposes of the College is a strong commitment to liberal education and its vision of human freedom leading to service within the human community. The College's learning goals, therefore, focus upon developing both a student's confident sense of freedom in the world and a sense of purpose in using that freedom. Through these goals the College strives to produce resourceful, informed, and responsible citizens prepared for productive careers and for leadership in the community.

## Freedom With Purpose:

### A Liberal Arts Education at Roanoke College

#### Philosophy

Education in the Liberal Arts is education for liberation. The term "liberal arts" derives from the Latin *artes liberales* and means, literally, the subjects of study appropriate to free persons. And the verb "to educate" means, in its Latin root, "to lead." A liberal arts education, then, is one that leads out from small worlds into larger ones.

It leads us out from small, safe worlds into larger, more interesting ones by training in us dissatisfaction with partial knowledge, with sloganeering, and with fixed ideologies. It instills in us instead an appreciation for the true complexity of things and a lifelong commitment to learning. A mind so trained respects facts, employs apt methods, and engages in creative problem solving. It examines alternatives; it does not fear tension or paradox. It welcomes the stubborn "misfit" fact that cracks open a too-small view and releases us into a wider play of thought. And it encounters this liberating openness in the vision of artists; in the venturesome thought of philosophers, theologians, and mathematicians; in the observation and experimentation of scientists; in the insights of social scientists; and in the experience of living in community.

A liberal arts education at a small, residential college frees us from isolation within ourselves into a community of learners and sharers, a community of discovery and collaboration, in which we can grow as individuals in constructive engagement with others.

A liberal arts education frees us from reliance upon received opinion into an achieved personal authority by training the skills of critical thought, sound research, and informed and reasoned debate. At Roanoke College this freedom grows out of a tradition of debating societies within a community of open discourse.

A liberal arts education frees us from entrapment within the conventions of our present place and time into a wider perspective that comprehends our own legacies, the breadth of human history, and the variety of human cultures. To support this work, Roanoke College commits itself to the work of building a diverse and tolerant college community.

A liberal arts education frees us from superficiality and distraction into the satisfactions of knowledge in depth, in which depth of learning leads to useful understanding—and to pleasure, wonder, and awe. At the same time, a liberal education frees us from mere specialization into a wider dialogue, in which depth of knowledge is shared and debated to clarify distinctions, to discover patterns, and to integrate human knowledge into an ever larger and more adequate view.

A liberal arts education engages ethics and questions of ultimate meaning. It does not offer pat moral answers. Instead, it provides the basis of all moral behavior—it helps us to imagine the reality of other lives. In matters of ethical living, it does not limit itself to the human, social world, but includes thoughtful consideration of our place within the natural world. At Roanoke College these inquiries are informed, in part, by a tradition of Lutheran education that encourages a dialogue between faith and learning.

Education in the liberal arts frees us from purposelessness into productive careers and lives of service, in which our work to discover what is good, true, and beautiful leads on to work for good in the world.

The effects of a liberal arts education—an education for liberation—are a love of learning, an openness within the vastness of what we do not know, and a desire to use what we do know in ethical living, engaged citizenship, and service for the general good. The broad aim of such an education, therefore, is to produce resourceful, informed, and responsible citizens.

## **Principles**

At Roanoke College a liberal arts education prepares students for lives of freedom with purpose. The college aims to produce resourceful, informed, and responsible citizens prepared for productive careers and for leadership in community, with an understanding of community appropriate to American diversity and to the increasingly global experience of the 21st century.

Traditionally, the liberal arts are the skills of freedom. A liberal arts education at Roanoke College aims to produce resourceful citizens by developing these skills and habits of mind, including:

- the ability to read, listen, and observe carefully
- the ability to access information from disparate sources, to assess it appropriately, and to develop information into useful knowledge
- the ability to think critically, analytically, and creatively; to apply apt methods; to reason with rigor; and to use effective problem-solving skills
- the ability to use writing as a tool of thought and to communicate effectively in a variety of written and oral forms
- the ability to construct, understand, and evaluate arguments that use quantitative reasoning
- the ability to understand scientific discovery and to appraise it wisely
- the ability to make judicious use of new technologies
- the ability to work independently and collaboratively and to participate in experiential learning

Knowledge is essential to freedom. A liberal arts education at Roanoke College aims to produce citizens informed by:

- the cardinal achievements of human imagination as expressed in the arts and humanities, in the sciences, and in the social sciences
- depth of knowledge in at least one academic field of study, complemented by a breadth of experience across the traditional divisions of knowledge sufficient to enable integrative learning and thinking
- knowledge of the histories, values, and achievements of both western and non-western cultures in depth sufficient for the appreciation of disparate values and perspectives; this knowledge includes the cultural insight gained through language study
- knowledge of the values and histories that gave rise to liberal democracy in the United States and an understanding of contemporary issues from a variety of perspectives

Freedom, according to Martin Luther, includes both “freedom from” varieties of oppression and “freedom for” service in community. A liberal arts education at Roanoke College aims to produce responsible citizens by cultivating in its students:

- a commitment to academic integrity and intellectual freedom
- a lifelong commitment to learning and to using that learning in active engagement with others
- a sense of responsibility in which individual identity is honored within a diverse community characterized by mutual understanding and respect
- a commitment to engage in contemplation and reflection as a prelude to action, to make principled and ethical decisions, and to participate in deliberative public discourse
- a commitment to health in its largest sense: the physical and emotional well-being of self within a community that balances intellectual, ethical, spiritual, and personal growth
- a willingness to understand and respond to the needs and challenges of our time, both as individuals and as members of wide, inclusive communities
- a desire to contribute to the common good at Roanoke College, in the Roanoke Valley, and beyond.

### **The College: Its History, Accreditations and Affiliations**

Because David F. Bittle and Christopher C. Baughman, both Lutheran pastors, recognized the need to educate the young men of the rural frontier, they founded in 1842 the institution which was to become Roanoke College. Located near Staunton, Virginia, and named the Virginia Institute, it was chartered in 1845 and renamed the Virginia Collegiate Institute.

Realizing the advantage of having the school at a center of activity, the two men moved it to Salem in 1847. In 1853, the Virginia Legislature granted the charter that raised the school to college status, and the trustees changed its name to Roanoke College.

Today Roanoke is the center of learning for its 1,850 students, a place where tradition and educational innovation meet. Excellence and creativity are the criteria by which Roanoke evaluates its academic programs. Careers of alumni and the respected standing of the College provide a means for measuring the quality of the education offered by Roanoke College. Every area of interest and specialization is represented among the College’s alumni: the arts, athletics, business, religion, education, government, industry, journalism, law, medicine, the military, and public service.

### **Accreditation and Affiliations**

Roanoke College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the Bachelor of Arts, Bachelor of Science, and Bachelor of Business Administration degrees. Contact the Commissions on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Roanoke College. The three-fold purpose for publishing the Commission’s address and contact numbers is to enable interested constituents (1) to learn

about the accreditation status of the institution, (2) to file a third-party comment at the time of the institution's decennial review, or (3) to file a complaint against the institution for alleged non-compliance with a standard or requirement. Note that normal inquiries about the institution, such as admission requirements, financial aid, educational programs, etc., should be addressed directly to Roanoke College and not to the Commission's office.

Roanoke is a member of the College Entrance Examination Board, the National Commission on Accreditation, the Association of American Colleges, and the Association of Virginia Colleges. It is on the list of approved colleges of the American Chemical Society and the American Association of University Women. The Business Administration program is accredited by the Association of Collegiate Business Schools and Programs. The Athletic Training Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The Education Program is approved by the Virginia Department of Education.

#### **LUTHERAN AFFILIATION (ELCA)**

Roanoke is proud of its distinguished heritage as America's second oldest Lutheran college. As an institution affiliated with the Evangelical Lutheran Church in America (ELCA), Roanoke College believes that a sound religious program must be an integral part of the total college life.

Never sectarian in its outlook, the College admits students of any race, color, national and ethnic origin, and sex, to all rights, privileges, programs, and activities generally accorded or made available to students at the College. It does not discriminate against students, employees, or applicants on the basis of race, color, gender, creed, religion, age, sexual orientation, marital status, national or ethnic origin, disability, veteran status, or political affiliation in administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other school-administered programs.

#### **Oak Ridge Associated Universities**

Since 1993, students and faculty of Roanoke College have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 96 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty, enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of under-represented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available on the World-Wide Web at [www.ornl.gov/orise.htm](http://www.ornl.gov/orise.htm), or by calling either of the contacts below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, Consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact Dr. Richard A. Smith, Vice President and Dean of the College, ORAU Councilor for Roanoke College at 540-375-2203; contact Ms. Monnie E. Champion, ORAU Corporate Secretary, at 865-576-3306; or visit the ORAU Home Page at [www.ornl.gov](http://www.ornl.gov).

#### **The College Environment**

The sense of community at the College provides a setting in which students are readily recognized for their accomplishments and are encouraged to realize their fullest potential. Students are also able to enjoy the security and the support that can be engendered only by personal relationships. Classes, clubs, societies, sports, and performing arts groups are small enough to assure participation. The College furnishes an opportunity for a fuller self-awareness and for achieving a responsible knowledge of society.

The majority of students – after Virginia residents – name Maryland, Massachusetts, New York, New Jersey, or Pennsylvania as home, with other points in New England and the South being well represented. While most of our students come from about 40 states, the presence of international students on the campus helps diversify our student body. Most students find friends from cultures both similar to and divergent from their own.

The campus lies in the center of the city of Salem, in southwestern Virginia. The city of Salem, along with the entire Roanoke Valley, was recognized in 1988 as an All-American Community. Salem is situated just off Interstate 81, a few miles north of the scenic Blue Ridge Parkway. Roanoke Regional Airport is an hour's flight from New York or Atlanta and only 35 minutes from Washington, DC, and Charlotte, North Carolina.

With a population of about 25,000, Salem is a city of diversified industry and business. Adjoining Salem to the east is a metropolitan area of 250,000, which includes the city of Roanoke and Roanoke County.

The campus opens onto Main Street in Salem and merges with the town in common streets and sidewalks. The College's buildings are a genial mixture of historic and modern architecture. The Administration Building (which houses the offices for the President and the Vice-President/Dean of the College, as well as the Office of the Registrar and Office of International Education) was constructed in 1847; together with Miller Hall, Trout Hall, and Bittle Hall that flank it, the Administration Building is registered as a Virginia and National Historic Landmark.

The Fintel Library has more than 3000 new items added to the collection annually. Besides the sheer size of the collection, Fintel library is proud to offer the latest in electronic journals (providing access to the full text of over 14,000 titles) and a wide selection of multi-media materials. Among the most popular items is the 1000+ volume DVD collection. In addition the library is also a selective depository for the United States Government Documents.

### **Religion and College Life**

As a college affiliated with the Evangelical Lutheran Church in America, Roanoke stands for a steady and consistent cultivation of religious life and strives to develop in its students an understanding of a person's ethical and spiritual responsibilities in society.

The religious life program is under the direction of the Dean of the Chapel, who is an ordained Lutheran pastor. The Assistant to the Chaplain has major responsibilities for program development with a special emphasis on service activities. In addition, Baptist and Roman Catholic campus ministers help provide a variety of religious activities.

The Religious Life Center is a gathering place for student fellowship, informal conversation, and dialogue over moral and theological issues that affect both the students and the society in which they live.

The opportunities for worship on campus include Chapel on Tuesday mornings, an informal service of Holy Communion on Wednesday evenings and special services on festivals and holy days. On Sunday, students are encouraged to worship in the local congregation of their choice. Roman Catholic Mass is offered every Sunday in Antrim Chapel.

### **Faculty**

Through Roanoke's faculty of approximately 135 full-time members, the student can make fruitful contact with a whole new world of learning and educational experiences. Over 90 percent of our faculty hold the earned doctorate or the highest degree in their area of expertise. Faculty members have published works on various subjects – French, statistics, history, political science, physical sciences, biology, business



administration – and have been involved in such projects as teaching astronauts to operate the Apollo Launch Escape System, consulting with state and local governments, working with area minority business people, developing a neural network based tracking algorithm used in U.S. Navy aircraft, and continuing dissertation research in various fields.

Close relationships between the faculty and students are possible. An advisor is assigned to newly enrolled freshmen or undeclared transfer students during the summer pre-registration process. Students with a declared major are assigned to faculty in their department.

## **ADMISSIONS**

Because of the College's diverse and challenging liberal arts and sciences curriculum, the prospective student must have substantial preparation in a broad range of academic subjects. Students graduating from an accredited secondary school with a strong college preparatory curriculum are best prepared for the academics at Roanoke. It is highly recommended that, in preparation for Roanoke, students take a minimum of 18 academic courses, including four in English, two in social studies, four in a foreign language, and two in lab sciences. Three courses in mathematics, including two in algebra (Algebra I and Algebra II) and one in geometry, are required.

Freshmen usually begin their degree programs with the fall term in August, but students are also considered for admission in January and June. The deadline for admission for the fall term is March 15 for freshmen. However, students are urged to submit their applications prior to the end of the calendar year. Freshman applications received after March 15 will be considered as space permits. Students will be notified of a decision no later than April 1. An application fee of \$30 must accompany the completed application. This fee is nonrefundable and is used for processing an applicant's credentials. Students who can demonstrate financial need may request a fee waiver from the Admissions Office.

Transfer students are also considered for admission in August, January and June. Applications are reviewed on a rolling basis, and applicants are encouraged to submit their paperwork early. A non-refundable \$30 application fee is required.

### **Freshman Students**

Candidates will be considered according to their academic potential as exhibited by their high school course work, standardized test scores, class rank, and other relevant academic information. Either the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT) is required of freshman applicants. The College recommends that the applicant take one of these examinations in the spring of the junior year in school and indicate that Roanoke College is to receive a copy of the results directly from the testing service. Information on both examinations is available at secondary schools or from Roanoke College. The examination code numbers for the College are 5571 for the SAT and 4392 for the ACT.

An application for admission can be obtained by writing to the Admissions Office, by calling the Admissions Office (800-388-2276 or 540-375-2270), by e-mail ([admissions@roanoke.edu](mailto:admissions@roanoke.edu)), or through the Internet ([www.roanoke.edu](http://www.roanoke.edu)). Inquiries pertaining to admissions should be directed to the Admissions Office.

A visit to the College is strongly recommended. Visitors are able to talk with a member of the admissions staff, tour the campus with a student guide, attend classes, and dine in the Commons student dining hall as guests of the College. The Admissions Office is open on weekdays from 9:00 a.m. to 4:30 p.m. and on Saturdays (September-April). Please call the Admissions Office (800-388-2276) or (540-375-2270) for additional campus visit information and/or to schedule an interview and tour. A student who anticipates a visit to the College should write or call in advance for an appointment.

## **Freshman Application Procedure**

The Admissions Committee places primary emphasis on the applicant's secondary school record. Subjects taken, grades, SAT or ACT scores and class rank are among the more important factors taken into consideration. More than ninety percent of the students rank in the upper half of their graduating class. The committee also reviews any additional information submitted by either the applicant or the school.

For freshman applicants who have pursued a non-traditional secondary education program, the General Equivalency Diploma, granted by the appropriate state agency, is recognized. A transcript of the work that was completed in high school is still required; a curriculum similar to that previously described is recommended.

Secondary school students must submit the following when applying for admission: (1) a completed application; (2) an official and complete high school transcript; (3) official results of either the SAT I or the ACT; and (4) the \$30 application fee. The school record should be submitted directly to the Admissions Office by the applicant's counselor or principal.

Roanoke College has no limitation on the number or proportion of qualified persons with disabilities who may be admitted. Applicants complete the usual application procedure. If special tests are available and appropriate, applicants are encouraged to use them.

## **Transfer Students**

Transfer students must submit the following when applying for admission: (1) a completed application; (2) official transcripts of all college-level course work as well as secondary school records; (3) the Admission with Advanced Standing form; and (4) the \$30 application fee.

To be considered for admission, transfer students must be in good standing with all previous or current colleges and have a minimum cumulative grade point average of 2.2 (on a 4.0 scale) in academically transferable courses as determined by the Office of the Registrar. Official transcripts of all course work are required. Credit will be granted only for academic courses similar to those offered at Roanoke and completed at a regionally accredited college or university with a grade of "C-" or better. Foreign university credentials must be evaluated, course by course, through an approved foreign credentials evaluation service.

A minimum of 17 academic units (excluding credit earned for physical education) must be earned at Roanoke College toward the degree. Students with fewer than eight transferable academic units will be evaluated on the basis of their high school record in addition to their college work.

In general, students are to be governed by the Catalog which is current at the time they begin their studies at Roanoke College. However, a student has the option of declaring to be under the jurisdiction of a subsequent catalog except in cases where core requirements have been changed and the College has stipulated those eligible to declare the new curriculum. Should the faculty determine that a modification in course work for the major is necessary in order for students to complete a current course of study in a major, the department reserves the right to modify degree requirements for students who have not yet formally declared their major.

Students transferring from a Virginia community college may elect to declare any catalog in effect within the twenty-four month period immediately preceding the term they first enroll except in cases where core requirements have been changed and the College has stipulated who is eligible to declare the new curriculum.

## **International Students**

Each year, our campus is greatly enriched by the presence of international students who enroll and study toward a bachelor's degree. In addition to submitting the application form and secondary school transcript with the official English translation, international students whose first language is not English should take the Test of English as a Foreign Language (TOEFL) and have the results mailed to the College. The

minimum TOEFL score for admission is 520 [68 internet-based or 190 computer-based]. International students, whose native language is not English, may alternatively choose to take the APIEL or IELTS exam in place of the TOEFL exam. The minimum APIEL score for admission is 3 and the minimum IELTS score is 6. Two ESL courses (LANG 221 and 222) are taught each year on campus for credit. Language 221 and 222 are required for international students whose first language is not English and whose TOEFL scores are between 520 and 550, unless exempted from Language 221 by results of a Roanoke College proficiency test. Students who score 551 through 570 may take LANG 222 with permission of the instructor. Students who score 550 or below will be required to take a proficiency test during orientation.

Successful results on national examinations such as “A” levels (U.K.) or Baccalaureate (France) may lead to advanced placement and credit toward the degree. These scores should be mailed with the application. It is highly recommended that international students submit a formal autobiographical essay of two pages, written in English, discussing why the student wishes to study at Roanoke College. Foreign university credentials must be evaluated, course by course, through an approved foreign credentials evaluation service.

An official bank statement indicating the availability of funds to support the student for one academic year must also be sent with the completed application. The College Board Foreign Student Financial Aid Application form may be submitted in lieu of the official bank statement. International students are encouraged to apply for merit-based financial aid. Superior results on the SAT or the TOEFL/APIEL/IELTS will be taken into consideration when awarding partial scholarships.

### **Students with Disabilities**

Prospective students with disabilities are encouraged to visit Roanoke College. A personal visit enables the student and College representatives to meet and determine how the College might best serve the student’s particular physical needs and learning needs. Persons with physical disabilities which affect access to campus facilities should contact the Director of Campus Safety. The Director of Campus Safety serves as the Section 504 Coordinator. The Campus Safety Office is located in Bowman Hall.

Students with diagnosed learning disabilities must send a copy of psycho-educational testing results to the Coordinator of Disability Support Services in the Goode-Pasfield Center for Learning & Teaching. IEP or 504 plans will not be considered sufficient documentation unless accompanied by a full evaluation completed within three years prior to submission to the college. While Roanoke College does not offer a special program for students with learning disabilities, certain accommodations may be permitted based on the specific disability and the recommendations of the consulting professional. Any special considerations or accommodations requested by the student will not be allowed until testing results have been received and reviewed by the Coordinator of Special Services. All requests are handled on a case-by-case basis. Students are encouraged to submit their documentation shortly after being admitted to the College to ensure that their accommodations are in place prior to the beginning of their first term.

At the beginning of each term, students will be required to obtain an Access Plan from the Coordinator of Disability Support Services in the Goode-Pasfield Center for Learning & Teaching. This plan outlines necessary accommodations in accordance with submitted documentation. Students will submit an Access Plan to each instructor in whose class they wish to receive accommodations. It is then the students’ responsibility to speak with their professors regarding their accommodation. This process will be repeated each semester.

### **Internal Grievance Procedure For Students with Disabilities**

The College has an established written grievance procedure for students with disabilities. Any student with disabilities who has a specific problem or complaint (related to their disability) with any action taken or not taken by the college should first attempt to resolve the matter informally with the Coordinator of Disability Support Services. The student may file a formal written grievance with the Section 504 Coordinator if the matter is not resolved to the student’s satisfaction. The matter will be handled as outlined in the document, “Internal Grievance Procedure for Disabled Students.” A copy is available from

the Section 504 Coordinator in the Campus Safety Office or at [http://roanoke.edu/A-Z\\_Index/Center\\_for\\_Learning\\_and\\_Teaching/Special\\_Services/Grievance\\_Procedures.htm](http://roanoke.edu/A-Z_Index/Center_for_Learning_and_Teaching/Special_Services/Grievance_Procedures.htm).

## **Special Students**

Students who wish to pursue academic courses for purposes other than a Roanoke College degree are admitted to the College as special students. Special or non-degree students must be eligible to return to their previous institutions if they were not graduated and must possess the requisite academic background for college-level course work. Students may have to submit a transcript showing that a prerequisite has been met. Special students are subject to all academic rules and regulations of this College. If a special student later applies to be a degree candidate and is accepted, any courses completed as a special student at Roanoke College may be applied toward the degree. The residency requirement of 17 units, however, must be completed after acceptance as a degree candidate.

A student whose eligibility verification is not available due to a late application for admission as a special student may be admitted to the College under the classification of temporary. This classification and the student's enrollment remain valid only until the last day for students to withdraw from the College for that term under normal circumstances. If at that time the Admissions Office has not received written verification of graduation or of eligibility to return to previous institutions, the student will be automatically withdrawn from Roanoke College as of that date; if eligibility is verified, a student is reclassified as special, non-degree.

## **Adult Students**

Roanoke College's Opportunities Program provides communication and support to allow adult students to attend college. These services include the availability of day and evening courses, special financial aid for part-time, degree-seeking adult students, and meetings of adult students to address special needs and topics of interest.

To qualify for the Opportunities Program, students must be at least 25 years old and satisfy the following requirements: completion of a high school diploma or GED; submission of a high school transcript; satisfactory completion of Algebra II; completion of SAT, or ACT (when applicable); a minimum of a 2.2 cumulative transfer grade point average (when applicable). See "Admissions" for more specific requirements.

Credit will be granted only for academic courses similar to those offered at Roanoke and completed at a regionally accredited college or university with a grade of "C-" or better. Official transcripts must be provided. Credits may also be received by adult students for scores the equivalent of "C-" or better on appropriate College Level Examination Program (CLEP) tests. See Advanced Placement and Credit, Credit by Examination, and Transfer Credit for more information. See "Transfer Students" for more information.

Additional information is available by contacting the Director of Adult Studies at 540-375-2303.

## **FINANCIAL AID**

To be considered for financial aid, the student must have been admitted to the College and plan to enroll as a degree-seeking student. Some programs require that students have a demonstrated financial need. Scholastic qualifications are also considered and for College grants and scholarships, priority is given to those students who have demonstrated academic talent and potential.

The Financial Aid staff determines who will be eligible to receive aid and the amount of that aid. In arriving at such decisions, the cost of education and the total resources available to the student are considered.

As part of the application process, students are asked to file the Free Application for Federal Student Aid (FAFSA). Students, who are Virginia Residents enrolling for first time at a Virginia private institution, are required to complete the Virginia Tuition Assistance Grant application (TAG) by July 31. Both the FAFSA and TAG applications are available from the College's financial aid office, as well as the College's webpage.

### **Financial Aid Regulations and Programs**

The Free Application for Federal Student Aid (FAFSA) is used by the College to determine the student's financial need and serves as the initial application for financial aid. The FAFSA must be completed to receive any need-based funds from College, state, or federal sources. The College, through endowment and annual giving by alumni, friends, and parents, provides funds for student aid in a variety of forms. When these funds are considered with those from the federal and state programs, financial aid to students may reach substantial proportions. However, it is necessary to qualify for aid within certain limits and regulations.

In order to be fair to all applicants for financial assistance, the Financial Aid Office has established regulations governing the administration of the available funds.

1. Financial aid applications will be considered from new students after they have been approved for admission.
2. An applicant must file the Free Application for Federal Student Aid by March 1 to be considered for need-based aid.
3. Financial aid of various types is available to full-time, first time degree-seeking students carrying a minimum of three units per term. Generally, half-time students who are candidates for their first baccalaureate degree may apply for some federal student financial aid programs but are not eligible for the Virginia Tuition Assistance Grant Program, the Virginia College Scholarship Assistance Program, or most College grants and scholarships.
4. To renew financial awards, a recipient of aid should not be found in violation of College conduct policies and regulations and must maintain satisfactory academic progress according to guidelines available from the Financial Aid Office.
5. Financial assistance is normally based on enrollment for a full academic year.
6. Financial assistance is available to students regardless of race, national or ethnic origin, religion, sex, disability, or age.

### **Types of Financial Aid**

Eligible students may qualify for one or more of the following:

Roanoke College Scholarship

Roanoke College Grant

Roanoke College Bolton Award

Roanoke College Kizer Award

Roanoke College Lutheran Grant

Roanoke College Supplemental Grant

Virginia Tuition Assistance Grant Program\*

Support from Independent Financial Organizations

Virginia College Scholarship Assistance Program\* (VCSAP)  
Federal Pell Grant  
Federal Academic Competiveness Grant (ACG)  
Federal Science and Math Access to Retain Talent Grant (SMART)  
Federal Supplemental Educational Opportunity Grant  
(FSEOG)  
Federal Perkins Loan  
Federal Work-Study Program (FWSP)  
Federal Subsidized Stafford Loan Program  
Federal Unsubsidized Stafford Loan Program  
Federal Plus Loan

\*Roanoke College students who are bona fide residents of the Commonwealth of Virginia for one year may be eligible for the two state financial aid programs authorized by the Virginia General Assembly. Detailed program descriptions and eligibility criteria are available on request from the Financial Aid Office.

Students who think they may be eligible for VA or GI benefits should contact the Veterans Administration.

### **Scholars Program**

The Roanoke College Scholars Program was designed to recognize and support freshman students of superior academic and leadership ability. These students have the opportunity to compete for five different awards. To be considered for these scholarships, students must complete the Roanoke College Scholars Program application and be a prospective college freshman seeking first time fall enrollment. All participants must be accepted to the college prior to the on-campus competition.

All awards are renewed annually based upon the student making satisfactory academic progress as defined by the institution.

### **Student Loan Fund**

The Roanoke College Student Loan Fund is composed of assets from two principal sources:

**Terrill Bushnell Mr. Bushnell** '14 bequeathed to Roanoke College two student loan funds in the name of his parents, Reverend Dr. John E. Bushnell and Annie Terrill Bushnell. The revolving scholarship funds are for the benefit of worthy junior and senior students who may be financially unable to bear the cost of continuing their education, with the student permitted to borrow from the fund in such amounts as may be decided by the Financial Aid Office.

**Dr. Norborne F. Muir** Dr. Muir, a longtime friend of Roanoke College, bequeathed a gift, the income from which is a revolving loan fund for the primary purpose of making loans to worthy students with an established financial need who are seeking degrees at the College. These funds are loaned only to students requiring financial assistance who might not otherwise be able to attend and earn a degree, with such determination to be made entirely at the discretion of the College.

## **STUDENT SERVICES**

The Division of Student Affairs provides a variety of programs and services that contribute to a student's academic experiences and the educational mission of the College. Specific program and service areas include residence life, student development & co-curricular learning, student activities, athletics, recreation & sports clubs, intramurals, health services, counseling center, campus safety, student life, and student conduct.

## **Residence Life**

Roanoke College is a residential campus. The faculty and staff believe that living on campus is an important part of the educational experience at Roanoke College. Therefore all full-time students, except those who have lived in the Roanoke Valley area (within 30 miles of campus) for at least six months preceding the date of first enrollment, those who are married, those who live with parents, grandparents or siblings who live within 30 miles of campus, those who are at least 23 years old (before the beginning of the term during which they desire to live off-campus), those who are military veterans, or those who have received and accepted permission to live off campus during housing selection process, are required to live on campus. Part-time students must receive permission from the Residence Life staff to reside on campus. With the exception of Elizabeth Hall residents, residents are required to purchase a meal plan.

Residence hall space is reserved for a student after the individual has been admitted and has paid the tuition and room and board deposits. Notification of room and roommate assignment is typically sent to students in July.

Rooms are furnished with single beds (extra long mattresses), dressers, closets or wardrobes, desks, and desk chairs. Students are expected to bring linens (extra long), bedspreads, blankets, pillows, trash cans, lamps and any other personal articles. Housekeeping service is provided to clean common areas, but students are expected to maintain their individual rooms. The residence halls remain locked 24 hours a day. A room key and exterior door key or building access card are issued to each resident student. Each residence hall is under the supervision of a professional Area Coordinator. In addition, a student Resident Advisor (RA) is assigned to each living area. The RAs assist students and enforce College regulations. Greek Resident Managers (GRMs) are assigned to the fraternity and sorority areas on campus and perform similar functions. Coinless washers and dryers are available for use by resident students during the regular academic year and the intensive learning term. The machines are operated by coin during the summers. Most students rely on their personal cell phones for telephone usage. However, the College provides a land line telephone upon request. A deposit for the telephone is required.

Rooms in residence halls, other than those designated for break and summer usage, are rented only for those periods of time that the College is in regular session as specified by the College calendar. Room changes are permitted. However, they must be approved by the Residence Life staff prior to the move.

The Resident Student Comprehensive Fee includes room and board and washer/dryer costs. Meals are served in the College cafeteria, known as the Commons, seven days per week. Commuting students may buy meals in the Commons. In addition, food and snacks may be purchased in the snack bar, known as the Cavern.

For detailed information about living on campus visit [www.roanoke.edu/reslife](http://www.roanoke.edu/reslife).

## **Student Development & Co-Curricular Learning**

The Office of Student Development & Co-Curricular Learning is committed to fostering leadership development and firsthand learning opportunities for students that enhance the traditional classroom experience.

In this capacity, the office coordinates the Maroon Passport, Roanoke College's student development transcript, and co-curricular leadership development programs including Journey, Leadership Lessons, Leadership Roanoke, Outdoor Adventures and Salem Ambassadors.

By participating in programs and services sponsored by the Office of Student Development & Co-Curricular Learning, students are challenged to realize their potential through greater involvement in firsthand learning opportunities.

## **Maroon Passport**

The Maroon Passport, Roanoke College's student development transcript, offers Roanoke students an edge by fostering firsthand learning opportunities that enhance their academic experiences and position them for success in life and careers after graduation.

The program encourages students to participate in significant co-curricular activities in five designated areas that emphasize firsthand learning and are highly valued at the College. This innovative program also helps distinguish our students' experiences and qualities from others by providing an official record of co-curricular accomplishments in the following themed areas: career development, global and multicultural awareness, leadership, research and creativity, and service.

### **Student Activities**

Campus-wide social and co-curricular activities are coordinated through the Colket Center, the College's campus center. The Director of the Colket Center & Student Activities works with the student-run Campus Activities Board in providing a wide variety of activities to meet the needs and interests of the student body. Activities are open to all students and may include popular movies, live entertainment, dances, nightclub entertainment, and special events. National fraternities, both male and female, and special interest clubs provide additional social opportunities on campus.

A weekend shuttle, the Maroon Express, transports students from both the main and Elizabeth campus to downtown Roanoke city, a popular theater complex and a local shopping mall. The shuttle is a free service to all students.

The Outdoor Adventures program takes advantage of the College's geographic location to offer a unique outdoor experiential program which helps the College fulfill its mission of developing the whole person.

Campus activities allow students to apply principles learned in the classroom to practical situations. As part of the cooperative curriculum, students involved in campus activities learn such leadership skills as budgeting, motivating, delegating, programming, evaluating, and negotiating. Also, involved students have the opportunity to develop close relationships with faculty and staff advisors.

### **Student Government**

Responsibility in certain areas of campus life is delegated to the students by the President of the College. In these areas, the student government operates by designated authority rather than by inherent right. Participation in self-government helps develop the discipline and sound judgment necessary to put education to the wisest possible use.

Students are members of numerous governing bodies, including the Board of Trustees College Life Committee, Residence Halls Community Council, Academic Integrity Council, College Conduct Board, Student Conduct Council, Resources and Planning Council, Curriculum Committee, and Student Life Council. The President of the Student Body is invited as a student observer to meetings of the Board of Trustees and of the Faculty.

### **Student Media**

Students write, edit, and publish a weekly newspaper, The Brackety-Ack Campus news is highlighted with editorials, letters-to-the-editor, columns, and opinion-poll articles.

The student literary magazine, On Concept's Edge, presents student-authored prose, poetry, and art work.

WRKE-LPFM is the student-run campus radio station. WRKE broadcasts on 100.3 on the FM dial and on the Web at WRKE.ORG. This low power, 100 watt station covers most of the Salem Virginia area. It offers a variety of programming during the academic year.

### **Art, Art History, Music and Theatre**



F.W. Olin Hall for Arts and Humanities, home of the Fine Arts department, offers students a unique opportunity to experience the energy and excitement of the arts. Considered one of the best arts facilities in the state, Olin Hall provides students with the opportunity for scholarly and creative involvement in art, art history, music, and theatre programs.

Olin Hall serves as a major cultural arts center for the Roanoke Valley. Some of the outstanding facilities available in Olin Hall include a 404-seat main stage theatre with the latest in computerized lighting and sound systems; a 125-seat recital hall; a 500-seat outdoor amphitheater; versatile classrooms; studios; a fine arts library; practice rooms; 4 multi media rooms with slide, film, and TV projection; comfortable student lounges; a 100-seat studio theatre; a dance and rehearsal hall; faculty offices; a sculpture platform garden; and a Concert Grand Steinway "D" piano.

In studio art, students in Olin Hall can develop their creativity in modern and fully-equipped painting, drawing, design, graphic art, computer, photography, printmaking, ceramic, and sculpture studios and laboratories. Art History allows students to discover, examine, and analyze the visual masterworks of the past and relate them to contemporary understanding of social, political, religious, and aesthetic issues. Running parallel to the active studio & art history programs for students is the Olin Hall gallery program, which presents many art exhibitions and events complementing art & art history studies, as well as national touring exhibitions from such institutions as the Virginia Museum of Fine Arts and the Smithsonian. In addition, student works are exhibited annually in Olin Hall, culminating in the art majors exhibition held each year in the Olin and Smoyer Galleries.

In music, a student may audition for the Roanoke College Choir which performs at special events and on-campus and off-campus programs throughout the year. A Spring tour is often a part of the choir's schedule. The Wind Ensemble and Jazz Ensemble perform four concerts a year as well as provide musical support for the College's spring commencement ceremony and several sporting events. Student Chamber Ensembles and soloists perform on the Tuesday at Noon music venue. Olin Hall also provides opportunities to hear the College's resident chamber ensemble, the Kandinsky Trio.

In theatre, students audition for parts in several theatrical productions each year. Shows have included Twelfth Night, Dracula, The Glass Menagerie, The Skin of Our Teeth, Hedda Gabler, Bus Stop, The Heidi Chronicles, Little Shop of Horrors, Five Women Wearing the Same Dress, Godspell, The Laramie Project, Antigone, and Miss Julie. Participation in theatre at Roanoke College gives students experience in acting, makeup, set design, lighting, publicity, and other phases of production. This experience is available to students from all majors at the College.

### **Athletics**

Roanoke College is a member of the National Collegiate Athletic Association Division III and the Old Dominion Athletic Conference. Men compete with other colleges in soccer, cross-country, basketball, baseball, track and field, tennis, golf and lacrosse. Women's varsity sports include soccer, field hockey, volleyball, cross-country, basketball, softball, tennis, lacrosse, and track and field.

Roanoke has excellent facilities to support every phase of a well-rounded athletic program. There are six athletic fields which include Donald J. Kerr Stadium, the home for our men's and women's soccer, men's and women's lacrosse, and field hockey teams. Kerr Stadium is equipped with lights and FieldTurf, a synthetic playing surface. The C. Homer Bast all-weather track with seating for 2500 flanks Kerr Stadium, with tennis courts close by. The C. Homer Bast Physical Education and Recreation Center includes two basketball courts, a state-of-the-art fitness center, classrooms, an athletic training room, offices, and locker rooms.

### **Recreation and Club Sports**

Students have the opportunity to participate in intercollegiate, club, intramural and recreational sports and activities. The recreation department offers students a wide variety of club sports to choose from. Students can pick from hockey, equestrian, rugby, ultimate Frisbee, and a multitude of other sports. Students with any level of experience are welcomed to play. Roanoke College greatly supports students who wish to

play club sports and can provide the resources needed to make the participation in club sports a valuable and enjoyable experience.

Joining a Club sport can greatly enhance ones college experience. It provides students with an outlet to release stress that arises from classes, as well as a way for students to interact with people they otherwise would never have met.

### **Intramurals**

Roanoke College intramural sports are widely popular amongst all types of RC students. Intramurals allows students to participate in multiple activities on a team or on an individual level. Games can be played on a coed and single sex level. Students can formulate their own teams or join as individuals and be placed on a team. There are a wide range of intramural sports offered by season at Roanoke College such as, indoor and outdoor soccer, flag football, basketball, dodge ball, kickball, and many others. Any level experience is welcomed and encouraged, for intramurals offer an ideal opportunity for students to learn and harness skills in any type of sport.

### **Health Services**

Student Health Services provides confidential on-campus health care services to all full-time students. The clinic functions like a typical doctor's office and is staffed by family physicians, nurse practitioners, and registered nurses. Nurse Practitioners may treat both acute and chronic conditions as well as prescribe medications and therapies. There is no charge for office visits; however, lab tests, certain procedures, physicals, immunizations, allergy or other injections incur charges payable by cash, check, Maroon Money, and most major credit cards. For more information visit [www.roanoke.edu/health](http://www.roanoke.edu/health).

It is college policy that Health Services staff not excuse students from class. Each professor establishes individual policies regarding absenteeism. Students are encouraged to contact faculty members when illness or injury interferes with class attendance. In certain situations, Health Services, with the student's permission, may notify the registrar or individual professors of a student's illness.

All new full-time students are required to provide a complete health record containing medical history, immunization record, and tuberculosis screening. Students will not be able to register for classes until this record is received. Part-time students may be asked to provide documentation of immunization history in the event of a communicable disease outbreak.

### **Counseling Center**

The years at college can be amongst the most gratifying and challenging of a person's life. For traditional age students, transitioning into adulthood propels choices about ways of life and learning while encountering a broader world of relationships and ideas. These choices and changes can create or intensify problems in living. For non-traditional students, too, there are new choices and pursuing academic goals may add to the difficulty of ongoing personal and work responsibilities. The Counseling Center is prepared to respond to the mental health needs of the College community in a compassionate, competent, and confidential manner. The professionally licensed counseling staff provides psychological counseling, psycho-educational programming, and consultative services which are free of charge. The Center is located in Morehead Hall. Appointments can be made in person or by telephone at 540-375-2302.

### **Campus Safety**

The Office of Campus Safety provides police and security services, student escort services, security patrol of the campus, fire and personal safety programs, and traffic control. Campus Safety Officers are on duty 24 hours a day at the College and are radio dispatched to assist in and provide these services. Officers are appointed Special Conservators of the Peace by the Circuit Court and have arrest authority on College

property. The Safety Office is located on the first floor of Bowman Hall. The office can be contacted 24 hours a day at 540-375-2310 or by using one of the direct-dial emergency “Red Phones” located in many buildings on campus and/or Yellow “Access/Emergency” telephones which are located outside each residence hall main entrance.

Each fall Roanoke College publishes an *Annual Security Report* and an *Annual Fire Safety Report* for residential facilities in compliance with the Higher Education Act of 1965. The *Annual Security Report* contains information about safety and security procedures and policies on our campus. Included are campus crime statistics for the most recent three calendar years. The *Annual Fire Safety Report* contains fire safety information about each residence hall, as well as statistical data and fire safety policies and procedures. A “notice of availability” of the reports is distributed to all students and the reports are available to prospective students upon request by contacting the Admissions Office. The reports can also be found on the college web site at [http://roanoke.edu/A-Z\\_Index/Safety/Reports.htm](http://roanoke.edu/A-Z_Index/Safety/Reports.htm).

## **Student Life**

The first year at Roanoke is often the most important one in a student’s academic career. During this period, students assume responsibility for their academic and co-curricular activities. When this is a student’s first extended stay away from home, important adjustments are sometimes required. Self-reliance and self-discipline should develop along with independence and maturity.

Roanoke College operates on the principles of honesty, respect, and personal responsibility. Students are expected to conduct themselves in accordance with these principles and will face disciplinary consequences if they fail to do so.

## **Social Fraternities and Sororities**

Nine national Greek letter fraternities and sororities are recognized at Roanoke College, and the College provides designated housing for these organizations. The fraternity and sorority chapters and their founding dates are:

- Alpha Sigma Alpha, Theta Beta Chapter, 2002 (women)
- Chi Omega, Pi Epsilon Chapter, 1955 (women)
- Delta Gamma, Gamma Pi Chapter, 1955 (women)
- Delta Sigma Theta, Tau Omega Chapter, 2004 (women)
- Kappa Alpha, Beta Rho Chapter, 1924 (revived 1987, men)
- Phi Mu, Gamma Eta Chapter, 1955 (women)
- Pi Kappa Alpha, Phi Chapter, 2001 (men)
- Pi Kappa Phi, Xi Chapter, 1916 (revived 2004, men)
- Sigma Chi, Tau Chapter, 1872 (revived 1923, men)

## **Student Conduct and the Disciplinary System**

Disciplinary powers reside with the College. Various types of disciplinary hearings are utilized depending upon the nature and severity of the misconduct. Complete information on the disciplinary system is found in Appendix C of the Student Handbook and in the Student Conduct Code Manual.

## **Conduct Policies and Regulations**

College policies and regulations are designed to protect the rights of all students and to support the purpose and aims of the institution. Students are responsible for learning and abiding by the policies and regulations. These policies and regulations are found in the following publications: Academic Catalog,

Student Handbook, Academic Integrity at Roanoke College, and the Student Conduct Code of Roanoke College. A partial summary of the regulations is given here:

**Academic Integrity** - The College seeks to maintain the highest standards of intellectual scholarship and performance, and works to promote honesty, integrity, and responsibility in all academic work. Violations of academic integrity (i.e., cheating, lying, plagiarizing, impeding academic investigations, denying access to needed materials, etc.) are handled according to policies and procedures described in Academic Integrity at Roanoke College. Students need to be familiar with this booklet and pledge to follow the integrity guidelines.

**Alcoholic Beverages** - The College does not encourage the use of alcoholic beverages by students, nor does it condone the violation of applicable laws or College policies. The College respects the rights of students of legal age to consume alcoholic beverages in approved locations as long as they drink responsibly and adhere to applicable laws and College policies. Individuals who choose to consume alcoholic beverages, regardless of their age, are responsible for their behavior. The legal drinking age in Virginia is 21 years of age. The College seeks to educate students about alcohol use and abuse and provides information about assistance for those with a problem who seek help. The College reserves the right to limit or revoke the privilege of consuming alcohol on campus in the event that students do not drink responsibly.

**Automobiles** - All students with vehicles at the College must pay an annual parking fee, register the vehicle with the Office of Campus Safety, and display a parking decal. Resident students from Virginia may be subject to paying personal property taxes on their vehicles to the City of Salem. These students should contact the Salem Commissioner of the Revenue to determine their status. A summary of parking and motor vehicle policies is distributed to students when a vehicle is registered and a parking decal issued. The complete policy is found in appendix H of the Student Handbook.

**Consideration for Others** - Students are expected to observe and respect the rights of others, including the faculty and staff of Roanoke College, who have a professional right to perform their duties without harassment or obstruction. The failure to do so, as defined in the Student Handbook, subjects the offender to disciplinary action, including suspension or expulsion.

**Drugs** - The possession, use, sale, or manufacturing of illegal drugs or paraphernalia which contains illegal drug residue, as well as the misuse of prescription drugs, is a violation of College policy and state law. Any student violating this policy may be subject to severe disciplinary action including suspension or expulsion. Law enforcement agencies are notified of drug-related criminal offenses occurring on campus and are given the names of those involved. The College seeks to educate students about substance use and abuse and provides information about assistance for those with a problem seeking help.

The College has a program aimed at preventing the illicit use of drugs and alcohol by students and employees in compliance with the Drug-Free Schools and Communities Act Amendments of 1989.

## **FINANCES**

The Business Office is open weekdays throughout the year from 8 a.m. to 4 p.m. However from Christmas Eve until New Year's Day the College will not be open for normal daily operation. Online transactions may be accomplished 24/7 through a student's WebAdvisor account.

### **Tuition, Room and Board for Full-Time Students**

**Resident Students** Those students who both live in double occupancy rooms and board on campus, per academic year: \$ (\$41,822). All residential students on the main campus are required to be on a meal plan. The 19-meal plan is required for the freshman year, but a 14-meal and 9-meal plan option are also available for resident students after the freshman year. The charges for the meal plans and the method of tracking meal plan usage is determined by the college and is subject to review by the college each year.

**Commuter Students** Those students who do not live and board on campus, per academic year: (\$30,314).

**Overload Tuition Fee** Applicable to each full unit taken in excess of five units in either first term (Fall) or second term (Spring). This fee is based on the number of units for which the student is registered at the end of the add period, at the per unit rate of (\$725.00).

**Tuition for Part-Time Students**

Students who carry fewer than three units and do not room on campus pay tuition (based on the number of units for which the student is enrolled at the end of the add period) at the per unit rate of (\$1,450.00)

**Tuition for Graduates and Senior Citizens**

Roanoke College graduates may enroll in any credit course, either for credit or as an auditor, on a full or part-time basis and receive a discount of 50% off of tuition. Senior citizens who live within commuting distance of the college, are at least 60 years old, and are fully retired from normal full-time employment receive a reduction of 75% off of the tuition cost for credit courses. Qualifying senior citizens receive a 50% reduction for non-credit continuing education courses and are only charged \$100 per unit for auditing a course.

**Tuition for Intensive Learning Term**

The Intensive Learning (IL) Term is held in May of each academic year. There is no additional tuition charge for one intensive learning term course. However, additional tuition costs may apply if the student was previously enrolled in an IL Term course. Students who take more than one Intensive Learning Term course will be required to pay an additional tuition charge at the rate of part-time tuition (\$1,450.00). This amount will be billed on a separate invoice by the Business Office in April if these charges should apply.

**Domestic/On Campus:**

**Current full-time commuter students** Housing fees if student moves on campus (see below).

**Current part-time commuter or transfer students, or current non-student** \$1450.00 per unit tuition and housing fees if student moves on campus.

**Current full-time resident students** No additional housing charges or fees if student was a resident for at least two years and enrolled in their first IL course. No additional housing charges or fees if student was a resident for one year, has a room assignment for the next academic year and is enrolled in their first IL course.

**Housing Fees**

CATEGORY	ROOM	BOARD	TELECOM FEE
On-Campus 3 weeks	\$ 450.00	\$ 552.00	\$ 35.00
On-Campus 2 weeks	\$ 300.00	\$ 368.00	\$ 25.00
On-Campus 1 week	\$ 150.00	\$ 184.00	\$ 20.00

**Non-Travel Courses**

Refunds - A 100% refund of tuition, housing and fees paid will be given to those students who drop an IL term course on or before April 15th. No refunds will be issued for students dropping an IL course after

April 15. There will be a late drop fee of \$100 charged to any student who drops the course after April 15th, as well as a late fee of \$100 for students pre-registering for an IL term course after April 15.

### **Foreign Travel Courses**

The initial nonrefundable deposit for all foreign travel courses is \$300 and is due by December 1st. The tuition charge, if applicable, for these courses will be equivalent to the part-time tuition rate of \$1,450.00 per unit. Additionally, the student will be responsible for paying all travel costs associated with the course. All tuition charges and travel costs must be paid in full prior to departure for the course.

\*Please note: Both deposits and final payments for all IL Travel courses are considered nonrefundable.

### **Miscellaneous Expenses**

**Activity Fee** A student activity fee will be charged to all students as follows; \$175.00 per semester for all full-time students and \$35.00 per semester for all part-time students. This fee is used to cover the cost of student activities available to all students.

**Application Fee** \$30 must accompany each application for admission. This fee is non-refundable.

**Applied Music Fee** (in addition to comprehensive fees)

**The fee per term for applied music is as follows:**

1. Declared music major at or above sophomore level; full-time Roanoke College student; one applied music course/term to a maximum of 7 N/C
2. Music major (as described in 1), per additional applied music course \$350
3. All other full-time or part-time students per applied music course \$350
4. MUSA 107 (Studio Guitar) Fee \$290

This fee is applied to the account of students registered for applied music courses at the end of the add period. If withdrawal from a course occurs later, there is no adjustment to this fee.

**Auditor** For fee purposes, a course for audit is considered the same as a credit course.

**Breakage** Excessive breakage of equipment in laboratory courses or of any College property in dormitory residences or elsewhere will be billed to the person responsible.

**Credit by Examination** A service charge of (725.00) per unit for currently enrolled students and \$1,450.00 per unit for former students is made for giving an examination for credit in a course. The student omits classwork and attendance and desires credit by successful completion of a comprehensive examination in the course.

**Health Service Fees** Students are charged for laboratory work, allergy injections, inhalation therapy, physicals, and gynecological examinations. Students are also responsible for prescription medications and any services received off campus. There are no charges for most routine healthcare and services.

**ID Card Replacement** A \$25 replacement fee will be charged for lost ID cards.

**Late Check-in Fee** A \$50 service charge is assessed to students who do not officially check-in by the appointed date.

**Late IL Term Add/Drop Fee** A \$100 fee is charged to all students who add or drop an IL term course after April 15th.

**Lost Key Charge** All resident students are issued a room key at no charge. There is \$25 charge for each key lost during the academic year, which covers the cost of changing the lock on residence hall rooms and issuing a new key.

**Orientation Fee** A \$125 fee will be charged to all new incoming full-time students to cover some of the costs associated with orientation activities. This fee is nonrefundable.

**Parking** A \$50 nonrefundable fee will be charged for parking decals to students parking on campus. Parking fines range from \$15-\$50. See Motor Vehicle Policy in the Student Handbook for details.

**Payment Plan** Detailed information is outlined under “Method of Payment.”

**Print Allotment** Students are allocated \$50.00 per academic year (Fall and Spring) on their Maroon Card for printing at computer labs on campus. \$5.00 for Intensive Learning and \$10.00 for Summer School. This fund is only for printing and is not refundable to the student.

**Return Check Fee** A \$25 fee will be charged for each check returned by a bank. After three returned checks we will only accept payment in the form of guaranteed funds (ex. credit card, money order, cashier’s check, etc.).

**Room Unlock Charge** Resident students who lock themselves out of their rooms are permitted two (2) free unlocks per academic year. Each subsequent unlock will cost the student \$10.

**Service Charge** A \$10 fee will be charged for all miscellaneous fines turned over to the Business Office to be applied to the student account for collection.

**Single Room Fee** There is an additional charge for resident students who are housed in a single room depending on residence hall. Please refer to the college website or contact the Business Office for more specifics.

**Student Discipline** Fines are part of the available disciplinary sanctions.

**Technology Fee** A \$275.00 per semester fee is charged to each full-time student for information technology equipment and services that support students’ academic work. These facilities and services include, but are not limited to, the use of all student computer labs on campus, access to a wide range of standard software (e.g., word processing) in labs, electronic mail services and internet access, instructional software used by faculty and students, printing services in labs, help desk and technical support services, and the Fintel Library computer system.

**Telecommunication Fee** A fee of \$150.00 per semester will be charged for use of cable television and network access through each student’s computer. This fee is for each on-campus resident student.

**Unpaid Debt** – Tuition, Fees, and/or Student Loans Student accounts are payable at Roanoke College at the time such charges are incurred. Graduating students with outstanding financial obligations will have a hold placed on their records withholding release of a diploma, transcript and other College services until the debt is satisfied.

Roanoke College regulations prohibit the following for any student whose account with the college is delinquent until the debt has been satisfied: registration for classes, room lottery, graduation, granting of credit, release of transcript, diplomas, schedules and loans.

Delinquent debts may be reported to a credit bureau. Unpaid student accounts which are deemed delinquent or student loans (i.e., Federal Perkins, RC Institutional) may be placed with a collection agency. Legal action may be taken to collect any balance due. If such action is required, the student/borrower will be liable for any cost associated with such action. The student/borrower should understand that collection costs will be a minimum of 33 1/3% of the outstanding balance including any reasonable legal fees.

**Variable Expenses** You will need to purchase textbooks for your college classes. Books will cost approximately \$1,000 for each of the four years of your studies. Transportation and personal expenses should also be calculated in your planning.

## **Method of Payment**

Advance Deposit An advance deposit is required for all students for the Fall and Summer terms. This deposit allows the student to pre-register for classes for the upcoming term and for resident students, it allows them to participate in the room lottery process. The advance deposit is due as follows:

Resident Students..... \$ 800  
Commuter Students ..... \$ 500  
Part-time Students..... \$ 100  
Summer..... \$ 125 (non-refundable)

For new students, the advance deposit is due on or before May 1st and will be refunded, except Summer, in full, for written cancellations received by May 1st. For returning students, the advance deposit is due on or before March 1st and will be refunded, except Summer, in full for written cancellations received by June 15th.

For students not attending Fall term, the Spring term advance deposit is due prior to the student pre-registering for Spring courses and is refunded in full for written cancellations received by December 1st.

The advance deposit will be applied against the tuition and fees charged for the current term. Resident students who request and receive permission to live off campus after June 15th will forfeit \$300 of the required advance deposit. The remainder of fees for each term are billed and due prior to the beginning of each term. Students will not be allowed to check-in with the Registrar's Office until their account is paid in full and all financial arrangements are completed.

### **Monthly Payment Plan**

Those who prefer to pay the comprehensive fee in equal monthly installments may choose among plans offered by Tuition Management Systems, Inc. (TMS). TMS offers several interest-free monthly payment options by providing more manageable cash flow and greater budgeting flexibility for a small enrollment fee of \$65. The most popular of the payment plans is a 10-month plan that begins June 1st and runs through March 1st.

Life insurance is provided for an insurable parent which covers the remaining portion of the student's contract in the event of the parent's death.

Information concerning the available payment plans will be mailed during the Spring. Additional information may be obtained in advance by writing, calling or visiting the website of TMS.

Tuition Management Systems, Inc.  
P.O. Box 0169  
Cincinnati, OH 45274-0169  
Phone: 1-800-722-4867  
Website: [www.afford.com](http://www.afford.com)

### **Withdrawals and Refunds**

The College operates on an annual budget with commitments for faculty salaries and educational and plant expenses made a full year in advance. Therefore, Roanoke College has established a refund policy which is equitable to the College and students. The date of withdrawal used to compute refunds is the date the student last attended class, as recorded by the Registrar's Office. Please note, however, local students not withdrawing from the college but electing to move off campus once the term has started will not receive a refund regardless of the date they move off campus.

For students who withdraw or separate from the College for any reason prior to the beginning of a term, a refund of all tuition, room, board, and fees paid will be made, less the advance payment required of all students, provided a written notice is presented to the Office of the Registrar by the matriculation date.

If an enrolled student withdraws before the 60% point of the period of enrollment, a refund of tuition, room, board, and activity, technology, and telecommunication fees will be calculated using calendar days and pro-rated based on the student's date of withdrawal. Any financial aid that is not earned must be



returned to its source. The calculation of the return of these funds may result in the student owing a balance to the College or Federal Government. Federal funds will be returned in accordance with federal regulations. In addition, balances owed to Roanoke College – such as parking fines, student health fees, disciplinary fines, library fines, etc. – will be deducted from any refund due before any disbursement is made to the family.

In accordance with federal regulations, the College believes that it is the responsibility of the family to pay affordable educational costs before any financial aid is paid. In view of this basic approach to the family support, any charges to a student account that are assessed for the period of enrollment prior to a withdrawal or suspension are viewed as first having been paid by the student and his or her family. Therefore, all financial aid will be returned to its source before any funds will be refunded to the student or his or her family.

Upon withdrawal from the College for any reason, the Housing Agreement is terminated and resident students forfeit any current or future room assignments. Residents must vacate their living areas within 48 hours. Upon readmission to the College, it is the student's responsibility to contact the Residence Life staff to arrange for housing.

For medical withdrawal for physical reasons, where the student is physically disabled for the remainder of the term (as determined by a certified, licensed physician or the Director of the College Health Services), the refund is calculated based on the unused portion of total fees (prorated for the entire length of the term).

For medical withdrawal for psychological reasons, where the student is disabled for the remainder of the term (as determined by a certified, licensed professional counselor or College Counseling Center staff), the refund is calculated based on the unused portion of total fees (pro rated for the entire length of the term).

Students granted a medical withdrawal for mental health reasons must receive permission from the College to re-enroll. Such permission is contingent upon the Dean of Students or his designee determining that the individual is capable of meeting the demands of the College environment without their behavior being detrimental to their personal well-being, the well-being and/or educational progress of other students, or the educational process of the institution.

Students who have medically withdrawn for psychological reasons must be out of school for a period of not less than ninety days from the effective date of the withdrawal. Application for readmission will be considered only for subsequent terms that begin after the 90 day period has passed. Students wishing to return following a medical withdrawal for psychological reasons must reapply at least one month prior to the beginning of the term in which reinstatement is desired.

In order to assist the Dean of Students or his designee in making a determination, the individual must give consent to their physician/mental health care provider to discuss the individual's situation with appropriate college officials. The final determination shall be at the sole discretion of the College and for reasons deemed satisfactory to the College. Depending on the circumstances, the Dean of Students or his designee may determine that a student is capable of returning to the classroom but not to college housing.

### **Special Note**

The College reserves the right to make changes in requirements, fees, course offerings, or other specified policies at any time.

The College neither gives final examinations, grants a degree, nor issues grade report forms or transcripts of credits unless satisfactory arrangements have been made with the Business Office for payment of all fees. Should payment of any fee become delinquent (10 days overdue) the student may be excluded from classes, and future use of credit may be denied.

## **ACADEMIC HONORS AND AWARDS**

Outstanding academic and extracurricular achievement is readily recognized at Roanoke College. Students who attain and maintain high levels of performance are honored each year in many ways.

### **Semester Honors**

**The Dean's List** Students are placed on the Dean's List of Distinguished Students if their semester grade point average for any Fall or Spring term is at least 3.5 but less than 4.0, with no grade below "C" in any course. The student must have been enrolled for credit in at least four units, three of which were for a letter grade (excluding pass/fail and audit).

**The President's List** Students are placed on the President's List of Distinguished Students if their semester grade point average for any Fall or Spring term is 4.00. The student must have been enrolled for credit in at least four units, three of which were for a letter grade (excluding pass/fail and audit).

### **Junior and Senior Scholars**

**Junior Scholars** A student classified as a junior during or at the end of the Fall term who has earned a minimum of 16 units at Roanoke College with a cumulative grade point average of 3.00 or higher is awarded a certificate of recognition as a Junior Scholar by the faculty.

**Senior Scholars** Annually, the department or coordinator in each major may recommend to the Dean as Senior Scholar a student whose work in that field has been most exemplary. In order to be considered, a student must have at least a 3.2 cumulative academic average and must have earned at least 25 units of credit, of which at least 17 units have been earned at Roanoke College. Eligibility is determined from among currently enrolled students on the basis of their academic records as of the end of the Fall term.

### **Degrees with Distinction**

Degrees **Cum Laude**, **Magna Cum Laude**, or **Summa Cum Laude** are conferred upon students who have earned a cumulative grade point average of at least 3.4, 3.7, or 3.9, respectively, for all courses taken at Roanoke. The student must have completed a minimum of 17 units (excluding physical education and co-curricular activities) at Roanoke College to receive a degree with distinction.

### **Honors in Majors**

Qualified students may apply for honors in their major(s) by completing an honors project, which will consist of a program of independent study culminating in a paper, artistic creation, or performance. Students who meet the criteria given below will receive the designation "Honors in (field of study)" on their diplomas.

Students applying for major honors work must have at least a 3.4 grade point average in the major, calculated at the time of their application for honors work. In order to receive honors, students must have at least a 3.4 GPA in their major at graduation.

The honors project must be sponsored by a faculty member or members in the student's major, who will serve as the primary advisor(s) for the project, and by a committee composed of the primary advisor(s) and not fewer than two additional faculty. (Advisors are encouraged to include a faculty member from outside the student's major on the committee.)

Honors work is undertaken in the senior year or in the Summer prior to the senior year. While the project may be based on previous work, e.g., a seminar paper or independent study, it must represent a significant and original project over and above any past work. Application for major honors work is made the semester or Summer prior to undertaking the project.

A student applying for major honors work must submit a proposal to his or her committee. If the committee and department administering the student's major approve the proposal, permission to enroll in honors work in the following term will be forwarded to the Associate Dean for Academic Affairs. At the discretion of the department a student may take one unit of honors work in one semester or two one-half units over two semesters. The department will determine whether honors credit may be used as an elective

in the major. The application form is available in the Office of the Associate Dean for Academic Affairs and Administration.

The committee will evaluate the completed project based on the final product and on an oral examination. Projects other than research papers must include a narrative essay describing the work.

The primary advisor(s) will assign a letter grade for the project after consulting with the other committee members. Students completing the one-half unit honors course will receive a grade of "NG" at the end of the first term of the project; upon completion of the second half-unit course, the grade for the entire project will be assigned to both courses. If the student does not complete the second half-unit course, a letter grade will be assigned to the first.

Students whose projects receive a grade of "A-" or higher will be awarded honors, provided they have a 3.4 GPA in their major at graduation. Departments are encouraged to arrange a public forum to allow students receiving major honors to present their work.

### **Valedictorian and Salutatorian**

The valedictorian and salutatorian of the senior class will be selected from among those graduates who have completed at least 22 units (excluding health and human performance and co-curricular activities) while enrolled as full-time students at Roanoke College.

### **Honor Societies**

A high degree of excellence in certain fields will bring the student the distinction of invitational membership into one or more of the honorary fraternities with chapters on campus. Among these groups are the following:

**Alpha Chi** National college scholarship society dedicated to the stimulation of sound scholarship and devotion to truth. Eligible members are selected from the top 5 percent of the junior class and the top 10 percent of the senior class. Juniors must have at least a 3.8 cumulative grade point average, and seniors must have at least 3.5. Students must also have earned at least eight units at Roanoke College and possess exemplary character.

**Alpha Epsilon Delta** National honorary society recognizing outstanding academic achievement among students aspiring to a career in medicine, dentistry, pharmacy, veterinary and other health professions.

**Alpha Kappa Delta** National honorary society recognizing superior achievement in sociology.

**Alpha Kappa Psi** National business professional fraternity is open to all Business Administration and Economics majors in good academic standing.

**Alpha Lambda Delta** National honorary fraternity for freshmen whose grade point averages are 3.5 or higher after the first term.

**Alpha Psi Omega** National honorary dramatics fraternity recognizing excellence in stagecraft.

**Beta Beta Beta** National honorary biological society for students with a superior academic record.

**Delta Mu Delta** National honorary society recognizing superior academic achievements of majors in business administration.

**Kappa Delta Pi** International honor society in education.

**Omicron Delta Epsilon** National honorary Economics society is open to Economics majors with excellent academic standing. The student must have an overall grade point average of at least 3.0 and at least a 3.0 grade point average in four or more Economics courses.

**Omicron Delta Kappa** National leadership honor society for college students recognizes and encourages superior scholarship, leadership, and exemplary character.

**Phi Alpha Theta** National honor society for history majors with superior records.

**Phi Beta Kappa** The oldest and most prestigious academic honor society in the United States. The keyholders among the faculty and staff of Roanoke College maintain a Phi Beta Kappa chapter (Nu of Virginia) on campus. Student members are elected at the discretion of the keyholders on the basis of a high grade point average in liberal art courses, breadth and depth of studies in the liberal arts, and good character. Students with very high grade point averages become eligible at the end of their fifth semester; the majority of members are inducted in their senior year. There is no set formula for election; however, the national society requires students to have the equivalent of at least two years of algebra and two years of college-level foreign language instruction (through the intermediate level).

**Pi Delta Phi** National honor society for students with a superior record in French.

**Pi Gamma Mu** International honor society recognizing superior achievement in social sciences.

**Pi Mu Epsilon** National honor fraternity for excellence in mathematics.

**Pi Sigma Alpha** National political science honor society for students with a superior academic record.

**Psi Chi** National honor society recognizing superior achievement in psychology.

**Sigma Delta Pi** National honor society for students with a superior record in Spanish.

**Sigma Tau Delta** National honor society recognizing superior achievement in English language and literature.

**Society of Physics Students** and **Sigma Pi Sigma** National organization which promotes educational activities for all students interested in physics.

**Student Affiliate Chapter of the American Chemical Society** Honorary society for chemistry majors designed primarily to promote interest in and appreciation for the science of chemistry and related fields.

**Theta Alpha Kappa** National honor society for theology and religious studies.

**Xi Theta Chi** Honorary fraternity for students showing proficiency in modern languages.

## **Prizes and Awards**

High standards of academic achievement and personal conduct are acknowledged at Roanoke College in a series of annual awards and prizes.

**Karen Adkisson Award** A book award given annually to a first-year student for high achievement in the introductory biology course sequence.

**Alpha Kappa Delta Award** A prize awarded annually to a senior sociology major who is a member of Alpha Kappa Delta and who most exemplifies the objective of AKD: "to promote an interest in the study of sociology, research of social problems, and such other social and intellectual activities as will lead to improvement in the human condition.

**Alpha Kappa Psi Key and Certificate** This professional business fraternity awards the key and certificate to the graduating senior with the highest grade point average.

**Alpha Lambda Delta Award** An award presented to the Alpha Lambda Delta member who is a graduating senior with the highest scholastic average.

**Alpha Psi Omega Award** An award presented for outstanding service and contribution to theatre arts at Roanoke College.

**American Chemical Society Student Affiliate Award** One year membership in the ACS student affiliates is provided by the Chemistry department for students showing outstanding promise in the field of chemistry.

**American Institute of Chemists Student Award** A certificate and one-year membership for the American Institute of Chemists is awarded to a senior in recognition of potential advancement in the chemical professions.

**Karl W. Beck Memorial Prize** A prize in money made possible by gifts of friends in memory of the late Karl W. Beck, who was a professor and chair of the psychology department. It is given for excellence in psychology.

**C. Randolph Benson Sociology Award** A prize awarded annually to a senior sociology major who has demonstrated academic excellence and leadership in the field of sociology.

**Dr. C.W. Bondurant Student Affiliate Award** An annual award, in honor of Dr. Charles W. Bondurant, given by the students of the American Chemical Society Student Affiliate chapter to a Chemistry or Biochemistry major who has excelled both in the study of Chemistry and involvement with the Roanoke College community.

**Dr. Charles W. Bondurant Summer Scholars** A stipend provided by Dr. C.H. Fisher and others to allow undergraduate chemistry majors to perform research during the Summer under the supervision of a staff member. Recipients are selected by the chemistry department faculty.

**John T. Bowman Memorial Award** A prize in money made possible by the income from a gift by Mrs. John T. Bowman of Salem, Virginia, awarded to a senior for outstanding work in the field of religion.

**Harry J. Breithaupt Award** The Harry J. Breithaupt Award for an original essay judged as excellent in the field of United States history.

**Annie Terrill Bushnell Prize** A prize in money awarded annually by the estate of Mrs. William A. Anderson, Jr., in memory of her mother, Annie Terrill Bushnell, to the woman student who has shown the highest qualities of leadership and loyalty to the College and to her fellow students.

**The Reverend Dr. John E. Bushnell Prize** A prize in money awarded annually by the estate of Mrs. William A. Anderson, Jr., in memory of her father, The Reverend Dr. John E. Bushnell, to the male student who has shown the highest qualities of leadership and loyalty to the College and to his fellow students.

**Gertrude B. Camper Outstanding Prospective Teacher Award** Student teaching evaluations and recommendations, in conjunction with overall and education grade point averages, will be the primary selection criteria. Recommendations related to other field experiences, including the EDUC 338 internship and the EDUC 340 tutoring practicum will also be considered. A student must hold a minimum 3.0 grade point average, both overall and in education, in order to be considered for this award. Recipient's name will be engraved on a plaque to be displayed in the Education department, and the recipient will receive a cash award.

**Joanne Leonhardt Cassullo Prize in Art History** The Joanne Leonhardt Cassullo Prize in Art History is a monetary prize that commemorates Ms. Cassullo's generous support of our program. She is a 1978 graduate of Roanoke College and member of the Board of Trustees. This award will be given annually to the outstanding student in art history.

**Julia McBriety Chalfant Memorial Award** An award made possible by the income from gifts of family and friends in memory of the late Julia McBriety Chalfant '63 for excellence in mathematics.

**Chemical Rubber Company Freshman Chemistry Award** A book prize, awarded annually by the chemistry department and the Chemical Rubber Company of Cleveland, Ohio, to the student who has shown the greatest achievement in general chemistry.

**Community Service Award** A prize awarded annually to a senior(s) sociology major who has contributed significantly to the local community through work in social services, social justice, and community issues.

**Delta Kappa Gamma Society International Award** Outstanding woman scholar in education.

**Richard deOlazarra Award** This award was established to honor Richard deOlazarra who taught Marketing for 30 years. The prize will be awarded annually to an outstanding and deserving rising senior in the marketing concentration.

**Julius D. Dreher Endowed Scholarship Award** Dr. J. D. Dreher, President of Roanoke College from 1878 to 1903, provided a bequest to “endow a prize scholarship in English language and literature to be awarded annually in the junior class under regulations to be established by the English department.” This scholarship is applicable toward tuition during the senior year at Roanoke College. Only English majors of junior standing are eligible for the award.

**John Todd Faw Memorial Award** An annual monetary award granted to that Roanoke College student who best exemplifies the spirit of J. Todd Faw, a Roanoke College sophomore at the time of his death in 1982. The recipient should demonstrate an active concern for the Roanoke College community; possess the personal qualities of concern for others, intellectual curiosity, and initiative; and have the commitment and potential to improve society.

**Financial Executives International Award** An award given by Financial Executives International to students who are recognized as outstanding students in finance and accounting. The recipients are selected by the Business Administration and Economics Department faculty.

**Fine Arts Awards Visual Arts, Theatre, Music Prizes** in money awarded annually to increase interest and reward excellence in the department of fine arts, given to those students whose work in the department is most outstanding for the year.

**Lawrence D. and Mary A. Fisher Scholarship** The income from a gift provided by Dr. and Mrs. Charles Fisher is used to assist an outstanding student majoring in Chemistry or Biochemistry.

**Fortnightly Club Award** An annual monetary award to a rising junior who has achieved excellence in academics and is active in community service and College-related activities.

**Herta T. Freitag Mathematics Award** An award made possible through the generosity of Herta T. Freitag, mathematician, educator, and long-time friend of Roanoke College. The award is made annually to an outstanding senior mathematics major, selected by the mathematics faculty of Roanoke College.

**Patricia M. Gathercole Literature Award** This monetary award is given to the student (or students), majoring or minoring in a Foreign Language, who has done exceptionally well in the study of French, German, or Spanish literature.

**Sam Robert Good Award** An award established by gifts from Mr. and Mrs. James Cheston and the theatre program to honor Professor Good for his contributions to theatre arts at Roanoke College. It is a prize in money awarded each year to a student who has demonstrated both theatrical and academic excellence at Roanoke College.

**Health and Human Performance Award** A one-year membership in the American Alliance of Health, Physical Education, Recreation and Dance(AAHPERD) or National Athletic Trainers' Association (NATA0, and a cash award presented by the Department of Health and Human Performance to an upper-class health and human performance major who has excelled in work performed during the past year.

**Pendleton Hogan Mary Queen of Scots Award** The income from a gift by Pendleton Hogan '29, aids Roanoke College students who research the Mary Queen of Scots era.

**James Lewis Howe Award** Awards provided by the Blue Ridge Chapter of the American Chemical Society and named in honor of James L. Howe, a former member, presented to outstanding chemistry or biochemistry majors.

**International Relations Award** An award presented annually to the graduating senior majoring in international relations who has excelled in his/her field and who has attained at least a 3.0 cumulative grade point average.

**The Brian Keith Award** The Brian Keith Award is awarded annually as a prize for the history student who has shown leadership and service within the Roanoke College student Historical Society.

**Daniel Poe Klein Scholarship** This scholarship award was established by gifts from his parents, brothers David and Thomas, and friends in memory of Daniel Poe Klein, a member of Pi Kappa Phi. It is presented annually to the male rising senior who has demonstrated outstanding talent in the field of education and who has shown exemplary moral leadership in the College community.

**Kim Kyusik** A monetary award presented to students who have demonstrated academic excellence in the field of East Asian history.

**Dr. Philip C. Lee, Jr. Endowed Scholarship** An award made annually to a Lee Scholar, who is a Roanoke College Biology major, to support research during the Summer under the supervision of a Biology department faculty member. This endowment was established by family, friends and colleagues in memory of Dr. Philip C. Lee, Jr., a longtime Biology department faculty member.

**Gary Wesley Leonard Memorial Award in Biology** An award made possible through anonymous gifts of friends and the Beta Beta Beta national honorary biology society in honor of Gary Wesley Leonard, a biology major at the College at the time of his death. Presented annually, the recipient is chosen by the staff of the biology department from the members of the junior or senior class on the basis of general academic excellence, major work of high proficiency in the field of biology, and good student citizenship. The name of the winner is inscribed on a perpetual plaque.

**Evans W. Lindsey Memorial Prize** A prize in money provided annually through a gift by the late Mr. J.W. Burress, bestowed on that student who, on an advanced level, has done outstanding work in the field of modern foreign languages and served as an inspiration to fellow students.

**Darryl W. Lowry Endowed Scholarship Award** This award is given to the outstanding rising senior Economics major. The recipient is chosen by the Economics faculty, and the scholarship is awarded for the following academic year.

**Jesse Lee and Mary Elizabeth Lucado Award** A monetary prize given by Joseph A. Lucado, through an endowment, to the outstanding Senior in teacher education. The recipient's name will be engraved on the permanent plaque.

**Jesse Lee and Mary Elizabeth Lucado Endowed Scholarship** An endowed scholarship given to one student in a teacher preparation program and one student in Health and Human Performance, with a minimum of 3.0 GPA and with preference given to those who are active in campus academic, social, and sports life in leadership roles.

**Mathematical Association of America Membership Award** One-year memberships in the Mathematical Association of America given by the MCSP Department to recognize outstanding achievement in mathematics.

**William G. McGowan Scholar** A full tuition award for the senior year presented to an outstanding student pursuing a major in Business Administration or Economics. The William G. McGowan Charitable Fund, Inc. makes this award possible as a way to increase the awareness of the contributions made by William G. McGowan founder and Chairman of MCI Communications Corporation, to the fields of business, telecommunications and entrepreneurship. As part of a competitive process, Business Administration and Economics faculty select a recipient from among juniors who have excellent academic records and who have demonstrated outstanding qualities of character and leadership.

**The Merck Award** Provided by Merck and Company, Inc., it is a Merck Index to an outstanding graduate in Chemistry or Biochemistry.

**Susan Millinger Award** Created by the Department of History to recognize the contributions of Susan Millinger, who retired in 2007 after 32 years of service, this award honors students who have done exemplary work in the fields of ancient, medieval, or the history of gender.

**The Anna Morgan Award for Excellence in Communications** An award to a senior who excels in communications and who has demonstrated a commitment to the field.

**Conrad Muldenhauer Memorial Scholarship** This scholarship, funded by family and friends of Conrad Muldenhauer, will provide financial assistance for students who wish to take part in the Roanoke College Oxford Summer Scholars program. Conrad took part in this program in 1992 and considered it an experience of a lifetime. The selection of scholarship recipients will occur through a collaboration of Roanoke College History Department and the Office of Financial Aid.

**The Andrew Murphy Award for Fiction** An annual prize in “Bucks”, for the best short fiction written by an undergraduate at Roanoke College. The anonymous donor requests that the award be determined by at least three members of the English department faculty. The prize-winning selection will be published in the college’s student literary magazine, with appropriate respects to Professor Andrew Murphy.

**Ronald R. Oetgen Organic Chemistry Award** This award is named in recognition of the service and leadership of Ronald R. Oetgen, Professor of Chemistry, who taught at Roanoke from 1967 to 2006. A certificate of accomplishment and a book are presented to the outstanding student in the two-semester organic chemistry course.

**Outstanding Achievement in Physics** A gift given by the MCSP Department to recognize outstanding achievement in physics.

**Outstanding Junior Psychology Major** A gift given to the junior student or students deemed by the Faculty as having demonstrated outstanding academic achievement and potential for continued success in Psychology.

**Outstanding Sophomore Health and Human Performance Major Award** This award recognizes a sophomore Health and Human Performance major who shows promise in the field of health and physical education through involvement in professional activities and service. To be eligible for the award students must have completed 13 course units, be in the process of completing four courses in the major, and show a high degree of achievement in their academic work. The minimum GPA requirement will be 2.75. The recipient receives a one-year membership in the American Alliance for Health, Physical Education, Recreation and Dance and will be honored by having his/her name inscribed on the departmental (Outstanding Sophomore Health and Human Performance) plaque.

**Outstanding Students in Business Administration, Economics, Accounting, Business Information Systems, Business Leadership, Finance, Global Business, Health Care Administration, Human Resource Management and Marketing Awards** are presented annually to seniors in Business Administration and Economics who have excelled in their fields. Also, awards are presented annually to seniors who have excelled in the concentrations of Accounting, Business Information Systems, Business Leadership, Finance, Global Business, Health Care Administration, Human Resources Management, and Marketing.

**Outstanding Student in French** Book prizes awarded annually by the French government to the best and most promising students of French.

**Outstanding Student in German** Book prizes awarded annually by the German Embassy to students of the German language who have excelled in their work during the past year.

**Outstanding Student in Health Care Delivery Concentration** A prize awarded annually to a senior whose work has been most outstanding in the health care delivery concentration. The minimum grade point average is 3.2.

**Outstanding Student in the Human Development Concentration** This award is given annually to the student who has demonstrated outstanding academic achievement in the human development concentration and has shown potential for continued success in the field of developmental psychology.



**Outstanding Student in Spanish** Book prizes awarded annually by the foreign language department to the best and most promising students of Spanish.

**Mamie S. Patterson Travel Award** An award given to students based on their academic achievement in the study of a foreign language and their contribution to the promotion of foreign language study. Awarded for use in conjunction with a May travel course.

**George G. Peery Achievement Award** An award given annually, the Peery Achievement Award was established in 1986 in honor of Dr. George Peery, former chairman of the Biology Department. The recipient, a junior or senior member of the Tri-Beta Society, is chosen by the membership of Tri-Beta and the faculty of the Biology Department on the basis of both academic achievement and, in particular, outstanding service to the Tri-Beta Society and the Biology Department. The name of the winner is inscribed on a perpetual plaque.

**Phi Lambda Upsilon** A national honor society for outstanding students of Chemistry and Biochemistry.

**Psi Chi Achievement Award** A gift given to the Psi Chi member who has best exemplified excellence in scholarship, leadership, and service. The recipient is chosen by student and faculty members of Psi Chi, the honorary society in Psychology.

**Physics Society Award** A prize in money awarded to the outstanding freshman in physics.

**Dr. Harry E. Poindexter Award** A prize in money given to a senior history major who has demonstrated academic excellence and leadership in the field of history.

**The R. Dan Richardson Award** The department of History established this award to honor Dan Richardson and his 30 years of dedicated service to the College. The award is presented to a senior who has demonstrated excellence and promise for growth in modern European history.

**The Roy H. Ritter Southern History Prize** A monetary prize awarded annually in memory of Roy H. Ritter '26 to a junior or senior who has demonstrated academic excellence and outstanding achievement in the study of the history of the South. Mr. Ritter was a partner in the engineering firm of Whitman, Requardt and Associates and one of America's outstanding civil engineers.

**Jeanne and Ray Robinson Endowed Prize** An annual monetary award given to an outstanding journalism student as chosen by the English faculty. This Award was established by a generous gift from Jeanne and Ray Robinson.

**The Will Selzer Political Science Award** A prize in money awarded annually to that graduating senior majoring in political science who has demonstrated academic excellence and outstanding potential for continued scholarly growth.

**The Dr. William A. Sandridge Leadership Award** An award given annually in honor of Dr. William A. Sandridge and made possible by the faculty of the Business Administration and Economics Department. The recipient is selected by the Business Administration and Economics faculty from among those graduating seniors who have demonstrated outstanding leadership qualities both within the department and in the campus community.

**Frank E. Snow Memorial Award** A monetary award given to student (s) majoring in a Foreign Language.

**Teachers of Promise Award** This award recognizes outstanding preservice teachers who show a commitment to pursuing teaching as a career through involvement in professional development activities, service and academic performance. The recipients, along with peers from the other 36 Virginia institutions with approved teacher education programs, are recognized as "Teachers of Promise" by the Virginia Department of Education and by the Virginia Milken Educator Network.

**Undergraduate Award in Analytical Chemistry** A six month subscription to the journal, Analytical Chemistry, presented to the student showing the most potential for the field.

**Virginia Society of Certified Public Accountants Award of Achievement** An award presented annually to the outstanding student in Accounting. The recipient is selected by the Accounting faculty.

**Wall Street Journal Award** Presented annually to an outstanding graduating transfer student (20 units or less earned at Roanoke College) in Economics or Business Administration. The recipient receives a year's subscription to the "Wall Street Journal", the "Wall Street Journal" Medal, and will be honored by having his or her name inscribed on the "Wall Street Journal" Plaque.

**Mack Welford Award** This award recognizes an outstanding Education student who is working toward an Education minor or full teacher licensure, has a minimum GPA of 2.5, and has also been engaged in service to the community.

**The Mary Cooper Williams Memorial Award** An award, established by Dr. L. Grady Cooper '22, and his wife, Miriam Greever Cooper, is presented annually to an outstanding student majoring in religion and philosophy with a preference given to Lutheran students who are studying for the ministry or service in the church.

**Charles C. Wise Poetry Award** An award made possible by an anonymous donor, for an original poem judged outstanding by the members of the English department.

**Matthew M. Wise Scholarship Award** This scholarship prize was established in honor of Dr. Matthew M. Wise for his 30 years of dedicated service as a faculty member in Roanoke College's English department. It is used to support the senior English major who is most outstanding academically.

**The Reverend Dr. Paul L. Yount Prize** A prize in money given annually, in memory of the Reverend Dr. Paul L. Yount '10, is given annually to the pre-ministerial student who has shown the highest qualities of leadership.

**Zeno Contest** The Zeno Contest is a critical thinking contest sponsored annually by the Religion and Philosophy Department and open to all Roanoke College students. A modest cash prize and an extravagant trophy are awarded to the student with the most cogently reasoned solution to a logical puzzle.

## ACADEMIC SERVICES

### Goode-Pasfield Center for Learning & Teaching

The Goode-Pasfield Center for Learning & Teaching, located in the Fintel Library, offers a variety of programs designed to promote student success in the classroom and after graduation. The staff adheres to a developmental approach, recognizing that students learn best when they actively participate in making decisions about their fields of study and future careers.

### Freshman and Undeclared Student Advising

The Goode-Pasfield Center for Learning & Teaching coordinates academic advising for freshmen and undeclared students. Faculty and professional advisors are available for the academic and developmental advising of entering freshmen, transfer freshmen, and all other students who have yet to declare an academic major. Advisors have a working knowledge of the Roanoke College community and assist the student in the exploration of academic and professional goals. Freshman advisors are assigned to entering students during the pre-registration process.

### Entering Freshman and Transfer Student Pre-Registration

Beginning in May and continuing through August, the Goode Pasfield Center for Learning & Teaching will send all new freshmen and transfer students (who have made their advance deposit with the Admissions Office) information on pre-registration. During summer orientation or a telephone appointment with a summer academic advisor, new students will pre-register for those courses in which they wish to enroll for the Fall term. Academic advisors will be available for course advising throughout

the pre-registration period. All pre-registered full-time students are expected to attend the College's fall orientation program and to finalize the registration process at that time.

### **The Writing Center @ Roanoke College**

The Writing Center @ Roanoke College, supervised by staff in the Goode-Pasfield Center for Learning & Teaching and located in the Fintel Library, is a place where writers working in any discipline and at any level of competence meet with trained peer tutors in informal, one-on-one tutoring sessions that focus on writing. In half-hour long tutorials, tutors talk with writers about their academic, creative or professional writing, helping writers to do such things as brainstorm ideas, improve organization, incorporate sources into a research paper, polish the language in a poem or short story, or learn to identify and correct grammar and style problems. The Writing Center also sponsors workshops and creative writing playshops on a variety of writing-related topics.

### **Subject Tutoring Program**

A centralized subject tutoring program, housed in the Fintel Library, is supervised by the staff of the Goode-Pasfield Center for Learning & Teaching. Peer tutors offer regularly scheduled sessions designed to assist students in improving their grades and developing more effective study habits. Features of the program include training sessions for tutors and ongoing evaluation.

### **Disability Support Services**

The Goode-Pasfield Center for Learning & Teaching maintains the documentation of students with diagnosed learning disabilities and Attention Deficit Hyperactivity Disorder. The Center's staff facilitates students' consultation with faculty members and academic advisors regarding reasonable accommodations. Services such as extended-time testing and the tape recording of classes are facilitated by the office.

### **Office of Career Services**

The Office of Career Services provides students with career planning programs. Services include such activities as self assessment, career exploration, identification of educational options (college majors and graduate/professional schools), the arrangement of internships, and the job search process. Through group workshops and individual appointments, students are guided through career planning, resume writing, interview skills, and other areas necessary to this process. Assistance is provided in networking with alumni regarding internships, externships, and full-time job placement. The goal of the Office of Career Services is to provide students with the skills necessary to enter the world of work upon graduation or upon completion of graduate school. All services of this office are available to alumni as well.

### **Educational Centers**

#### **Center for Church and Society**

The Roanoke College Center for Church and Society aims at bringing Christian religious and moral perspectives particularly in their Lutheran interpretation – to bear on contemporary challenges to church and world. To further this goal, the Center encourages and supports interdisciplinary studies, faculty seminars on-campus, and cross-cultural studies off-campus, and sponsors lectures on contemporary issues as well as continuing education programs for clergy and laity.

#### **Center for Community Research**

The Center for Community Research assists faculty members and students in conducting research projects in the local community. These projects provide students with valuable and practical first-hand experience in research design, questionnaire construction, interviewing, computer use, data analysis, and report writing.

In the past few years, students have conducted a statewide survey during Virginia's 2006 campaign for U.S. Senate, a survey of Roanoke College alumni, a poll of Roanoke public housing residents, and surveys in several recent political campaigns.

### **Information Technology**

The Information Technology department manages all computer and media support for the College. The Roanoke College campus is a fully networked campus with data, voice, and video services extending to all campus buildings and residence hall rooms. The fourteen student computer laboratories with 268 networked multimedia computers distributed throughout the campus provide the students with excellent access to the computing facilities. The campus network – RCNet – provides students access to a wide range of resources. The World Wide Web and e-mail services can be accessed from the public access laboratories as well as the student’s residence hall room. Over 100 microcomputer applications are available including spreadsheets, word processing, and database applications from the student computer laboratories. Fifty computers also run the LINUX operating system for students studying Computer Science.

On entering Roanoke College the student begins immediately utilizing the information resources. All entering students are provided e-mail accounts and the resources required for publishing their own World Wide Web homepage. Students are also provided access to a private network storage area that is accessible from the student computer laboratories or from a personal computer in the residence hall room.

Roanoke College’s Instructional Technology Resource Center, located on the first floor of Trexler Hall, is a full service facility for the audio-visual needs of the campus and provides equipment for use in preparing and giving presentations

Computers are an integral part of the curriculum at Roanoke College. The Intellectual Inquiry Curriculum, as well as the Computer Science major, relies on the excellent access to information and services provided by Information Technology.

## **Libraries**

### **Fintel Library**

Named in honor of Dr. Norman Fintel, eighth president of Roanoke College, and his wife, Jo, the Fintel Library offers a collection of over half a million total items. The facility is handicapped accessible, offers seating for over 400, includes individual and group study rooms, has a “silent study” area, a campus computer lab, and the Goode-Pasfield Center for Learning & Teaching.

More than 3000 new items are added to the collection annually. Besides the sheer size of the collection, Fintel library is proud to offer the latest in electronic journals (providing access to the full text of over 14,000 titles) and a wide selection of multi-media materials. Among the most popular items is the 1000+ volume DVD collection. In addition the library is also a selective depository library for United States Government Documents.

Fintel Library has a combined catalog and shares its collection with the Wyndham Robertson Library at Hollins University through a reciprocal borrowing agreement. This agreement has the effect of placing an additional 300,000 volumes in the hands of our students. A weekday courier service provides delivery within 24 hours of a request.

The Fintel Library houses the Roanoke College Archives. In addition to the historical records relating to the College, the holdings include rare books, the papers of both former Secretary of the Treasury Henry H. Fowler and former Congressman James R. Olin, and the photographs of E. Howard Hammersley.

The Fintel Library staff strives to provide students with the very highest level of resources and service.

### **Fine Arts Library**

Located in F.W. Olin Hall, the Fine Arts Library contains play scripts, music scores, art slides, videos, sound recordings, and a reference book collection. Hours vary from semester to semester.

## **ACADEMIC REGULATIONS AND PROCEDURES**

### **Advising**

Academic advisors are faculty and staff members who are available for consultation in the planning of students' academic programs. Students who have declared majors are assigned advisors in their major departments; freshmen and students who have not declared a major may be assigned a faculty advisor or an advisor from the Goode-Pasfield Center for Learning & Teaching.

Students should contact their advisors when planning their programs, when pre-registering and/or registering, and when needing advice or assistance relating to academic concerns or questions. Academic advisors can assist students in reviewing academic performance, exploring possible majors and other programs, examining special educational opportunities (e.g., internships, research, international study), or planning for graduate school. Students may also obtain supplemental academic and career assistance by contacting staff in the Office of Career Services.

Although faculty and staff can provide valuable assistance and guidance for students, the ultimate responsibility for devising appropriate schedules, meeting degree and program requirements, and complying with all academic regulations belongs to the student. Therefore, students should be familiar with the College's requirements, their major(s) and other program requirements, this Catalog, and their own academic transcripts.

### **Registration**

Students must be officially registered for their courses in order to earn academic credit. Students pre-register and register for courses on-line via their WebAdvisor account through the Roanoke College homepage. Pre-registration and registration information, including times and locations, is provided by the Office of the Registrar at [www.roanoke.edu/registrar](http://www.roanoke.edu/registrar).

### **Auditing Courses**

Students who do not wish to receive credit for courses may enroll as auditors. Auditors are not required to take quizzes, tests, and examinations, to complete projects, or to submit papers. They are, however, required to meet the course attendance policies and to participate in class discussions.

Instructors will determine whether or not students have met these requirements and, thus, whether or not to have the notation "AU" entered on the students' transcript. Individuals outside a degree program who wish to audit must apply for and be admitted to special-student status. Students registering to audit a course must inform the Office of the Registrar in writing at the time of registration or within the add period for the course at the beginning of the term.

### **Course Load/Overload**

The normal load of a student is eight units for each academic year. The student is expected to enroll in four units in each regular term; however, three units constitutes full-time status. A minimum of 33 academic units (including at least one unit of intensive learning), and two one-fourth units of physical education activities (or the equivalent) should be completed over a four-year period. In addition, students in the Honors Program must complete a Plenary Enrichment Program for each year the student studies on campus.

The College recognizes that some students must complete their study as rapidly as is consistent with sound academic standards. Students may therefore carry an academic overload commensurate with their ability.

An overload fee of \$750.00 per unit is charged for each full unit taken in excess of five units. Approval to enroll in six or more courses requires the additional approval of the Associate Dean for Academic Affairs and Administration.

Further acceleration is possible by enrolling in May terms (beyond the one required) and/or Summer sessions. Thus, a student may enter the College in January, June, July, or August. A student may complete the requirements for a degree in three regular sessions (i.e., six semesters) and three Summer sessions.

### **Academic Integrity**

Roanoke College is committed to the maintenance of the highest possible standards of academic integrity among all of its constituents. To promote an atmosphere conducive to a free quest for intellectual fulfillment, the administration, staff, students, and the faculty have the responsibility and the obligation to adhere to and to enforce the standards of the academic integrity policy as defined and outlined in the brochure Academic Integrity at Roanoke College. Students are required to make a written commitment to support this policy and to work fully with the campus community in sustaining the academic integrity of Roanoke College.

It must be recognized that there will be those individuals who willfully choose to violate the governing principles which this institution has adopted for the independent search for knowledge. When such violations are suspected, it is the duty of the institution's members to report those who are suspected of such acts. While striving to sustain a consistently high level of academic integrity, Roanoke College also strives to ensure due process to all who have been charged with academic integrity violations. No one person has the right to assume the enforcement of this policy; thus, each charged with a violation, as well as each bringing the charges, has the right to a full hearing.

The Academic Integrity Council consists of the Associate Dean for Academic Affairs and Administration, members of the faculty and professional staff appointed by the President, and student members elected annually by the student body. Members of the Council are chosen for Academic Integrity Panels and Academic Integrity Boards, which hear all cases involving charges of violations of academic integrity. Violations include cheating in any form, plagiarizing, lying in direct association with academic matters or during the process of an academic integrity hearing or investigation, impeding an investigation, denying access to academic materials, or other actions that violate student regulations or public statutes for the purpose of committing or supporting an academic integrity violation.

All violations of academic integrity are viewed with gravity by the College community. Possible penalties include "F" in the course, dropping a student from a course with a grade of XF (which is treated as an "F" in the computation of the grade point average), Academic Integrity Probation, Academic Integrity Suspension, and permanent expulsion from the College. The Academic Integrity at Roanoke College brochure should be consulted for complete details concerning the College's academic integrity system.

It is the responsibility of each student to become familiar with the regulations and procedures of the system immediately upon enrollment. To assist students in meeting this responsibility, an orientation session is provided and the brochure, Academic Integrity at Roanoke College, is made available to all entering students. Questions concerning the Academic Integrity System should be addressed to the Associate Dean for Academic Affairs and Administration.

### **Class Attendance**

The College is committed to the principle that class attendance is a vital part of its academic program. Attendance makes possible that dialogue between student and teacher which is the foundation of the educational process. Thus, absence from class denies students access to the full measure of a college education.

Regular class attendance is expected in all courses. Individual instructors who have specific attendance requirements will state these on the syllabus distributed at the beginning of each course. Every student is accountable for all work missed because of class absence. Instructors, however, are under no obligation to make special arrangements for students who are absent. The Office of the Registrar will forward any information or request made by students to the instructors. This, however, does not constitute an excuse for absence from any class meeting. A listing of mandatory events outside of stated class hours must be made available to the students before the end of the designated course Add period. If out-of-class events are

added after the course Add period, alternate events or assignments must be provided for students with conflicts.

Unless prior consent for absence from the first meeting of a class is granted by the course instructor, the instructor may request that the Office of the Registrar drop an absent student from the class roster. However, it is the responsibility of the student, not the instructor or the advisor, to make sure he/she is enrolled in the correct schedule each term.

### **Course Changes**

Any change in a student's course of study requires consultation with the student's advisor. Course changes must be submitted online or to the Office of the Registrar before the deadlines stated in the Academic Calendar.

### **Examination Rescheduling**

Students are expected to take their final examination on the day and hour as specified in the Academic Calendar. Due to evening courses, however, some students have found that their final examination schedule consists of three consecutive exams. This could be morning, afternoon, and evening exams on the same day or an afternoon and evening exam on one day and a morning exam the next day. A student with such a schedule may request permission from one of the professors to reschedule the exam at the convenience of the professor. If all three professors will not reschedule, the student is urged to seek the assistance of his or her advisor or the Office of the Registrar.

### **Re-Examination**

A re-examination may be given only under circumstances that constitute an emergency. Approval of the instructor and the Associate Dean for Academic Affairs and Administration is required. In addition, a different examination must be given.

### **Academic Credit and Classification of Students**

NOTE: The information that follows applies to first time students entering fall, 2009, under the new Intellectual Inquiry Curriculum. Students previously enrolled and transfer students entering prior to fall, 2011, should consult the 2007-2009 academic catalog for their core requirements.

### **Competency Standards**

By meeting competency standards as described below, students are excused from taking some courses to satisfy the General Education requirements. The awarding of competency does not carry academic credit. Rather, it gives students more program flexibility by increasing their number of elective courses and allowing them to move to higher levels of study at a faster pace if they wish. If a student elects to take a course for credit after being awarded competency for that course, the competency is removed (except in foreign language where students cannot elect to repeat coursework for which they have earned competency).

**Biology** Competency may be attained in Biology 101 by satisfying either of the following requirements: (1) a score of 3 on the Advanced Placement Test, or (2) a score of 630 on the SAT II Test in Biology and no secondary school grade lower than a "B" or its equivalent in a biology course.

**Chemistry** Competency may be attained in Chemistry 101 by satisfying either of the following requirements: (1) a score of 3 on the Advanced Placement Test in Chemistry, or (2) a score of 630 on the SAT II Test in Chemistry and no secondary school grade lower than a "B" or its equivalent in a chemistry course. Competency may be attained in Chemistry 111 by scoring in the 50th percentile or better on the ACS Exam in General Chemistry. For competency in advanced courses, a student must score in the 50th

percentile or better on the appropriate ACS Exam. Credit for Chemistry 111 will be granted to candidates with a score of 4 or 5 on the Advanced Placement Test in Chemistry.

**Foreign Language** Competency for the 101, 102 and 201 courses in a foreign language may be attained by students who earn: (1) a minimum score of 570 on the SAT II Subject Test in a foreign language or (2) a score of 3 on the Foreign Language Advanced Placement Test. (Academic credit at the 201 course level of a foreign language will be awarded for a score of four or five on the Advanced Placement Test.) Competency will be determined otherwise on an individual basis by scores on an examination administered by Roanoke College faculty and a personal interview. Students who successfully complete the 102- or 150-level foreign language course will be awarded competency at the 101-level. Students who successfully complete the 201-level foreign course will be awarded competency at the 101 and 102-level.

**History** Competency may be attained in United States History and/or Western Civilization by satisfying either of two requirements: (1) a score of 3 on the Advanced Placement Test, or (2) a score of 590 on the SAT II Test and no secondary school grade lower than a “B” or its equivalent in American or World Civilization courses.

**Mathematics** Competency may be attained in Mathematics 121 with a score of three on the Calculus AB Advanced Placement Test. Competency may be attained in Mathematics 121 and Mathematics 122 with a score of 3 on the Calculus BC Advanced Placement Test. Credit for Mathematics 121 will be granted to a candidate with a score of four or five on the Calculus AB Advanced Placement Test. Credit for Mathematics 121 and Mathematics 122 will be granted to a candidate with a score of 4 or 5 on the Calculus BC Advanced Placement Test.

Competency may be obtained in Mathematics 111 with a score of 80 percent on the competency test developed and administered by the Mathematics, Computer Science, and Physics department. The test will be administered during the orientation period preceding the beginning of classes for the Fall term. Requests to take the test must be made in writing to the chair of the MCSP department.

Competency for all other mathematics courses will be determined on an individual basis by considering secondary school grades, standardized test scores, and scores on examinations administered by Roanoke College.

**Music** Competency may be attained in Music 150 with a minimum of two years of high school theory, with a grade of “B” or better.

**Physics** Competency may be attained by satisfying either of these two requirements: (1) a score of 3 on the Advanced Placement Test, or (2) a score of 650 on the SAT II Test in Physics. Competency in advanced physics courses may be determined on an individual basis upon completion of an examination administered by the department.

**Physical Education** Competency will be granted in one team sport or one individual sport through a full season of varsity intercollegiate participation.

**Political Science** Competency may be attained in American National Government (Political Science 101) by satisfying either of these two requirements: (1) a score of 3 on the Advanced Placement Test, or (2) a grade of “A” in a secondary school advanced placement American Government and/or Comparative Government course. Credit for American National Government (Political Science 101) may be granted if the candidate scores 4 or better on the appropriate Advanced Placement Exam.

### **Advanced Placement and Credit**

Roanoke College grants advanced placement and unit credit on the basis of the Advanced Placement Tests of the College Entrance Examination Board, the College Level Examination Program (CLEP), and the International Baccalaureate Higher Level Examination for courses which normally would be introductory for new students at the College. Generally, on the Advanced Placement Test the candidate who scores 3 will be granted competency. Unit credit will be granted if a candidate scores a 4 or 5. For the International Baccalaureate Higher Level Examinations, the candidate who scores a 4 will be granted competency, and



unit credit will be granted if a candidate scores 5, 6, or 7. Students scoring the equivalent of a “C-” or higher on the College Level Examination Program test will receive unit credit. However, no student may accrue more than eight units of credit through Advanced Placement tests, College Level Examination Program tests, International Baccalaureate Higher Level Examinations, and/or Credit by Examination.

Military service school credit, as evaluated by the American Council on Education Guide to the evaluation of educational experiences in the armed services, may also be considered for credit, provided the coursework is appropriate to the academic curriculum of Roanoke College. Specific information can be obtained from the Associate Dean/Registrar.

### **Credit by Examination**

Currently enrolled and former students of the College may stand for examination in a course provided they fulfill conditions which allow such examinations. A student who has previously enrolled in, failed, audited, or unofficially attended a course may not stand for examination in it. An examination may not be given in a term when the course is offered. No more than one credit by examination may be taken during any term. Also, no student may accrue more than eight units of credit through Advanced Placement tests, International Baccalaureate Higher Level Examinations, Credit by Examination, or College Level Entrance Program tests. The approval of the instructor, the chairperson of the department offering the course, and the Associate Dean/Registrar must be obtained. A special fee is charged and must be paid prior to taking the examination. For credit to be obtained in a given term, the examination has to be administered no later than three weeks prior to the beginning of the regularly scheduled examination period of the Fall and Spring terms or one week prior to the regularly scheduled examination period of the Summer session.

### **Transfer Credit**

Credit for academic work completed elsewhere will be accepted by official transcripts from regionally accredited colleges and universities if the courses are appropriate to the academic curriculum of Roanoke College. At least 17 of the total units required to graduate from Roanoke College (excluding Health and Human Performance 160 and Health and Human Performance activities) must be earned at Roanoke College. At least one-half of the minimum number of units required for a major must be completed at Roanoke College. After a student has registered with Roanoke College, degree credit will be granted only for elective courses and, in exceptional cases, up to a total of two units in the student’s major or minor or concentration taken at another institution. Transfer credit will not be approved for courses taken to meet core requirements. Approval for courses taken in the major, minor, or concentration must be obtained in advance from the departmental chairperson and the Registrar. Approval will not be granted for courses previously failed at Roanoke College. Credit will be granted for work in which a grade of “C-” or higher has been earned; transfer grades will neither appear on the Roanoke College transcript nor be used in calculation of the cumulative or major grade point average. Exceptions to these policies may be made in extenuating circumstances as approved by the Panel on Admissions, Readmissions, and Appeals.

The College does not accept credit for nonacademic experiential learning or professional certificates. However, in cases where coursework is appropriate to the academic curriculum of the College, exceptions may be made for military service school credit, as evaluated by the American Council on Education’s *Guide to the Evaluation of Educational Experiences in the Armed Services*.

Through a longstanding agreement with Hollins University, Roanoke College will grant academic credit for courses appropriate to a Roanoke College program, including grades and quality points, to those regular students who, with the approval of the appropriate advisor or departmental chairperson and the Office of the Registrar, enroll in a course at Hollins, assuming that the course concerned is not currently available to the student through Roanoke College. The agreement applies only to fall and spring terms.

There are additional conditions and limitations on transfer credit for persons seeking a second degree. (See “The Second Bachelor’s Degree” section.)

Degree credit will not be granted to a student for courses taken at any institution when the student is in a status of suspension or expulsion from Roanoke College or from any other college or university.

## Units and Credit for Courses

Most regular courses carry one unit of credit, though some offer only one-half unit of credit. Research and honors projects may be taken for either one or one-half unit of credit. Applied music, music ensembles, physical education activities and theatre workshops carry one-quarter unit of credit. The College recommends that a unit be considered the equivalent of four semester hours for transfer purposes.

## Classification

The classification of students is determined according to the number of units earned. Classification as a freshman means a student has earned fewer than eight units.

Classification as a sophomore requires a minimum of 8 units earned; as a junior, a minimum of 16 units earned; and as a senior, a minimum of 25 units earned. The determination will be made at the end of each term.

## System of Grading

### Grades and Quality Points

Student work is graded according to the following scale:

Letter Grade	Quality Points Per Unit
A .....	4.0
A- .....	3.7
B+ .....	3.3
B .....	3.0
B- .....	2.7
C+ .....	2.3
C .....	2.0
C- .....	1.7
D+ .....	1.3
D .....	1.0
D- .....	0.7
F .....	0

Letter Grade	Quality Points Per Unit
<b>P</b> (Work passed under pass/fail)	Not Assigned
<b>W</b> (Withdrawal from a course prior to the beginning of the ninth week of the term. The grade designation "W" will not be counted as a unit attempted and will therefore not affect the student's cumulative grade point average.)	Not Assigned
<b>WP</b> (Withdrawn from course passing beginning the ninth week of the term through the thirteenth week of the term.)	Not Assigned
<b>WF</b> (Withdrawn from course failing beginning the ninth week of the term)	0

through the thirteenth week of the term.)

<b>DP</b>	(Involuntarily withdrawn from course Passing by Conduct Board or faculty)	Not Assigned
<b>DF</b>	(Involuntarily withdrawn from course Failing by Conduct Board or faculty)	0
<b>XF</b>	(Dismissed from course for violation of academic integrity)	0

In addition to the above grades, the following notations are used in reporting temporary term grades, but these notations do not become a part of the student's permanent record:

**"IN"** represents incomplete and indicates that the student has not completed, for valid reason approved by the instructor, the work of the course. The incomplete work must be submitted to the instructor not later than two weeks after the beginning of the next term, including the Summer session, at which time the instructor will assign the final course grade. Grades of "IN" are not included in determining a student's grade point average. When the "IN" is converted to a permanent grade, the student's GPA will be recalculated.

**"SP"** is recorded by authorization of the Office of the Registrar for the student who is under the care of a physician at the time of the final examination or who has not completed the work of the course by reason of extended illness. Written verification by the physician is necessary to receive an "SP." The work of the course must be completed before the end of the next term. At the beginning of each term in which a student does not enroll, the grade of "SP" must be renewed by submission of a physician's statement and be approved by the Office of the Registrar.

Students who have received either an "IN" or an "SP" and who fail to complete their work will be immediately subject to the rules of academic discipline (warning, suspension, expulsion) which would have applied when the original course should have been completed.

A student who is absent from a final examination without valid reason will receive a "zero" on the examination. If there is a valid reason for the absence, the grade of "SP" or "IN" may be given.

**"NG"** represents no grade and indicates that the instructor does not submit, at the time grades are due, a final grade. A grade of "NG" is recorded in consultation with the Office of the Registrar. An "NG" must be converted to a final grade by the end of the next term, including the Summer session.

The "WP", "DP", "WF", and "DF" reflect the grade in the course as of the date of official withdrawal. The grade designation "WP" or "DP" will not be counted as a unit attempted and will therefore not affect the student's cumulative grade point average. A "WP" is recorded only if a student officially withdraws from the College through the Office of the Registrar. In each case that the grade designation "WF" or "DF" is assigned, the course will be considered as a unit, or partial unit, attempted and will be considered an "F" in the computation of the cumulative grade point average.

### **Grade Point Average**

The cumulative grade point average is determined by dividing the sum of the student's quality points by the sum of the units attempted, excluding grades that do not carry a unit attempted.

### **Pass/Fail Elective Option**

The primary purpose of the pass/fail elective option is to encourage students to explore an unfamiliar academic area without fear of lowering their cumulative grade point average.

In addition to internships, theatre workshops, and other courses that must be taken on a pass/fail basis, students may complete one elective course on a pass/fail basis. The pass/fail elective course, taken on a pass/fail basis, cannot be in the same academic discipline as the major, minor or concentration nor can it be a required course for the major, minor or concentration which is outside the discipline. In addition, the

course may not be one of a group from which courses may be taken to satisfy major, minor or concentration requirements. No course satisfying a core requirement can be taken on a pass/fail basis.

One course completed on this basis may be offered as a part of the 33 units (excluding the two one quarter unit physical education activities) required for the degree, but if passed will not be used to determine the cumulative grade point average. Courses failed will be charged as courses attempted in determination of the cumulative grade point average. At least 30 of the 33 academic units used to meet degree requirements must be taken for a letter grade. Courses failed will be charged as courses attempted in determination of the cumulative grade point average.

If a major, minor, or concentration is declared at some future time in an academic discipline for which the pass/fail course is part, the "pass" grade will be converted back to the original grade submitted.

Students seeking a second degree may not exercise the pass/fail elective option for elective courses but may enroll in courses which are automatically graded on a pass/fail basis.

Special (non-degree-seeking) students may exercise the pass/fail elective option, but are advised not to do so in any course which they may want to apply toward core requirements, major, minor, or concentration credit should they become degree-seeking students.

Requests for pass/fail may only be submitted to the Office of the Registrar prior to, and during, the add period for the particular course. If a student has performed well in a pass/fail elective course being taken on a pass/fail basis, the student may submit a written request to the Office of the Registrar absolutely no later than the last day of classes for that semester to remove the pass/fail elective designation, thus reverting to having a letter grade recorded for the class. The student will then be eligible to enroll in another course using the pass/fail elective option, but a student may enroll in only one course under the pass/fail elective option in any given semester.

### **Repeating Courses**

Students may repeat any course except for prerequisites for courses that have already been taken or are currently being taken. Such prerequisite courses may be repeated only with the approval of the department. All grades for courses will be reported on transcripts, but only the most recent grade for any given course will be used to compute the student's grade point average, with the exception of grades of "XF" which will be used in computing the grade point average. A grade of "W", resulting from a student's withdrawal from a repeated course, will not remove a previous grade for that course, nor will courses retaken on an audit (AU) basis.

Units for a repeated course that has previously been passed will be counted only once toward graduation. A student's academic standing, grade point average, and class ranking in any given semester will not be recalculated retroactively when a course is repeated in a later semester. Upon graduation, courses cannot be taken on a repeat basis. Transcripts will assign units attempted for each time a course is taken, but will mark repeated courses "R" to indicate that they are not to be assigned quality points or used in computing grade point average.

### **Dismissal from a Course**

Students who are either suspended or expelled from a course or from the College will be assigned a final grade of either "DP" or "DF" by the course instructors as of the date of dismissal if the final examination has not been completed. The only exception would be in the course in which a student has been found responsible for an academic integrity violation and received a penalty grade of "XF."

### **Withdrawal from Courses**

In a regular term, if a student drops a course or withdraws from the College prior to the beginning of the third week of the term, the course is dropped from the student's academic record. If a student withdraws from a course or from the College after the beginning of the third week but prior to the beginning of the ninth week of the term, the grade designation of "W" will be assigned. For courses that meet only a portion of the term, withdrawal rules will apply on a pro-rated basis using calendar days, counting from the first scheduled class meeting.

A student may withdraw from courses after the beginning of the ninth week of class and until two weeks before the beginning of the examination period only as a result of withdrawing from the College. A grade of “WP” or “WF” is assigned for each course.

If a student withdraws from a course or from the College after the second day and prior to the ninth class day of a May term, the grade designation “W” will be assigned by the instructor. The designation “W” will not be counted as a unit attempted and will, therefore, not affect the student’s cumulative grade point average. Withdrawal from a course or from the College within seven class days of the final examination will not be authorized except for medical reasons or other extenuating circumstances as authorized by the Registrar. If a student withdraws from a course or from the College after the second day and prior to the third week of a Summer session, the grade designation “W” will be assigned by each course instructor. The designation “W” will not be counted as a unit attempted and will, therefore, not affect the student’s cumulative grade point average. Withdrawal from a course or from the College within two weeks of the applicable final examination will not be authorized except for medical reasons or other extenuating circumstances as authorized by the Registrar.

A student may withdraw from the College for medical reasons until the beginning of the examination period. All courses are removed from the academic record in cases of medical withdrawal.

(Please see “Dismissal from a Course” for information regarding involuntary withdrawals.)

Any drop or withdrawal from a course or the College must be authorized by the Office of the Registrar and must be made in writing. Withdrawal forms are available in the Office of the Registrar. Students considering withdrawal from the College are expected to meet with the Associate Dean for Student Success Initiatives.

### **Grade Reports**

A report on unsatisfactory progress in courses (“D” or “F” grades only) is made approximately midway through the Fall and Spring terms for all students other than freshmen. Midterm reports for freshmen are published using letter grades (“A,” “B,” “C,” “D,” “F”) for all courses. All midterm reports are considered advisory to the student and are not made part of the permanent record. Upon completion of Fall, Spring, May, and Summer terms, student grade reports are available through the WebAdvisor option on the Roanoke College Homepage.

### **Class Rank**

A ranking of students by class is compiled at the end of the Fall and Spring terms. It is based upon the cumulative grade point average of each student. Grades earned in non-credit courses and pass/fail courses are not considered in determining class rank (unless the pass/fail course is failed).

## **Academic Standards**

### **Academic Standing and Scholarship Requirements**

The Associate Dean/Registrar examines and evaluates the total record of all students in May and December to determine whether students shall be commended, placed on academic warning, or suspended from the College. All cumulative grade point averages are computed on the basis of all courses taken except those passed under the pass/fail option. A course failed will be charged as a course attempted. All minimum requirements that follow are stated in terms of academic credit and do not take into account courses carrying non-academic credit. Although there are advisors to assist, ultimately, it is the responsibility of the student that he/she is correctly registered, completes the necessary course work for graduation and abides by the academic regulations of the College, as set forth by the faculty.

### **Academic Warning**

Students will be placed on academic warning if their cumulative grade point average at the end of a term is less than 1.70 for freshmen, 1.85 for sophomores, or 2.0 for juniors and seniors. Academic warning indicates that the student is not performing academically at a level sufficient for graduation. Freshmen and sophomores especially should recognize that the GPA sufficient to prevent their being placed on academic warning is lower than that required for graduation.

Students who leave the College while in a status of academic warning, although not suspended, return with the same status.

### **Academic Suspension**

Students placed on warning will be notified immediately after the Fall or Spring term. Students placed on academic warning will have two regular terms (fall or spring) in which to raise their cumulative grade point average to the required minimum for their classification provided that they earn at least a 2.0 term GPA in each subsequent term of warning. Students who do not meet the GPA requirement will be suspended for one regular term and must apply for readmission to return for a subsequent term.

Students who have served a one-term suspension and are subsequently suspended a second time will be suspended for two additional regular terms and must apply for readmission.

Students who have served two academic suspensions and subsequently fail to maintain the required GPA will be expelled from the College.

Any full-time student whose overall cumulative grade point average is less than 1.0 at the end of his/her first regular term will be suspended for a period of one regular term.

Any full-time student who fails all one unit courses in which he/she is enrolled during any regular term will be suspended immediately for a period of 12 months.

Students who have been suspended and wish to return to Roanoke must follow the readmission process described in "Readmission Process for Suspended Students." Note that no course credits will be transferred to Roanoke College if earned while the student is in a status of suspension.

Students who are academically suspended from the College, serve their period of suspension, apply for readmission, and are granted readmission, will be subject to the rules of academic warning and suspensions, as stated in this catalog.

Students who appeal their suspension, have their appeal granted, and do not serve a period of suspension, are placed on academic warning and have until the end of their next term of enrollment to raise their grade point average to the minimum level required.

### **Appeals Process**

An appeals process is provided for students notified of suspension, applying for readmission, or requesting a waiver of an academic rule, regulation, or requirement.

The Panel on Admissions, Readmissions, and Appeals is likely to consider favorably only those appeals based on truly extenuating circumstances or that offer compelling reasons for granting the student's request. At all times the Panel attempts to balance concerns for the individual against concerns for equity.

Appeals regarding Intellectual Inquiry or Honors Program requirements must have the approval of both the director of the program and the Panel on Admissions, Readmissions, and Appeals.

Appeals are addressed to the Panel on Admissions, Readmissions, and Appeals, c/o the Office of the Registrar. Individuals are notified of the Panel's decision once it has been made. New appeals submitted subsequent to a decision having been rendered will be heard only based on the discovery of new information which could not reasonably have been presented to the Panel at the time of the original meeting. The decision as to whether a new appeal meets this criterion will be made by the Associate Dean/Registrar, based on the condition noted above. If the Associate Dean/Registrar finds that new information has been discovered, the re-appeal is referred to the Vice-President/Dean of the College for a decision.

### **Readmission Process for Suspended Students**

Students placed on academic, academic integrity, or disciplinary suspensions are not automatically eligible to return after their period of suspension. Students wishing to return following a suspension must reapply at least one month prior to the beginning of the term in which re-instatement is desired. The Panel on Admissions, Readmissions, and Appeals will evaluate requests for readmissions on the basis of the following criteria:

1. The student's written statement in which (a) compelling reasons are offered for wishing to return to Roanoke College; (b) the student's activities or accomplishments during the period of suspension are described; (c) he/she indicates why his/her academic performance will be better than before the suspension;
2. Evidence of the student's ability to perform work necessary, within one academic year, to raise his/her GPA to the minimal level required for persistence at and graduation from Roanoke College (letters of recommendation from faculty members who can attest to the student's likelihood of success at Roanoke College will be considered by the Panel in conjunction with the student's statement);
3. Evidence of the student's likelihood of making the social adjustment necessary for persistence at and graduation from Roanoke College.

The Panel expects suspended students to pursue academic course work during their suspension. While this work will not be transferable, it will be personally beneficial and will provide the College with valuable information in the event that the student applies for readmission.

The Panel will evaluate requests for readmission by students in terms of criteria listed above and determine on a case-by case basis whether or not to grant readmission. Please note that only written materials are reviewed by the Panel and that individual appearances before the Panel are not permitted.

New appeals submitted subsequent to a decision having been rendered will be heard only based on the discovery of new information which could not reasonably have been presented to the Panel at the time of the original meeting.

## **PROGRAMS OF STUDY**

### **Majors, Minors, and Concentrations**

Roanoke College offers 34 majors under programs of study leading to the bachelor's degree.

#### **Bachelor of Arts (B.A.)**

Art, Art History, Biology, Chemistry, Christian Studies, Criminal Justice, Economics, English, Environmental Policy, French, History, International Relations, Music, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, Spanish, and Theatre.

#### **Bachelor of Science (B.S.)**

Athletic Training, Biology, Biochemistry, Chemistry, Computer Science, Environmental Science, Health and Exercise Science, Health and Physical Education, Mathematics, Physics, Psychology, and Sport Management.

#### **Bachelor of Business Administration (B.B.A.)**

All majors at the College fall into one of two categories as described below. Since the determination of cumulative grade point averages in the major is based on these definitions, students should clearly understand the components of their major fields.

Disciplinary Majors include all courses taken in a chosen discipline (except those specifically excluded by the department from the major) and all courses taken from other disciplines to meet requirements.

Interdisciplinary Majors include all courses taken within the prescribed pattern of courses which are designated as applicable to the major.

#### **Application for Major**

A student must submit an application for major prior to classification as a junior (16 units of credit). The application must be submitted to the chairperson of the department or program coordinator in which the student plans to major. If approved, the application and the recommendation of the department are forwarded by the chairperson to the Office of the Registrar. A department may refuse a student admission to, or continuance in, a major program.

Students who have not declared a major and have earned junior classification will be withheld from pre-registration and registration. Students who make application to a major but are not accepted will have to request permission of the Registrar to pre-register or register. Declarations of major must be approved and on file in the Registrar's Office for all students prior to graduation.

Students are advised that if they fail to take certain course before their junior year they may not be able to complete major requirements within the traditional four-year period.

Those interested in physics, art, chemistry, mathematics, computer science, and statistics, however, should consult with the chairperson of those particular departments before the beginning of the sophomore year. Those interested in elementary education should consult with the chair of the Education Department as early as possible in the freshman year.

In general, students are to be governed by the Catalog which is current at the time they begin their studies at Roanoke College. However, a student has the option of declaring to be under jurisdiction of a subsequent Catalog except in cases where core requirements have been changed and the College has stipulated those eligible to declare the new curriculum. Should the faculty determine that a modification in course work for a major or teacher licensure program in Education is necessary in order for students to complete a current course of study, the department reserves the right to modify degree or licensure requirements for students who have not yet formally declared a major or applied for teacher licensure.

Students transferring from a Virginia community college may elect to declare any Catalog in effect within the 24 month period immediately preceding the term they first enroll except in cases where core requirements have been changed and the College has stipulated who is eligible to declare the new curriculum.

If a student decides to drop a major after he/she has formally declared the major, the student should inform the Office of the Registrar, in writing, to remove the major from the student's record.

### **Minors Program**

Although all students are required to complete the requirements of a major, such is not the case for the Minors Program. The program is optional for students and for academic departments. The purpose of the program is, in part, to provide students with a broader based liberal arts background by studying a second field in some depth. Roanoke College offers 30 minors. They are:

American Literature  
American Politics  
Art  
Art History  
Biology  
British Literature  
Chemistry  
Christian Studies  
Computer Science  
Dramaturgy  
Economics  
Elementary Education: Teaching in the Diverse Classroom  
Environmental Policy  
Environmental Science  
Foreign Politics  
French  
German  
History – European  
History – U.S.  
Mathematics



Music  
Philosophy  
Physics  
Psychology  
Religion  
Secondary Education: Teaching in the Diverse Classroom  
Sociology  
Spanish  
Theatre Performance  
Theatrical Design

Each minor represents an organized program of study consisting of at least six units from among those which may be offered for a major. The specific requirements are selected by each department which participates in the Minors Program.

No more than two units may be used to satisfy both the requirements of a minor and the requirements of a major. At least one-half of the minimum number of units required for a minor must be completed at Roanoke. A cumulative grade point average of at least a 2.0 is required in the minor courses taken at Roanoke, except for minors in Education where a 2.5 is required. Courses used to satisfy a minor requirement may not be taken under the pass/fail option. Specific requirements for each minor are described under the appropriate academic discipline. Upon completion of all requirements for the minor, the Office of the Registrar will certify the minor field on the official transcript.

To declare a minor, a student must major in a different discipline or multi-disciplinary program. A student's intention to pursue a minor may be declared at any time, provided that there is enough time to complete all courses. The student must submit an application to the chair of the department in which the student wishes to obtain a minor. A departmental representative confers with the student and forwards the application to the chair. After approval, the chairperson forwards the application to the Office of the Registrar. With the concurrence of the Associate Dean for Academic Affairs, a department may refuse a student admission to, or continuance in, a minor program.

### **Concentrations**

In addition to the major and minors programs, the College offers students further opportunities to acquire specialized skills and knowledge useful in career development. Such a program of study is known as a concentration. Roanoke offers the following 24 concentrations. They are:

Accounting  
Africa and the African Diaspora  
Anthropology  
Business Information Systems  
Business Leadership  
Classics & the Ancient Mediterranean World  
Communications  
Creative Writing  
East Asian Studies  
Finance  
Gender and Women's Studies  
Global Business  
Health Care Administration  
Health Care Delivery  
Human Development  
Human Resource Management  
Information Analysis

Latin American & Caribbean Studies  
Legal Studies  
Marketing  
Parish Youth Leadership  
Peace & Justice Studies  
Statistics  
Teaching of English to Speakers of Other Languages (TESL)

Each concentration consists of a prescribed pattern of course work approved by the faculty and totaling at least five units. A concentration may be taken only in conjunction with or in addition to a major. Courses used in a concentration may not be taken under the pass/fail option. At least one-half of the minimum number of units required for concentration must be completed at Roanoke College. The prescribed courses in a concentration must include at least three units which are not used to satisfy the student's major requirements. Successful completion of this program with a cumulative grade point average of at least 2.0 will be recognized, upon certification of the Office of the Registrar, by entry on the student's permanent academic record at the time of graduation from Roanoke College.

To declare a concentration, a student must major in a different discipline or multi-disciplinary program. A student's intention to pursue a concentration may be declared at any time, provided that there is enough time to complete all courses. The student must submit an application to the chair of the department which coordinates the concentration. A departmental representative confers with the student and forwards the application to the chair. After approval, the chairperson forwards the application to the Office of the Registrar. With the concurrence of the Associate Dean for Academic Affairs and Administration, a department may refuse a student admission to, or continuance in, a concentration.

## **Requirements for Baccalaureate Degree Programs**

### **Graduation Requirements**

NOTE: The information that follows applies to students entering fall, 2009 as first time students, under the new Intellectual Inquiry Curriculum. Students previously enrolled and transfer students entering prior to fall, 2011 should consult the 2007-2009 academic catalog for their requirements.

To earn a bachelor's degree the student must pass no fewer than 33 academic units (including at least one intensive learning experience) and two one-quarter unit Health and Human Performance activities (or the equivalent) for a total of 33½ units or the equivalent. At least 30 of the 33 academic units used to meet degree requirements must be taken for a letter grade. In addition, the student must meet a standard of computer literacy set by his or her major program.

A minimum of 17 of the academic units (excluding physical education) must be earned at Roanoke College toward the degree. If a student is granted competency for one physical education activity, the one-half unit of physical education required for graduation is reduced to one-quarter unit. The student must have a cumulative grade point average of at least 2.0 in all courses (excluding courses offered and passed on a "pass/fail" basis.) In addition, the student must meet the requirements for the Intellectual Inquiry Curriculum or the Honors Program Curriculum and for a major. The student must earn a cumulative grade point average of at least a 2.0 in all Intellectual Inquiry Courses (INQ) attempted as well as a cumulative grade point average of 2.0 in all courses attempted in the major. Grade point requirements for the Honors Program are described under "Honors Program" elsewhere in this Catalog. In any major, prerequisite courses which are not themselves required for the major are not included in the major cumulative grade point average.

Since core requirements and major requirements may be completed without reaching the total of 33 ½ course units, students must elect courses to fulfill the remaining work. These elective studies may be used to satisfy areas of personal interest or professional need. Some students choose to use these subjects to qualify for a second major, a minor, or an area of concentration.

### **Participation in May Commencement Exercises**

The following groups of students will be invited to participate in commencement exercises held at the close of the spring term:

- a. Have completed degree requirements prior to commencement.
- b. Will, at the end of the spring term, have earned at least a 2.0 overall grade point average and at least a 2.0 major grade point average but who are lacking no more than two units of academic credit. (The students must pre-register for the outstanding course work and have made any appropriate deposits so that completion of degree requirements will occur no later than the end of the summer term for the year in question).
- c. Are participating in the 3-2 Engineering or programs and who have completed all residency requirements at Roanoke College and will complete all degree requirements by the end of the summer term for the year in question.

Beside the names of students in groups b and c, a notation of "Anticipated August Graduate" will be included in the commencement program. An empty diploma tube will be presented to these students at Commencement. Following the completion of all degree requirements, a diploma will be ordered.

### **Declaration of Degree Candidacy**

By no later than the middle of the term preceding that term in which graduation is expected, students anticipating graduation must submit to the Office of the Registrar an application for degree candidacy and meet with the Registrar to complete the graduation review.

### **Residency Requirement**

Up to two of the last eight units of degree credit may be taken at another approved institution, but no more than one of the final four units may be taken at another institution. All courses taken at another institution must be approved in advance by the Registrar. Approval will not be granted for courses previously failed at Roanoke College. Credit will be granted for work in which a grade of "C-" or higher has been earned. Transfer grades will neither appear on the Roanoke College transcript nor be used in calculation of the cumulative or major grade point average. Students majoring in are naturally in residence at their approved hospital and are excused from this rule. Also, students participating in study abroad receive a waiver. Special permission for others to waive this rule may be granted upon successful appeal to the Panel on Admissions, Readmissions, and Appeals.

### **Limitation Regulations**

Rapid changes in the content and methodologies of academic disciplines make it necessary to require that one's program of study not be outdated by long delays in qualifying for the degree. Consequently, the College imposes certain conditions on those who fail to complete their programs within a stipulated time.

Students seeking their first bachelor's degree are subject to the degree requirements and the academic regulations governing classification and scholarship as described in the Catalog current at the time of their first enrollment at Roanoke, provided that they qualify for a degree within 10 calendar years of the date of first enrollment. For transfer students, the period will be dated from the earliest enrollment at an accredited institution from which transfer credit is recorded.

Students who do not qualify for the degree within the 10 year period must meet the degree requirements and be subject to academic regulations governing classification and scholarship which apply for the next year in which the student re-enrolls. Applicable requirements and regulations shall be based thereafter on those prevailing at five-year intervals.

At any time after the conclusion of the tenth year following initial enrollment, the faculty of the department of major study may review the currency of the student's program and may, with the concurrence of the Registrar, require the student to repeat certain courses or otherwise make up deficiencies.

### **After Graduation**

Upon completion of the College career, one becomes a member of the Roanoke College Alumni Association, a non dues-paying organization of Roanoke College alumni now numbering over 21,000. The Alumni Association is governed by an Executive Council which represents the geographic areas and

interests of alumni (including Honor Guard, Hall of Fame, Roanoke Fund, and area chapters). The Alumni Executive Council President serves as an ex-officio member of the Board of Trustees and works with the Parents Council to coordinate activities and programs to promote the College.

All alumni are given the opportunity to receive the Roanoke College Magazine, may attend the Spring Alumni Festival held on campus annually, and are invited to participate in area chapter events and activities. Alumni chapters focus on involvement of area alumni, parents, and friends in the promotion of the College through social events, admissions efforts, career networking, and development and are active in Atlanta, Baltimore, Washington, D.C., Hampton Roads, New England, New York, Philadelphia, Richmond, and the Roanoke Valley. Other events throughout the year are also held in California, Chicago, and Florida.

### **Double Majors, Second Majors and Second Bachelor's Degrees**

The College recognizes that some individuals have a need for a broader based education than that which can be obtained through the traditional single-major, single-degree program. This circumstance is particularly true for those who wish to have highly flexible career opportunities at the time of graduation and for graduates who may wish to pursue new career directions which require additional education.

To accommodate these needs, the College offers two opportunities: (1) a single degree with two majors, which is open only to those who are pursuing or who have earned a degree from Roanoke College, and (2) a second bachelor's degree, which is available to graduates of Roanoke or any other regionally accredited college or university.

#### **Second Major**

While working toward a degree within one major program, students may also complete the program of a second major and have the achievement recorded on their permanent record and official transcripts, provided that the following conditions are met:

1. All requirements for each major must be completed and a maximum of five units may be applicable to both majors, provided that the total number of courses in both majors is no fewer than 17 (except as described below).
2. If the majors are in different degree areas (BA, BS, B.B.A.), the student must, at the time of declaring degree candidacy, select the degree to be awarded. (Two degrees will not be awarded.)
3. If one major is interdisciplinary, the number of units applicable to each major must be approved by the appropriate chairperson or coordinator.

A graduate of the College may subsequently earn a second major under the conditions described above. The requirements of the major shall be those set forth in the catalog for the session in which re-enrollment occurs. Transfer credit earned elsewhere after graduation may not be used to satisfy these requirements.

#### **Second Bachelor's Degree**

Holders of a bachelor's degree from a regionally accredited college or university may earn a second bachelor's degree by fulfilling the conditions outlined below.

Roanoke College graduates must meet the major requirements in effect at the time of re-enrollment. Those graduates who completed General Education or Centers of Distinction requirements as part of their first degree will not be required to complete the Intellectual Inquiry requirements. A minimum of eight units must be earned at Roanoke beyond those earned for the first degree. Units in excess of 33 1/2 earned while working toward the first degree will not be counted as fulfilling the eight needed for the second degree. Courses offered for the first degree may be used to satisfy core and major requirements, provided that they were taken at the College or taken elsewhere prior to first enrollment at the College. Credit earned elsewhere after graduation will not be accepted for transfer credit toward the second degree. If a second major has been earned as part of the first degree program, a second degree will not be awarded for a major in that field.

Graduates of other accredited institutions will be admitted as transfer students and must fulfill the core and major requirements for the degree program as set forth in the Catalog for the session in which enrollment first occurs. Transferable credit and credit earned at Roanoke must total at least 33 1/2 (or the equivalent). A minimum of 17 of these units (excluding physical education) must be earned at Roanoke after completion of the original degree. Transferable courses taken in the first degree program may be used to meet core requirements. No more than one-half of the minimum units required for the major may be satisfied by transfer credit.

If, in the judgment of the faculty in the major area, the earlier work of a student does not adequately cover more recent advances or needs in the field, the student may be required to repeat certain courses or otherwise make up the deficiency.

Such requirements should be established at an early date and must have the approval of the chairperson in the major field and the Office of the Registrar.

Academic requirements: All holders of a bachelor's degree will be subject to the academic requirements and regulations for seniors. Such students will not, however, be eligible for any scholastic awards or recognition except the Dean's List, President's List and honor societies. To qualify for a degree, a student must have a cumulative grade point average of at least 2.0 for all course work attempted at Roanoke College to meet the requirements of the second degree. A cumulative grade point average of at least 2.0 must also be attained in all major courses taken at Roanoke.

Second-degree candidates may not enroll in an elective course on a pass/fail basis but may enroll in internships, which are automatically graded on that basis.

### **Baccalaureate Degree Requirements When Transferring Early Into a Graduate Program**

Roanoke College plays a major role in the undergraduate education of some students who choose to leave before graduating in order to enter a post-graduate program. Roanoke is proud of these students and will award the appropriate baccalaureate degree (B.A., B.S., or B.B.A.) to students who have satisfied or will satisfy the following guidelines:

1. The student must have been awarded an advanced degree by the transfer institution. Examples would include Ph.D., M.S., and J.D.
2. The student must not have been awarded a baccalaureate degree.
3. The student must have completed at least 17 academic units at Roanoke College, (excluding physical education) with at least a 2.0 overall grade point average and a 2.0 GPA in the major.
4. The student must have satisfied the core requirements of Roanoke College in place at the time of transferring. All substitutions or exemptions must be approved by the Academic Standards Committee.
5. The student must have completed the requirements for the major. Not more than four graduate course units may apply toward the major.
6. The student may apply not more than eight units of the graduate program toward the 33 1/2 units required by Roanoke College.
7. The department chair of the student's major and the Registrar will determine which graduate courses will be included in the student's record. In case of disagreements the Academic Standards Committee will make the final determination.
8. Upon approval by the faculty, the student will be awarded the appropriate baccalaureate degree at the next commencement.

### **Records, Transcripts and Diplomas**

#### **Privacy of Student Records**

In accordance with the provisions of the Family Educational Rights and Privacy Act of 1974, the Associate Dean/Registrar has been designated the official to receive requests for, dispense information about, and maintain records on, all students. Such records consist of admissions data and the educational record of the students while enrolled at the College. Students may inspect these records upon written request and have access to the material in accordance with the law. Such records are not only accessible to certain responsible College and administrative personnel but may be reviewed and utilized by them if necessary. Records are not released to a third party without the specific written authorization of the student.

### **Transcripts**

Any student, former student, or graduate of the College may (upon written request or by using electronic access through [iwantmytranscript.com](http://iwantmytranscript.com)) have the Office of the Registrar provide a complete transcript of credits, provided all College bills have been paid. A payment of \$5 is required for each requested transcript. Official transcripts carrying the seal of the College are sent to third parties, as directed by the student, or in a sealed envelope to the student. Unofficial transcripts may be openly issued to the student. Official transcripts may also be sent electronically. In most cases, transcripts will be issued within one week of receipt of the request.

### **Diploma Replacement Fee**

Lost or damaged diplomas can be replaced by applying to the Assistant Registrar. The replacement fee is \$30.00.

## **ACADEMIC PROGRAMS AND OPPORTUNITIES**

### **The Intellectual Inquiry Curriculum**

The Intellectual Inquiry Curriculum flows from the Roanoke College Goals for Liberal Learning, "Freedom With Purpose". It is built around critical inquiry into questions that are important to us as individuals, citizens, and members of a global community. By engaging students in rigorous inquiry and developing abilities in communication and critical thinking across the curriculum, it furthers the college's mission of developing the skills students need to live as informed, resourceful, and responsible citizens. Combined with students' majors, it gives students the resources for building an integrated body of knowledge concerning themselves and their world.

Of the 33 ½ units required for a degree at Roanoke College, between 11 ½ and 14 ½ units are needed to fulfill the Intellectual Inquiry Curriculum requirement.

### **First Year Seminars**

The Intellectual Inquiry core courses (INQ courses) begin with two first-year seminars that introduce students to the fundamentals of liberal arts education. The first of these courses, entitled "Intellectual Inquiry," introduces students to critical thinking in higher education, taking as its starting point a focused topic in a scholarly field. Critical inquiry will be taught in the context of careful reading of important intellectual works, as well as inquiry-based writing assignments. The second course ("Living an Examined Life") is a disciplined reflection on basic questions of ethics and values, within the tradition of a particular scholarly field. Students will learn reasoning skills through reading, writing, and oral communication as they link key works with broader traditions of critical reflections on the good life for individuals and communities. Students will be encouraged to explore ways in which they can use these broader traditions for their own reflections on what it means to live well. These first year seminars are required of all students completing the INQ curriculum.

### **Intensive Learning**

The objectives of the Intensive Learning Program are to foster intense and purposeful faculty-student interchange and to encourage thoughtful, creative exploration of a focused topic during a time when students are enrolled in one and only one course. The College provides a wide array of Intensive Learning opportunities, including travel courses as well as on-campus courses. All intensive learning courses emphasize active student participation, for example, in field study, simulations, and laboratory work. The

majority of these courses are offered in May, during a three-week term. All students are required to complete at least one unit of Intensive Learning to graduate from Roanoke College.

### **The Intellectual Inquiry Perspectives Courses**

Students also take a series of courses that calls upon them to inquire into questions about Western civilization, global perspectives, and the natural world using the knowledge and methods of different ways of knowing: the Humanities and Fine Arts, the Social Sciences, and Mathematics and the Natural Sciences. Each course explores a question from one of the following three content perspectives.

#### **1. Western Perspectives**

Courses that address questions from this perspective explore the natural and cultural aspects of the Western world, now and in the past. For example, questions may include the following: How have our ways of life been shaped by events, cultures, and institutions from other times and places, including the civilizations of Europe and the ancient Mediterranean and Middle Eastern worlds? What characterizes “the American experiment”?

#### **2. Global Perspectives**

Courses that address questions from this perspective seek to make connections in the global context in which we live. For example, questions may include: What can we learn about and from the natural and cultural forces that shape societies beyond our familiar world? What do we need to know about the interaction of societies in the world community? What do we need to know about the role and impact of the United States internationally, as seen from other perspectives?

#### **3. The Natural World**

Courses that address questions from this perspective examine the world of nature and our place in it. For example, questions may include: What laws govern natural phenomena, and how do we discover them? How do human beings fit into the world of nature? How does the natural world enrich human life, and what impact does human activity have on nature?

There are 7 different Intellectual Inquiry (INQ) Perspectives courses.

#### ***Natural Sciences and Mathematics Division***

INQ 240 Statistical Reasoning

INQ 241 Mathematical Reasoning

(Mathematics/Statistics/Computer Science)

INQ 250 Scientific Reasoning I

(Natural Science with Lab)

INQ 251 Scientific Reasoning II

(Natural Science with no Lab)

#### ***Social Sciences Division***

INQ 260 Social Scientific Reasoning

#### ***Humanities and Fine Arts Division***

INQ 270 Human Heritage I

INQ 271 Human Heritage II

Students must take seven of these courses: three in the Natural Sciences and Mathematics (240, 250, and either 241 or 251), two in the Social Sciences (260) from different disciplines, and two in the Humanities and Fine Arts (270 & 271).

Up to three substitutions are allowed as described below. However, students applying substitutions still must take at least one INQ course in the Natural Sciences and Mathematics, one in the Social Sciences, and one in the Humanities and Fine Arts. At the same time, all students must complete at least one INQ course from each of the three perspectives: Western, Global, and Natural World. Substitutions cannot be used to meet a “Perspective” requirement.

- A one-unit course in Mathematics or Statistics may substitute for INQ 240. A one-unit course in Mathematics, Statistics, or Computer Science substitution may substitute for INQ 241.

- A one-unit laboratory course in Biology, Chemistry, or Physics may substitute for INQ 250 or 251.
- A one-unit course in Anthropology, Criminal Justice, Economics, Geography, International Relations, Political Science, Psychology, or Sociology may substitute for INQ 260
- A one-unit course in Art, Art History, English, 300- or 400-level Foreign Languages literature or culture courses (NOT French 300-304, 330, 341; German 301, 335; Spanish 303, 304, 330, 335, 341, 402, 403), History, Music, Philosophy, Religion, or Theatre may substitute for INQ 270 or 271. Courses substituting for 270 must primarily cover material that dates from before 1500; courses substituting for 271 must primarily cover material that dates from after 1500.

### **The Capstone: Contemporary Issues**

Having seen ways in which different disciplines address questions, students complete the INQ courses with a required capstone seminar entitled “Contemporary Issues”. The course asks them to look back on their experiences and their work in the Intellectual Inquiry Curriculum and to synthesize diverse disciplinary approaches in a collaborative investigation of a contemporary issue. In addition to individual written assignments, students will work in small groups to research and develop a proposal concerning a concept, an approach, or a solution to a contemporary problem. They will be encouraged to draw on their previous course work, pool their intellectual resources and skills working with a group, gain additional practice in conducting research and writing clearly and persuasively, and finally, will present the work in a formal oral defense.

### **Foreign Language**

Students are required to complete the study of a foreign language through the first semester of the intermediate level (through the 201-level). For most students who continue a language studied in high school, this will require one or two units at Roanoke College; for students electing to take a new language this will require three units. Students may be exempted from all or part of the requirement by demonstrating competency in a foreign language (see “Competency Standards” described elsewhere in this Catalog).

### **Health and Human Performance**

All Roanoke college students will be required to take Health and Human Performance 160: Fitness for Life (one-quarter unit) to fulfill graduation requirements. In addition, all students will take a one-quarter unit course in a lifetime sport or activity which is different from the activity taken in Health and Human Performance 160. (All varsity athletes will take Health and Human Performance 160: Fitness for Life but may receive a Health and Human Performance activity competency for satisfactorily completing one season of a varsity sport). Health and Human Performance 160 cannot be repeated for credit and it is a prerequisite for all other HHP activity courses. Once the physical education requirement for graduation has been met, a student may not complete additional Health and Human Performance activity courses for credit.

### **Teacher Licensure**

Roanoke College offers a four-year program designed to prepare teachers in kindergarten, elementary, and secondary education within the requirements for the bachelor’s degree and the sequence of courses within a student’s academic major. The program provides the opportunity to gain teacher licensure in Virginia and approximately 40 other states through approval granted by the Commonwealth of Virginia under its National Association of State Directors of Teacher Education and Certification and the Legislative Contract Reciprocal Certification Programs.

Students who pursue licensure in education (elementary or secondary) must major in an academic area other than education. (Students may not major in Business Administration.) Securing an education advisor (preferably in the first year) is required. Students desiring to teach must plan their schedules to include



specific professional education courses. Requirements for student teaching are available from the department of Education. Deviation from the established program may necessitate Summer school or additional terms of attendance.

## **Honors Program**

The Honors Program is designed for students with excellent academic performance, broad extracurricular interests and leadership abilities. Approximately 40 freshmen and first semester sophomores are admitted to the Honors Program each year. Honors students must pass at least 33 academic units, including at least one unit of intensive learning, two one-quarter unit physical education activities (or the equivalent) and a one-quarter unit co-curricular requirement for a total of 33 3/4 units or the equivalent. Honors students must complete the Honors curriculum (described below) in place of the Intellectual Inquiry curriculum, maintain a 3.2 overall grade point average, and participate in the Honors Plenary Enrichment Program each semester they study on campus. Students who fail to achieve a grade point average of 3.0 in any term will be evaluated by the Honors Program Director.

The Honors Program substitutes a coordinated sequence of interdisciplinary courses for a portion of the core requirements. This sequence of courses includes:

Honors 101	Plenary Enrichment Program 1/4 unit
Honors 102	Plenary Enrichment Program (After the first year, required each term the student studies on campus. graded; no credit)
Honors 105	The Freshman Experience
Honors 170	Values Practicum
Honors 201	The Human Journey I
Honors 202	The Human Journey II
Honors 301	Topics in Honors (Two units from different divisions)
Honors 411	Contemporary Challenges
Honors 412	Independent Elective/Study Project or Independent study in the student's major-one unit

In addition, Honors students are required to complete either 1) three one-unit courses from the mathematical and natural sciences and two units from the social sciences, as described in Option I below, OR 2) two one-unit courses from the mathematical sciences, two units from the natural sciences, and one unit from the social sciences, as described in Option II below. For both options, any one-unit introductory lab course in biology, chemistry, or physics as well as INQ 250 and/or 251 (without regard for discipline) may count toward the science requirement; any one-unit introductory course in anthropology, economics, geography, political science, psychology or sociology, as well as INQ 260 may count toward the social science requirement.

### **Option I Course Requirements**

- (a) MATH (111 or higher) or STAT course (INQ 240 or STAT)
- (b) Lab Science course
- (c) Science course in different discipline from (b); or CPSC; or MATH (111 or higher); or INQ-241; or STAT course (INQ-240 or STAT) (if STAT course not taken in (a) above)
- (d) Two Social Science courses (different disciplines)
- (e) One of the HNRS 301 courses must be from the science division

### **Option II Course Requirements**

- (a) MATH (111 or higher) or STAT course (INQ 240 or STAT)
- (b) CPSC course; or MATH (111 or higher); or STAT course (INQ-240 or STAT) (if STAT not taken in (a) above); or INQ 241

- (c) Two Science courses (different disciplines)
- (d) One Social Science course
- (e) One of the HNRS 301 courses must be from the social science division

Honors students must also demonstrate proficiency in a foreign language through the intermediate level (202). In cases where a student presents a language at the introductory level but one which Roanoke College does not offer through the 202 level, completion of only one year of a modern foreign language at Roanoke College will be required. Students must complete two physical education activities. One of these must be HHP 160 (Fitness for Life); the other may be a one-quarter unit course in a different activity or participation in a varsity sport. A Plenary Enrichment Program of supplemental activities, a special scholarship, and a distinct recognition on the diploma and transcript are provided to Honors students.

### **Honors Elective**

An Honors elective at Roanoke College may be chosen by any student, not just Honors students, who have at least a 3.2 cumulative grade point average at the time of applying or the approval of the Honors Program Director. The elective consists of a student project that is guided and evaluated by a committee of three qualified persons, two chosen from the department of principal interest and including the project advisor, plus one other evaluator. The committee may request other specialists to join in the final evaluation of the student's work, which is to be the subject of an oral examination by the full committee. For additional details, consult the Honors Program Director. Honors in the major is not part of this Honors Elective option.

### **Internships, Independent Studies, and Independent Research**

Internships, independent studies, and independent research are available within most of the College's academic disciplines in order to provide students with a practical application of their particular majors or more specialized study in a particular area. Students who wish to pursue an internship, independent study or independent research should follow departmental guidelines for application. Generally, students wishing to register for independent studies, internships or independent research must make their requests known to a faculty member (the prospective supervisor) who, if agreeable to the request, will inform the department chair. One week prior to the beginning of each term the department chairs will complete and forward a request form to the Associate Dean for Academic Affairs and Administration. All approved requests are then sent to the Assistant Registrar in the Registrar's Office, and students are formally registered. The supervising professor will assign the grade; in the case of an internship, the professor will consult with the on-site supervisor if appropriate.

Independent studies and research are graded with letter grades. All internships are graded on a pass-fail basis; students must complete a minimum of 110 hours in the internship in order to earn credit. Students may not earn more than two units of internship credit toward a degree.

### **Summer Scholars Program**

*Professor Curt Camac, Program Director*

The Summer Scholar Program at Roanoke College is a grant program that enables qualified students to conduct intensive, independent research for eight to twelve weeks during the Summer. To qualify, a student must have a GPA of 3.0 or higher and must have completed eight units of credit by the start of the grant period. Each Summer scholar works with a faculty mentor who guides the project. Over the course of the Summer, students and mentors meet for a series of colloquia to share ideas. At the conclusion of the program, a day is set aside to showcase the work of the student scholars. In oral presentations, poster sessions, and research exhibits, they present the findings of their Summer-long research, on projects that range from polymer synthesis to the culture of bullfighting in Spain. The Summer Scholar award covers activation waiver for one unit of independent study, on campus housing, and a stipend of \$2500. Information is available from Dr. Curt Camac (Department of Psychology, 540-375-2478, [camac@roanoke.edu](mailto:camac@roanoke.edu)) and on the College's webpage.

## **Semester in Washington, D.C.**

*Professor Todd Peppers*

Roanoke College sponsors a one-semester program in Washington, DC through the Lutheran College Washington Consortium. Students live and work in the Nation's Capital. They take two one-unit academic courses and a two-unit internship in the office of a member of Congress, a government agency, a non-profit organization, a museum, a theater, or other challenging positions designed to meet the students' needs and interests. In addition, they participate in field trips, lectures, cultural activities, and community service.

This full semester program is available in the Fall and Spring and is open to Juniors and Seniors in most academic disciplines. During the summer, the program makes housing available for students who have secured their own internships. Information is available on campus through Dr. Todd Peppers (Department of Public Affairs, 540-375-2423, peppers@roanoke.edu) or Dr. Nancy D. Joyner, Dean, Lutheran College Washington Semester (1-888-456-5292), dean@washingtonsemester.org.

## **Study Abroad Opportunities**

Roanoke College offers many study abroad programs that allow students to earn academic credit while outside the U.S. Students may select from summer, semester, or academic year opportunities. International internships may also be accepted for academic credit. Through membership in several exchange programs, Roanoke College provides study options around the world in all academic disciplines. The International Student Exchange Program ([www.isep.org](http://www.isep.org)) offers study sites in 38 countries where the language of instruction may be in English or in a foreign language. The Conference of Rectors and Principals at Universities in Quebec or CREPUQ ([www.crepuq.qc.ca](http://www.crepuq.qc.ca)) exchange provides study opportunities at some of the most prestigious universities in Quebec, Canada. Study in all disciplines is available with instruction being in English or French. Two direct exchanges with premiere English and Irish universities allow Roanoke College students to earn credit while studying with British students. The University of East Anglia ([www.uea.ac.uk](http://www.uea.ac.uk)) offers courses in most disciplines at its campus in historic Norwich, England, while the University of Ulster ([www.ulster.ac.uk](http://www.ulster.ac.uk)) in picturesque Northern Ireland has five different campuses. In addition, Roanoke students may study at the Universidad Publica de Navarra in Pamplona Spain (all courses taught in Spanish). Opportunities to study in Asia include a semester program at Zhejiang University in Hangzhou, China, as well as an exchange program with Kansai Gaidai University ([www.kansai-u.ac.jp](http://www.kansai-u.ac.jp)) in Japan. Students are eligible to enroll in programs other than those administered by Roanoke College. However, institutional financial aid will not be awarded for them. Prior approval of all programs by the Associate Dean/Registrar is essential.

Regent's College in London ([www.regents.ac.uk](http://www.regents.ac.uk)) is affiliated with Roanoke College and offers an American liberal arts setting in a lovely campus set in the heart of central London. The Umbra Institute in historic Perugia, Italy, provides Roanoke students a unique opportunity to study Italian while enrolling in English-taught courses (primarily art, history, politics and culture). For non-exchange programs such as Regent's, Umbra and Hangzhou, the use of institutional financial aid is limited. An annual competition will be held in early December to determine the awarding of financial support for enrollment in these programs. Applicants must demonstrate appropriate academic preparation and maintain full-time student status prior to, and during, the term abroad.

Special programs unique to Roanoke College are the Virginia Summer Program at Oxford, where students may spend six weeks in residence at St. Anne's College of Oxford University, studying literature and history with English tutors, and the Intensive Learning Program, offering a menu of distinctive and highly focused study abroad programs during the last three weeks of May each year to cities like Madrid, Florence, Athens, Paris, Lima and Kyoto.

Students who wish to study abroad must obtain a minimum cumulative grade point average of 2.5 at Roanoke College at the time of their application for enrollment in a foreign university or other academic program outside the U.S. Students whose grade point average falls within the range of 2.3 to 2.5 may request a waiver of the grade point requirement from the Director of International Education, based on unusual circumstances that may have affected their academic performance at Roanoke College.

Prior to traveling, all students must seek approval for their planned coursework first from the department chair of their major department and then from the Associate Dean/Registrar. Before seeking this approval, students should consult with their academic advisor for assistance in selecting courses. Occasionally, students arrive at their study abroad location only to find that the courses for which they have secured prior permission are closed or not available. In those cases, students should make every effort to contact their department chair, as well as their advisor and the Associate Dean/Registrar, by phone, fax, U.S. mail or e-mail, to secure permission for alternate courses. Only by obtaining this approval can students be sure of the transferability of their courses. In instances where prior approval is not granted, students must bring back to their department chairs textbooks, syllabi, and all graded coursework for the purpose of having the course(s) evaluated for transferability. Credit will be granted if the courses are appropriate to the academic curriculum of the College. In all cases, transfer credit will only be granted for work in which a grade of "C-" or higher (or the equivalent) has been earned. Transfer grades will neither appear on the Roanoke College transcript nor be used in calculation of the cumulative or major grade point average. Credit may be granted in the major, minor, concentration, general education or for elective credit. Students studying abroad will be granted a waiver of the residency requirement so that coursework can be transferred as part of the last eight units of degree credit.

Inquiries should be addressed to the Office of International Education, 303 Administration Building, (540-375-2299). Roanoke College is a member of NAFSA: Association of International Educators and of the Institute of International Education.

### **Preparation for Graduate Work**

In many professions, it becomes necessary for a student to make an academic commitment beyond the undergraduate level. It is recommended that students seek advice from their academic advisor on the selection of proper courses which will best serve them in graduate school. Career Services and the Registrar's Office are also available for assistance.

### **Health Professions Programs**

Students planning to seek admission to medical, dental, pharmacy, veterinary school or to other health professions should plan their courses of study early. The Health Professions Advisory Group (HPAG), a group of faculty members, serves to counsel students as to required courses and steps to take in the admission process. Students should register with HPAG early in their studies at Roanoke in order to receive the greatest assistance from the committee.

Although most students preparing for further study in the health professions major in one of the sciences, it is possible to major in any field of interest, provided the minimum requirements of the program are met. Requirements of individual schools and programs vary, so it is important to check with the committee and the professional school catalog for specific requirements.

Generally most medical and dental schools require the following courses as the minimum for admission. These are usually taken in the first three years of college.

Biology	Two units
Chemistry, general	Two units
Chemistry, organic	Two units
Physics	Two units
The Writing Courses	Two units
Mathematics	Two units

Current members of HPAG are: Dr. Brooks Crozier, Chair (BIOLOGY), Professor Jim Buriak (HEALTH AND HUMAN PERFORMANCE), Dr. Gary Hollis (CHEMISTRY), Dr. DorothyBelle Poli (BIOLOGY), Dr. Catherine Sarisky (CHEMISTRY),and Dr. Greg Weiss, (SOCIOLOGY).

### **Pre-Law Program**

*Professor Todd Peppers, Advisor*

There is no single prescribed course of study for those preparing for a career in law. Law schools seek students who are capable of analytical reasoning and clear, crisp writing. These skills may be developed in a variety of academic majors.

The Intellectual Inquiry curriculum at Roanoke College emphasizes those skills necessary for success in law school. In addition, courses offered in political science, criminal justice, business administration and sociology majors provide training in specific law-related areas. Critical thinking and writing are major components of courses in these fields.

Admission to law school is quite competitive. Therefore, it is important that students contact the pre-law advisor early in their academic careers. The pre-law advisor has information on law school admissions, curricula, and financial aid.

### **Pre-Ministerial Program**

*Professor Ned Wisnefske, Advisor*

The most important requirement for students heading for seminary or graduate study in religion is a broad education. The Intellectual Inquiry curriculum at Roanoke College provides that. Many majors are also useful for future training for the ordained ministry. However, it is very important to have a good grasp of the history of philosophy and at least an introduction to the various fields of religious study—sacred texts, history of religions, religion and society, and theology. Knowledge in these fields is often presupposed in seminary training and graduate school. It is advisable for students planning to attend seminary to consult with a member of the department of Religion and Philosophy and/or the Dean of the Chapel.

### **Pre-Social Work Advising Program**

*Dr. Kristi. L. Hoffman, Advisor*

Students who are interested in pursuing careers in Social Work are well served by a broad liberal arts curriculum and focused study in the social sciences, particularly Sociology and Psychology. Successful preparation for graduate study in Social Work involves developing knowledge of societal conditions, interpersonal and group dynamics, and individual behaviors that are linked to the need for social services and therapeutic intervention. The Sociology department at Roanoke College provides specialized advising for students who would like to direct their undergraduate studies and co-curricular activities toward the helping professions. In addition, the theoretical grounding, critical thinking and social research skills that are hallmarks of the general Sociology curriculum provide a particularly useful foundation for graduate study in Social Work. Guided internships in local social service agencies are available in the department and highly recommended. Admission to many MSW programs is increasingly competitive, so students should consult with the Pre-Social Work advisor in Sociology early in their undergraduate careers.

### **Dual Degree Engineering Programs**

*Dr. Richard Grant, Coordinator*

For students interested in entering engineering and allied professions, Roanoke College offers combined plan programs with Virginia Polytechnic Institute and State University and University of Tennessee-Knoxville. Through these programs students are given the opportunity to broaden their academic background at a liberal arts college before beginning professional studies. The programs offer an attractive alternative to the highly structured, traditional engineering curricula.

In each of the dual degree programs, students will complete all core requirements of Roanoke College and the majority of the requirements for a degree in Physics or Mathematics in the first three years of their program. Students should contact the Program Coordinator upon enrollment to discuss a recommended course of study. Some of the specifically required courses vary with the engineering college to which the student will transfer and also the engineering specialty within a given college. In general, the following

courses are required at Roanoke College in addition to the courses listed under the specific engineering programs listed below:

**PHYSICS MAJOR:** PHYS 201, 202, 203, 370, one physics course 300-level or above, and one 400 level physics course. MATH 121, 122, 201, and 331, CHEM 111 and 112

**MATH MAJOR:** PHYS 201 and 202, MATH 121, 122, 131, 201, and 331, STAT 202, CPSC 120, and three additional courses chosen from (MATH 306, 321, 361, 388, 402, 431, 482; STAT 301, 401, 403, 404), CHEM 111 and 112

After completion of coursework at Roanoke College, the student transfers to one of the participating universities. Admission requirements vary. In several additional years, students complete the requirements for an engineering degree. Selected coursework from the engineering college is transferred back to Roanoke College to complete major requirement and the 33 1/2 total units needed for graduation.

### **Program with Virginia Tech**

The College of Engineering at Virginia Tech and Roanoke College have joined to provide a dual degree program in engineering and the liberal arts. Students pursue a joint program of study beginning at Roanoke College and then transfer to Virginia Tech, earning a B.S. degree in engineering from Virginia Tech and the B.A. or B.S. degree with a major in Physics or Mathematics from Roanoke College. This program allows the student at Roanoke College to begin his or her education at a small, high-quality, liberal arts institution, to sample basic engineering courses at a nearby internationally recognized engineering college before committing to the full study of engineering, and then, if desired, to pursue degrees at both institutions.

In addition to the courses described above, the student should also take the introductory engineering courses required of engineering students at Virginia Tech. These courses are also offered at Virginia Western Community College and should be taken during the Summer between the student's first and second year or second and third year at Roanoke College.

Admission to Virginia Tech as a transfer student may occur at any time after two years of study at Roanoke College. While admission may be approved for the Spring semester, Summer or Fall transfer is encouraged. Transfer applicants must meet all normal transfer admission requirements of Virginia Tech.

### **Program with University of Tennessee-Knoxville**

Upon successful completion of this program, students will receive a B.S. with a major in Physics from Roanoke College and a degree in Nuclear Engineering from the University of Tennessee-Knoxville. Students who are sufficiently prepared and plan their course selections carefully should be able to complete the program in a total of five years, three at Roanoke College and two at the University of Tennessee- Knoxville.

In addition to the courses described above for the major in Physics, the student should also take MATH 482 and STAT 202.

Admission to the University of Tennessee as a transfer student may occur at any time after two years of study at Roanoke College. Applications are available from the University of Tennessee-Knoxville Office of Admissions, and the applicants should specifically note in a cover letter their desire to be admitted under the dual degree program with Roanoke College. Participants in this program who have completed the requirements listed above and have a grade point average of 3.0 or above are guaranteed admission to the College of Engineering's nuclear engineering major at the University of Tennessee-Knoxville. It is the student's responsibility to ensure that he or she meets all degree requirements at University of Tennessee-Knoxville. Completion of degree requirements at the University of Tennessee-Knoxville does not constitute completion of Roanoke College degree requirements or vice versa.

## **COURSES OF INSTRUCTION**

In this section of the Catalog, majors or programs are listed alphabetically. Individual courses are listed under each heading. For purposes of administration, several majors or programs often come under a single department. Students interested in an academic major or minor should see the department chair. Students are responsible for noting and fulfilling all prerequisites for each individual course. All courses in the regular session with enrollments of five or fewer students may be canceled unless one or more of the following conditions are met:

1. At least three of the students need the course in the semester in which it is being offered in order to complete the requirements for a major.
2. The course is offered as a prerequisite for other courses in the major or concentration and cannot be rescheduled for another semester in which it might attract more students.
3. When one or two students need the course to graduate and special arrangements have not been able to be made within the department. A "required course" will be interpreted to mean not only those specifically required of all students in a major, but also those electives offered on a rotational basis when that course is the only one available in a particular semester which a student can use to satisfy major requirements.

**Department of Biology** Biology; Environmental Policy; Environmental Science

**Department of Business Administration and Economics** Accounting; Business Administration; Business Information Systems; Business Leadership; Economics; Finance; Global Business; Health Care Administration; Human Resource Management and Marketing

**Department of Chemistry** Biochemistry; Chemistry

**Department of Education** Teacher Certification and TESL

**Department of Health and Human Performance** Athletic Training; Health and Exercise Science; Health and Physical Education; Sport Management

**Department of English** American Literature; British Literature; English; Communications; Creative Writing; Peace and Justice Studies

**Department of Fine Arts** Art; Art History; Dramaturgy; Music and Theatre Arts

**Department of Foreign Languages** Chinese; French; German; Italian; Japanese; Latin; Linguistics; Russian and Spanish

**Department of History** East Asian Studies; Geography; Hispanic/Latin American and Caribbean Studies; History

**Department of Mathematics, Computer Science and Physics** Mathematics; Computer Science; Physics; Statistics

**Department of Psychology** Human Development; Psychology

**Department of Public Affairs** Africa and the African Diaspora; American Politics; Criminal Justice; Foreign Politics; International Relations; Legal Studies and Political Science

**Department of Religion and Philosophy** Christian Studies; Classics and the Ancient Mediterranean World; Gender and Women's Studies; Parish Youth Leadership; Philosophy; Religion

**Department of Sociology** Anthropology; Gender and Women's Studies; Health Care Delivery; Information Analysis; Sociology

The listing of a course in this Catalog does not obligate the College to teach the course unless there is sufficient enrollment to justify it. Courses are subject to change without notice.

## **AFRICA AND THE AFRICAN DIASPORA**

*Dr. Whitney Leeson, Coordinator*

The Africa and the African Diaspora Studies concentration offers an interdisciplinary program for the study of Africa and African American cultural history. Students from any major interested in developing a specialization in Africa and the African Diaspora may earn a concentration in Africa and the African Diaspora Studies by successfully completing (with a cumulative grade point average of at least 2.0) at least six units. Of these, three must be chosen from among “core” Africa and the African Diaspora courses in History, Political Science, English, and Sociology. Three additional units must be taken. One will be taken as an Independent Study, Internship, or Special Topics course on or off campus. Two others will be selected from among a group of relevant courses approved by the concentration coordinator.

### **I. Core Courses**

Three units from among the following courses:

HIST 253	Africa to 1850
HIST 254	Africa from 1850
HIST 255	History of Southern Africa
POLI 224	Comparative Political Systems: Africa
SOCI 224	Race and Ethnicity
HIST 350	Issues in African History
ENGL 310	Literatures of the African Diaspora
IL 277	African Faces and Voices

### **II. Special Topics/Independent Study/Internship**

One unit from any of the following (subject to approval of the concentration coordinator):

A Special Topics unit focused on Africa and/or the African Diaspora.

An Independent Study focused on Africa and/or the African Diaspora.

An Internship relevant to Africa and/or the African Diaspora.

### **III. Electives:**

Two units from the following:

ENGL 302	Southern Literature
FREN 201	Intermediate French
FREN 315	Francophone Societies
HIST 272	Latin America
HIST 450	Research Seminar in African History
POLI 252	Human Rights Policy
RELG 130	Living Religions of the World
SPAN 201	Intermediate Spanish
SPAN 312	Civilization and Culture: Spanish America

Elective units may also be selected from ENGL 360, HIST 254, HIST 350, POLI 224, SOCI 224, and IL 277 if not taken to fulfill the requirements of Part I.

One elective unit may be chosen from Special Topics, Independent Study, or Internship if not taken to fulfill the requirements of Part II (subject to approval by the concentration coordinator).

## **ANTHROPOLOGY CONCENTRATION**



*Coordinators: Dr. Whitney A. M. Leeson and Dr. Chad Morris*

A major in Anthropology is not offered.

A concentration in Anthropology offers students the opportunity to study human beings around the globe using a comparative and holistic framework. In this interdisciplinary concentration, students will develop a recognition of global and historical cultural diversity that will be beneficial in careers that value cross-cultural communication, including business, the arts, education, public policy, and social services. Students in the anthropology concentration will systematically explore the extraordinary range of similarities and differences in humans and human behavior across time and space. Students from any major may graduate with a concentration in Anthropology by successfully completing at least six units from the classes described below and earning a cumulative grade point average of at least 2.0. Of these six units, one must be ANTH 101, Introduction to Cultural Anthropology, which the coordinators recommend taking as early as possible. ANTH 101, however, is not a prerequisite to other courses in the Anthropology concentration. Of the remaining five units at least one must come from Anthropology's other subfields of archaeology (ANTH 218), linguistics (ANTH 320), or physical anthropology (ANTH 240). Additionally, at least one course must include a fieldwork experience, chosen from ANTH 310, ANTH 380, ANTH 406, ANTH 416, or another approved course. In accordance with the general rules applicable to all concentrations, no more than three courses from a student's major may apply to the concentration and at least three courses in the concentration must be completed at Roanoke College.

**Required Courses:**

ANTH 101 Introduction to Cultural Anthropology, along with at least one course from both the subfield and fieldwork categories.

**Subfield Category:**

ANTH 218 Introduction to Archaeology (cross-listed as HIST 218)  
ANTH 240 Race and Human Evolution  
ANTH 320 Basic Linguistics (cross-listed as ENGL 320/LING 320)

**Fieldwork Category:**

ANTH 310 Global Storytelling: Exploring the Ethnographic Process  
ANTH 380 Creating Community Change: Applied Anthropology  
ANTH 416 Internship  
Any approved IL or other course with a substantial anthropological fieldwork component

**Elective Courses:**

ANTH 212 Food and Culture  
ANTH 218 Introduction to Archaeology (cross-listed as HIST 218)  
ANTH 240 Race and Human Evolution  
ANTH 310 Global Storytelling: Exploring the Ethnographic Process  
ANTH 320 Basic Linguistics (cross-listed as ENGL 320/LING 320)  
ANTH 380 Creating Community Change: Applied Anthropology  
ANTH 406 Independent Study  
ANTH 416 Internship  
MUSC 240 Music in Culture  
SOC 323 Health, Illness and Healing  
SOC 327 Religion and Culture  
SOC 337 Environmental Sociology

An internship or independent study focused on an anthropological topic is encouraged; the topic must be approved by the concentration coordinators. Interested students should contact the concentration coordinators as soon as possible for help in identifying additional appropriate courses available on campus (including special topics, INQ, and INQ-IL courses) or through overseas studies programs.

**101 Introduction to Cultural Anthropology**

An introduction to the concepts and methods used by anthropologists to study human societies and cultures. Case studies from primarily non-Western cultures will provide an overview of the culture concept and its relationship to institutions of kinship, marriage, gender, language, race and ethnicity,

production, exchange, political organization, magic, religion, and the arts. This course is required for the Anthropology concentration and is an elective in the Sociology major and minor programs. (1)

Lecture: 3 hrs/wk.

### **212 Food and Culture**

The consumption of food is not merely a human biological need, but also a means of defining ourselves according to culture. To understand what and how a people eat is to understand part of the history and values of that group. This course will explore the production, distribution, and consumption of food in different human societies, examining the influential role food has played in human governance, economy, spiritual belief, and gender roles. We'll also examine modern foodways, paying careful attention to issues of identity, food security, and globalized food production. Finally, we'll focus on our own foodways, examining the rise of "nutritionism" in the United States, along with its implications for our health, economy, and, of course, culture. This course is an elective in the Sociology major and minor programs. (1).

Lecture: 3 hrs/wk.

### **218 Introduction to Archaeology**

An introduction to the various theories of excavation and survey techniques, culture change, dating methods, and reconstruction of economic, social and religious practices or prehistoric societies. Case studies focus on both old- and new-world cultures. (Cross-listed with HIST 218). (1)

Lecture: 3 hrs/wk.

### **240 Race and Human Evolution**

The goal of this course is to create a broad understanding of the human existence from a biological standpoint: Where did we come from? How can the physical differences between us be explained? This introduction to the basic concepts of physical/biological anthropology discusses scientific theories of human evolution and biodiversity alongside detailed discussion of the cultural origins of human racial classifications. Topics covered include basic genetic and evolutionary theory, human biological adaptation, primate evolution and behavior, fossil and other evidence of human evolution, the inherent fallacy associated with biologically-driven racial classification, and the history of "race" as a concept in popular and academic discourse. This course is designed to be accessible to both non-science and science majors. (1)

Lecture: 3 hrs/wk.

### **310 Global Storytelling: Exploring the Ethnographic Process.**

Ethnography is anthropology's hallmark methodology; a dynamic way of seeing and living in the world of the other. This is a project-intensive course examining the ways in which anthropologists conduct ethnographic research and write ethnography. Students will practice a variety of ethnographic fieldwork techniques including, but not limited to, participant observation, field note-taking, interviewing, mapping, photography, and film production. We will examine a few key ethnographic works, several anthropologists' reflections on the practice of ethnography, and a variety of analytic and interpretive approaches to the production of ethnography. This course is an elective in the Sociology major and minor programs. (1)

Lecture: 3 hrs/wk.

### **320 Basic Linguistics**

The scientific study and description of language according to the principles of modern linguistics. (Cross-listed with ENGL 320 & LING 320) (1)

Lecture: 3 hrs/wk.

### **380 Creating Community Change: Applied Anthropology**

How can the anthropological worldview be used to improve the lives of individuals and communities? Why do some development programs work, while others fail? The purpose of this course is to allow you to recognize the role of culture in contemporary human problems, and to use this recognition to identify

means of creating positive, sustainable, and minimally biased change. The course will include overviews of the history of applied anthropology and of the current state of the field in several different domains of application, including health, the environment, business, and education. Importantly, the course will also contain considerable discussion of the ethical quandaries inherent in applied work. Finally, the course includes an active community research component, which is designed to provide some field experience in applying course material. As such, you will be exposed to some training in the anthropological methods of participant observation and interviewing. This course is an elective in the Sociology major and minor programs. (1)

Lecture: 3 hrs/wk.

#### **406 Independent Study**

A supervised research project or extensive literature review. This course will be an elective within the Anthropology concentration. (1)

*Pre-requisite: Approved written proposal.*

#### **416 Internship**

Practical experience in a community or field setting in which anthropology is applied. This course will be an elective within the Anthropology concentration. (1)

*Pre-requisite: Approve written proposal.*

## **ART**

*Professor Hardwig, Long; Associate Professors Heil, Shortridge; Assistant Professor Hargrove; Senior Lecturer Hartson; Lecturer Watson*

The Art Program consists of 11 units including a five-unit core, expected to be completed by the end of the sophomore year, and six upper-level courses as follows:

#### **Core Courses** (five units)

##### **Two units from the following:**

- ART 111 Drawing I
- ART 121 Painting I
- ART 131 Photography I
- ART 151 Two-Dimensional Design

##### **One from the following:**

- ART 171 Ceramics I
- ART 181 Sculpture I

##### **Both of the following:**

- ARTH 146 Survey of Art History I: Prehistoric through Medieval
- ARTH 156 Survey of Art History II: Renaissance through Modern

#### **Art majors must complete six additional units of art courses:**

a 200-level and 300-level course in a single medium: Painting, Ceramics, Photography, Drawing, Printmaking, Graphic Art, Sculpture;

at least one 200-level or 300-level course in a second medium;

3 electives: 2 additional units in art, 1 additional unit in art or art history

### **Portfolio Review for Entry to the Major in Spring of Sophomore Year**

1. Admission to the major normally occurs in the Spring of the sophomore year after portfolio review; all prospective majors must successfully complete portfolio review.
2. Students must have completed or be currently enrolled in the five core courses before applying for the major and must maintain at least a 2.0 grade point average in these five courses.
3. Students should consult with the Art Area Faculty for areas of study and departmental policies.
4. Students will be assigned an art faculty advisor after successfully completing sophomore review.
5. Transfer students who wish to major in art should consult with the Chair of the Fine Arts department as soon as possible after enrollment at Roanoke College.

### **Art Education**

For courses in this sequence or requirements for teacher licensure, the student should consult with the Chairpersons of both the Education and Fine Arts departments.

### **Art Minor**

The minor in Art consists of six units. Three must be courses from the core and two units must be studio art classes at the 200-level and above. The sixth unit may be any studio art course.

#### **101 Arts and Crafts in the Schools**

Lecture and group discussion on arts and crafts as a form of communication. Emphasis on teaching arts and crafts in schools. Includes work in fibers, clay, paper, and other areas. (Does not apply to major or minor programs in art.) (1/2)

Lecture/Studio: 3 hrs/wk.

#### **111 Drawing I**

This course is designed to develop a fundamental understanding of drawing through various approaches, techniques, and media. Emphasis will be on building skills and knowledge through the act of drawing, working primarily from life. (1)

Lecture/Studio: 4 hrs/wk.

#### **121 Painting I**

Introduction to basic principles of painting: knowledge and use of media, understanding of color, composition, and form using the painting medium, and development of different styles and techniques. Emphasis will be on building skills and knowledge through the act of painting, working primarily from life. (1)

Lecture/Studio: 4 hrs/wk.

#### **131 Photography I**

Theory and practice of black and white photographic processes including film development, paper processing, camera mechanics, image composition, and history of photography. (1)

Lecture/Studio: 4 hrs/wk.

*(35mm camera required.)*

#### **151 Two-Dimensional Design**

An exploration of the theory and practice of art fundamentals. Introduction to the elements of studio art, including form, line, shape, value, texture, color, space, content, and style. Emphasis on visual problem-solving, the vocabulary of art, and craftsmanship in the use of materials. Computer applications in graphics introduced. (1)

Lecture/Studio: 4 hrs/wk.

#### **171 Ceramics I**

An introduction to clay emphasizing both hand building and throwing on the wheel; both ceramic sculpture and pottery vessels will be made. The focus is on understanding clay in both technical and creative terms. (1)

Lecture/Studio: 4 hrs/wk.

### **181 Sculpture I**

An introduction to the basic ways of seeing and responding to the third dimension. The course is organized as a series of projects which approach the use of materials, the construction of forms, and the articulation of artistic concepts in a variety of ways. (1)

Lecture/Studio: 4 hrs/wk.

### **191 Special Topics**

Studio experience in areas not normally offered, with the focus to be determined by the art faculty. May be repeated for credit. (1/4)

Lecture/Studio: Hours vary.

*Prerequisite: Permission.*

### **211 Drawing II**

This course is designed to broaden the student's understanding of drawing through exploration of various topics which could include: development of subject matter, contemporary drawing issues, expression and representation, the human form, etc. We will work from life and imagination. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 111.*

### **221 Painting II**

This course is designed to broaden the student's understanding of painting, emphasizing the interconnection of style, expression, composition, media, and representation to subject matter. We will work from life and imagination. (1)

Lecture/Studio: 5hrs/wk.

*Prerequisite Art 121.*

### **231 Photography II**

Continuation of Introduction to Photography with more advanced problems and more independent outside work on the part of the student. Fundamentals of studio lighting, use of medium format camera, archival print processing, experimental techniques, computer imaging applications, and historical context of styles will be explored. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 131 and 35 mm camera.*

### **241 Printmaking: Etching and Relief Methods**

Fundamentals of printmaking in the areas of etching, block printing, collagraphs, and monoprinting. Emphasis on fine art production and techniques of each art form. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 111, Art 151 or permission.*

### **261 Graphic Design I: Graphic Design and Reproduction Techniques**

Introduction to basic layout design with an emphasis on the stages of camera-ready art production and the use of computers. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 111 or Art 151 or permission.*

### **271 Ceramics II**

Studio practice in forming, firing, and glazing ceramic ware; individual instruction will be emphasized. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 171.*

### **281 Sculpture II**

Further exploration of the methods and techniques of three-dimensional form. Additive, subtractive, and constructive procedures using wood, clay, stone, and metal will be emphasized. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 181.*

### **291 Special Topics**

Studio experience in areas not normally offered, with the focus to be determined by the art faculty. May be repeated for credit. (1/2)

Lecture/Studio: Hours vary.

*Prerequisite: Permission.*

### **311 Drawing III**

Further exploration of themes addressed in ART 211, engaged at the advanced level, with more individualized instruction. Direction of work, creative solutions, and expressive use of drawing medium emphasized; a significant amount of independent work must be produced.

Lecture/Studio: 5hrs/wk. (1)

*Prerequisite: Art 211.*

### **321 Painting III**

Further exploration of themes addressed in ART 221, engaged at the advanced level, with more individualized instruction. Direction of work, creative solutions, and expressive use of painting medium emphasized; a significant amount of independent work must be produced. (1)

Lecture/Studio: 5hrs/wk.

*Prerequisite: Art 221.*

### **331 Photography III**

Advanced study of materials, techniques, and equipment in traditional and digital photography. A significant amount of mature work must be produced based on individual projects proposed by the student. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 231.*

### **341 Printmaking: Silkscreening and Planographic Methods**

Fundamentals of printmaking in the areas of stencils, photo-silkscreening, computer applications, and lithography. Emphasis on fine art production and techniques of each art form. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 151 or permission.*

### **361 Graphic Design II: Advertising Design Fundamentals**

Introduction to the conceptual, artistic, and technical methods of visual communication used by different advertising media. Introduction to computer applications in advertising. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 261.*

### **371 Ceramics III**

Advanced study of materials and techniques in ceramics. Individual instruction will be emphasized; a significant amount of independent work must be produced. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 271.*

### **381 Sculpture III**

Advanced investigation of the potential of sculptural form. Additive, subtractive, constructive, and cast forms will be emphasized, and projects will be selected depending on student interest. A significant amount of independent work must be produced. (1)

Lecture/Studio: 5 hrs/wk.

*Prerequisite: Art 281.*

### **391 Special Topics in Art**

Selected studies in specialized studio areas. May be repeated for credit. (1)

Lecture/Studio: Hours vary.

*Prerequisite: Permission.*

### **405, 406, 407 Independent Study and Research**

A program of advanced intensive study and experience in art under the guidance of the art area staff. (1/2, 1, 1/2)

Lecture/Studio: Hours vary.

*Prerequisite: Completion of all coursework in the area of interest and submission of a written proposal, following departmental guidelines.*

### **416 Art Internship**

Practical experience working in or with artistic organization as participant-observer, leading to the preparation of a report which describes and evaluates that organization's activities. (1)

Lecture/Studio: Hours vary.

*Prerequisite: Completion of all coursework in the area of interest and submission of a written proposal, following departmental guidelines.*

### **495, 496, 497 Honors Project**

A program of independent study culminating in the public presentation of a paper or artistic creation. (1/2, 1, 1/2)

*Prerequisites: To qualify for consideration to receive honors in the major, a student, in the senior year or in the summer prior to the senior year, must work under the guidance of a faculty committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project.*

## **ART HISTORY**

*Professor J. Long; Assistant Professor Hargrove*

The goal of Art History is to connect historical events and human experiences with visual expression. The major begins with a required 2-semester general survey, moves to period-specific surveys, advances to specialized lecture/discussion classes within periods, and culminates in seminars. This sequence of courses allows students to develop their mastery of subject matter — objects, artists, and ideas — while at the same time building their skills at interpreting, assessing, and explaining that subject matter and the methodologies for its study.

Students planning to go on to graduate school are urged to study at least one foreign language (preferably German) through the intermediate level.

### **Art History Major**

A major in art history requires the completion of ten units. These include:

ARTH 146 Survey of Art History I: Prehistoric through Medieval

ARTH 156 Survey of Art History II: Renaissance through Modern

Three, 200-level Art History classes with one from each of the following areas: Ancient/Medieval; Renaissance/Baroque; American/19th & 20th Centuries

Two Art History classes at or above the 300 level

ARTH 456 Research Seminar in Art History

Two electives: Electives may come from art history, from studio art, or from courses in another major that have been approved by the art history faculty.

### **Art History Minor**

The minor in Art History is designed to give students a general experience of both the content and methods of art history. A minor in art history requires the completion of six units, including:

ARTH 146 Survey of Art History I: Prehistoric through Medieval

ARTH 156 Survey of Art History II: Renaissance through Modern

Two, 200-level Art History classes, from different areas: Ancient/Medieval; Renaissance/Baroque; American/19th & 20th Centuries

One Art History class at or above the 300 level

One elective: Electives may come from art history, from studio art, or from courses in another major that have been approved by the art history faculty.

### **146 Survey of Art History I: Prehistoric through Medieval**

A survey of representative monuments of painting, sculpture, architecture, and the crafts from ancient times through the medieval period. Non-Western art and culture will be paralleled where appropriate. The works of art will be considered in terms of their historical context, and ways of understanding visual evidence will be proposed. (1)

Lecture/Discussion: 3 hrs/wk.

### **156 Survey of Art History II: Renaissance through Modern**

A survey of representative monuments of painting, sculpture, architecture, and the crafts from the Renaissance through the modern period. Non-Western art and culture will be paralleled where appropriate. The works of art will be considered in terms of their historical context, and ways of understanding visual evidence will be proposed. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisites: ARTH 146 or permission.*

### **226 Greek and Roman Art**

An examination of the major works of art produced during the ancient Greek and Roman periods. Aspects of Greek and Roman thought, politics, religion, and patronage will be explored to explain the functions, styles, and themes of the art of these cultures.(1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisites: ARTH 146 or permission.*

### **236 Medieval Art**

An exploration of the art produced in Europe from the 4th to the 14th centuries. The class will examine how visual culture reflects the political, social, and religious needs of different communities throughout the period. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisites: ARTH 146 or permission.*

### **246 Italian Renaissance Art**

The study of Italian art from Giotto to Michelangelo. Aspects of Italian Renaissance culture and patronage will be explored in order to explain the styles and themes of the period. Where appropriate, the accomplishments of Northern Renaissance artists will be introduced. (1)

Lecture/Discussion: 3 hrs/wk.



*Prerequisite: ARTH 146 or permission.*

### **256 Baroque Art**

An examination of the major monuments of European art produced between 1600 and 1700. Aspects of Baroque culture and patronage will be explored in order to explain the styles and themes of the period. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: ARTH 146 or permission.*

### **276 The Arts of the United States**

A historical and conceptual survey investigating American architecture, painting, crafts, and sculptures. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: ARTH 156 or permission.*

### **286 19th-Century European Art**

An examination of the major movements of European art from Neoclassicism to Post-Impressionism (1780-1900). The various works of art will be approached in terms of cultural and critical contexts, with an emphasis on the Enlightenment, political revolutions, and the concept of "modernity." (1)

Lecture: 3hrs/wk.

*Prerequisite: ARTH 156 or permission.*

### **291 Special Topics in Art History**

Selected studies in specialized art history areas. May be repeated for credit. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: Permission.*

### **296 20th-Century Art and Architecture**

An analysis of the main schools of modern art and architecture in Europe and America from the opening of the century to the 1980s. The various works of art will be approached in terms of cultural and critical contexts. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: ARTH 156 or permission.*

### **336 Issues in Medieval Art**

An examination of issues important to the period. Topics vary. May be repeated for credit. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: ARTH 146 or permission.*

### **343 Early Netherlandish Painting**

Robert Campin, Jan van Eyck, and Rogier van der Weyden set the tone for the Art of the Netherlands in the fifteenth century. This class will study each Artist's oeuvre and how it reflected contemporary concerns, particularly the interrelationship between the historical context, religious life, and social standing of the Artists who made the paintings and the patrons who commissioned and used them. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: ARTH 146 or permission.*

### **346 Issues in Renaissance Art**

An examination of issues important to the period. Topics vary. May be repeated for credit. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: ARTH 146 or permission.*

### **348 Leonardo, Michelangelo, and Raphael**

In the 21<sup>st</sup> century, Leonardo, Michelangelo and Raphael are considered *the* three Artistic geniuses of Italian Renaissance Art. This class will study each Artist's oeuvre and how it reflected contemporary

concerns, examine the interdependence of career and biography, and consider notions of genius in the study of Art. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: ARTH 146 or permission.*

### **353 The Dutch Golden Age: Rembrandt and Vermeer**

Rembrandt and Vermeer are among the most popular “Old Master” painters. Exhibitions of their works and movies and books about their lives attract huge audiences. This course explores the oeuvres of these two painters, comparing what we know (and want to know) about them as Art historians with how they have been seen by non-scholars in the past twenty-five years. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: ARTH 146 or permission.*

### **356 Issues in Baroque Art**

An examination of issues important to the period. Topics vary. May be repeated for credit. (1)

Lecture/Discussion: 3 hrs/wk.

*Prerequisite: ARTH 156 or permission.*

### **381 Romanticism**

An examination of European Art from 1795-1848, focusing on the cultural concept of Romanticism, which is a broad perspective characterized by drama, tension and exoticism. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: ARTH 156 or permission.*

### **386 Issues in Modern Art**

An examination of issues important to the period. Topics vary. May be repeated for credit. (1)

Lecture: 3 hrs/wk.

*Prerequisite: ARTH 156 or permission of the instructor.*

### **388: Impressionism and Post-Impressionism**

Explores in detail the work of major figures in French Art during the second half of the 19<sup>th</sup> century, including: Monet, Degas, Van Gogh, Gauguin and Cezanne. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: ARTH 156 or permission.*

### **391 Special Topics in Art History**

Selected studies in specialized art history areas. May be repeated for credit. (1)

Lecture/Studio: hours vary.

*Prerequisite: Permission.*

### **406 Independent Study and Research**

A program of advanced intensive study and experience in art history under the guidance of the art history staff. (1)

Lecture/Studio: Hours vary.

*Prerequisite: Permission and submission of a written proposal, following departmental guidelines.*

### **416 Art Internship**

Practical experience working in or with artistic organization as participant-observer, leading to the preparation of a report which describes and evaluates that organization's activities. (1)

Hours vary.

*Prerequisite: Permission and submission of a written proposal, following departmental guidelines.*

### **456 Research Seminar in Art History**

A seminar approach to selected topics for advanced students. Topics vary. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

### **495, 496, 497 Honors Project**

A program of independent study culminating in the public presentation of a paper. (1/2, 1, 1/2)

Prerequisites: To qualify for consideration to receive honors in the major, a student, in the senior year or in the Summer prior to the senior year, must work under the guidance of a faculty committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project.

## **BIOCHEMISTRY**

*Professor Gary Hollis, Coordinator; Assistant Professors Johann, Sarisky*

Biochemistry is one of the most important interdisciplinary fields in science today. Biochemistry is the study of the chemical processes of living organisms, including the molecular structures of biomolecules, their reactions (e.g. metabolism, genetic expression), and regulation of those reactions. The biochemistry curriculum at Roanoke includes substantial curricular components from both the biology and chemistry departments. Opportunities for Biochemistry graduates include graduate study in biology, chemistry, or biochemistry, employment in the biotechnology or pharmaceutical industries, or pursuit of a professional degree in a medical field. Biochemistry is one of the courses of study available to students interested in medical school, veterinary school, dental school, and other health professions.

### **The Biochemistry Major**

The B.S. in Biochemistry requires 12.5 units in Chemistry and Biology, including CHEM 110 or 111, 112, 221, 222, 331, 341, 342, 280(1/2), BIOL 120, 210, 315, and either 380 or 400, and

One of these two options:

A: one unit of research in either BIOL or CHEM culminating in a formal paper and oral defense,  
or

B: one additional unit chosen from CHEM courses numbered 250 or higher.

Math 121 and 122 and two units of physics with lab are prerequisites for Chem 331.

Biochemistry majors may receive certification from the American Chemical Society by taking three additional chemistry courses. See the Chair of the Chemistry Department for details. Biochemistry majors are strongly encouraged to do multiple semesters of research. Faculty with biochemistry research interests include Dr. Crozier, Dr. Johann, Dr. Pysh, Dr. Ramesh, Dr. Sarisky, and Dr. J. Steehler. Students considering graduate study should take additional advanced level courses such as a second semester of physical chemistry, instrumental analysis, or advanced biology courses such as developmental or advanced cell.

## **BIOLOGY**

*Professor Jorgensen, Pysh; Associate Professors Cawley, Crozier, Ramesh; Assistant Professors Collins, Lassiter, Poli, Powers; Visiting Assistant Professors O'Neill and Wise; Teaching Associates Bosch, Thibodeaux*

The Biology Department offers both the B.S. and B.A. degrees.

Students seeking the B.S. degree are required to complete eight and one-half units of Biology coursework: Biology 120, 125, 455 (one-half unit), and six upper division courses (200-level or above) with at least one of the six chosen from each of the four Biology Department curricular core areas: 1) Molecular Biology & Genetics, 2) Cell Biology & Microbiology, 3) Integrative Biology, and 4) Ecology & Evolution (see below). Additionally, B.S. degree candidates must complete Chemistry 222 (Chemistry 111, 112 and 221 are prerequisites), two units of Physics (103/104 or 201/202), and two units of Mathematics/ Statistics

(Statistics 101 or INQ 240 and Mathematics 112 or higher; the Mathematics 121/122 sequence is recommended).

Students seeking the B.A. degree must complete seven and one-half units of Biology coursework: Biology 120, 125, 455 (one-half unit), and five upper division courses (with at least one course chosen from each of the four Biology Department curricular core areas – see below). Additionally, B.A. degree candidates must complete Chemistry 112 (Chemistry 111 is prerequisite), one unit of Physics with laboratory (Physics 101 or the equivalent or 103 or higher), and two units of Mathematics/Statistics (Statistics 101 or INQ-240 and Mathematics 112 or higher).

### **Biology Core Areas**

Core area requirements are intended to ensure students' broad exposure to key areas of modern biology, while allowing significant choice in tailoring their course-of-study to interest and preparation for post-graduate study or work. Students are encouraged to consult Biology Department faculty in determining their course choices and should plan their schedules carefully, paying attention to prerequisite requirements and frequency of course offerings. Please note that most upper division Biology courses are offered on a rotating basis.

The upper-division course component of a student's program of study (six for the B.S. degree; five for the B.A. degree) must satisfy the following requirements:

- a. For either the B.S. or B.A. degree, at least one of these courses must be chosen from each of the four curricular core areas: Genetics & Molecular Biology, Cell Biology & Microbiology, Integrative Biology, and Ecology & Evolution.
- b. The remaining two upper-level courses for the B.S. degree (one for the B.A. degree) may come from any of the four core areas.
- c. At least four of the six for the B.S. degree (three of five for the B.A. degree) must be laboratory courses.
- d. Students seeking either degree must have at least two, 200-level laboratory courses.
- e. At least three of the six for the B.S. degree (two of five for the B.A. degree) must be at the 300-level or higher.
- f. Courses cross-listed in more than one core area may not be used to satisfy the requirement for more than one core area.
- g. Independent Study courses (BIOL 350, 355, 460, 470, 495, 496, 497) and Internship (BIOL 450) are taken in addition to major requirements and may not be counted as part of the upper division course requirement for either the B.S. or B.A. degree.

Core areas and distributions:

#### **A. Molecular Biology & Genetics**

BIOL 315 – Genetics  
BIOL 345 – Special Topics  
BIOL 346 – Special Topics  
BIOL 365 – Plant Anatomy & Physiology  
BIOL 380 – Advanced Genetics  
BIOL 400 – Molecular Biology

#### **B. Cell Biology**

BIOL 210 – Cell Biology  
BIOL 305 – Principles of Physiology  
BIOL 345 – Special Topics  
BIOL 346 – Special Topics  
BIOL 375 – Comparative Animal Physiology  
BIOL 390 – Advanced Cell Biology  
BIOL 420 – Developmental Biology

BIOL 430 – Immunology

**C. Integrative Biology**

BIOL 235 – Microbiology

BIOL 240 – Algae & Fungi

BIOL 265 – Plant Kingdom

BIOL 270 – Invertebrate Biology

BIOL 275 – Vertebrate Biology

BIOL 280 – Animal Biology

BIOL 345 – Special Topics

BIOL 346 – Special Topics

BIOL 365 – Plant Anatomy & Physiology

BIOL 375 – Comparative Animal Physiology

**D. Ecology & Evolution**

BIOL 205 – General Ecology

BIOL 225 - History of Life

BIOL 300 – Aquatic Ecology

BIOL 345 – Special Topics

BIOL 346 – Special Topics

BIOL 360 – Terrestrial Ecology

Biology 345 (Special Topics) can be applied to fulfill core area requirements depending upon the specific nature of a particular course and at the discretion of the Department.

### **Minor In Biology**

A minor in Biology requires six units of Biology coursework: Biology 120 and 125 (Biology 101 or the equivalent may be substituted for one of these with Departmental permission) and four additional courses chosen from at least two of the Biology core areas (listed previously). No more than one unit of Independent Study or Internship may be counted. Courses not listed in the Biology core areas require Departmental approval to be counted toward the minor.

#### **101 Life on Planet Earth**

Please see description under INQ 250. The Intellectual Inquiry Curriculum was implemented beginning fall term, 2009. Students who completed this course in an earlier term should refer to the 2007-2009 academic catalog for the course description.

#### **120 Principles of Biology**

An overview of biological science, focusing on the central role of genetics and its connections to the other major areas of study within biology. The first course in a two-semester introductory sequence for biology majors. (Students intending to major in biology or biochemistry should enroll in this course the Fall semester of their freshman year.) (1)

Lecture: 3hrs/wk; Laboratory: 3hrs/wk.

#### **125 Biodiversity**

An overview of ecology, evolution, and organismal diversity, focusing on the variety of organisms present on our planet and the interactions between these organisms and their environments. The second course in a two-semester introductory sequence for biology majors. (Students intending to major in biology should enroll in this course the Spring semester of their freshman year. Prospective biology majors should enroll in Biology 120 before enrolling in Biology 125.) (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

Prerequisite: Biology 120 or permission.

#### **205 General Ecology**

A study of the interrelationships between organisms and the environment. Emphasis will focus on the physical and biological factors that influence ecosystem functions and the detrimental effects that occur from environment disturbances. (1)

Lecture: 3hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: Biology 125.*

### **210 Cell Biology**

A study of the fundamental processes that occur within eukaryotic cells, focusing on the structures and functions of the organelles, the cell cycle, and cell signaling. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Biology 120 and Chemistry 112 or permission.*

### **225 History of Life**

An overview of current thinking on the origin and progression of life on our planet. The history of evolutionary thought will be traced from before Darwin to the Modern Synthesis. Current scientific information will be considered in a variety of topical areas, including the origin of multi-cellular life, and the paleobiology and evolutionary development of representative organismal groups, including humans. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: BIOL 125 or permission.*

### **230 Human Anatomy and Physiology I**

Structure and function of the human body at the cell and organ system levels, covering general cell structure and function, and the integumentary, skeletal, muscular, and nervous systems. (This class has a strictly enforced registration restriction with preference given to declared Health and Human Performance majors; this course is an elective for Biology majors.) (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 101 or the equivalent or 120.*

### **235 General Microbiology**

The morphology, taxonomy, ecology, and economic importance of representative microorganisms, with emphasis on bacteria. Human health issues such as sexually transmitted diseases and food safety, and plant health issues will be covered. Microbiological aspects of water and soil will also be examined. Emphasis in the laboratory will be placed on proper application of microbiological techniques. (1)

Lecture: 3 hrs/wk.; Laboratory 3 hrs/wk.

*Prerequisite: Biology 120.*

### **240 Algae and Fungi**

Morphology, physiology, and ecology of these organisms will be emphasized including field trips to study them in their natural habitats. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 120 and 125 or permission.*

### **260 Human Anatomy and Physiology II**

Structure and function of the human body at the cell and organ system levels, covering the endocrine, digestive, respiratory, circulatory, excretory, and reproductive systems. (1) (May be used as one of the two upper-level biology electives for the B.S. degree – see Biology core areas section.)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Biology 230*

### **265 The Plant Kingdom**

The evolutionary relationships, life histories, and field studies of mosses, ferns, and vascular plants. Field trips to identify and study local spring wildflowers during the second half of the course. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 120 and 125 or permission.*

### **270 Invertebrate Biology**

A study of the invertebrate animals including phylogenetic relationships among the taxa and focusing on the physiology, embryology, ecology, and behavior of representative forms. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 120 and 125 or permission.*

### **275 Vertebrate Biology**

Identification, morphology, phylogeny, zoogeography, ecological physiology, and behavior of vertebrates. (1)

Lecture 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 120 and 125 or permission.*

### **280 Animal Biology**

A study of the Kingdom Animalia, focusing on phylogeny, taxonomy and structure/function of representative animal types. (1)

Lecture: 3hrs/wk; Laboratory: 3hrs/wk.

*Prerequisite: Biology 120 & 125 or permission.*

### **300 Aquatic Ecology**

Synthesis of biological, chemical, and physical factors and processes in streams and lakes. Field work and laboratory analyses of samples collected. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: One 200-level Biology course.*

### **305 Principles of Physiology**

A study of physiological principles in animals. Particular emphasis will be placed on a consideration of how function at the cellular level is integrated through the organ system levels in a variety of vertebrate animal types, with mammals serving as an important example. (1)

Lecture: 3 hrs/wk.; Lab: 3 hrs/wk.

*Prerequisite: BIOL 210.*

### **315 Genetics**

A study of the principles of Mendelian, population, and molecular genetics. (1)

Lecture: 3 hrs/wk; Laboratory 3hrs/wk.

*Prerequisite: One 200-level Biology course and Chemistry 112.*

### **320 Animal Behavior**

The behavior of representative animals with emphasis on the evolution, adaptive significance, and causation of behavior patterns. The laboratory will emphasize the study of animals in their natural habitats. (Occasionally, early morning or afternoon Saturday field trips will be required.) (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Biology 210.*

### **345 Special Topics in Biology**

Study of a special topic in biology not regularly offered. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Department permission.*

### **346 Special Topics in Biology**

A study of a special topic in biology not regularly offered. This course has a required laboratory component. (1)

Lecture: 3 hrs/wk; Laboratory: 3hrs/wk.

*Prerequisite: Department permission.*

### **350 Student Research**

Problems chosen and carried out under the direction of a member of the departmental staff. (1)

*Prerequisite: Permission.*

Open to majors and minors with permission of the Department.

### **355 Student Research**

Problems chosen and carried out under the direction of a member of the departmental staff. (1/2)

*Prerequisite: Permission.*

Open to majors and minors with permission of the Department.

### **360 Terrestrial Ecology**

Plant and animal communities in selected habitats, and the environmental factors important in community formation. (Occasionally, early morning or afternoon Saturday field trips will be required.) (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: One 200-level Biology course.*

### **365 Plant Anatomy and Physiology**

Cellular, tissue, and organ anatomy of conifers and flowering plants will be studied in detail leading to advanced work in tissue culture, hormonal and light influenced growth responses. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Biology 210 or 215.*

### **375 Comparative Animal Physiology**

A study of function at the organ system and cellular levels in a variety of animal forms. Emphasis will be placed on comparing how different animals solve similar physiological problems with particular reference to physiological adaptation to different habitats. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Biology 290.*

### **380 Advanced Genetics**

A study of the eukaryotic genome with particular reference to chromosome structure and function. (1)

Lecture: 3 hrs/wk.; Laboratory 3 hrs/wk.

*Prerequisite: Biology 315.*

### **390 Advanced Cell Biology**

The genetics, biochemistry and physiology of eukaryotic and prokaryotic cells at the molecular level. Topics include control of gene expression, protein synthesis, signal transduction and membrane physiology. The laboratory makes extensive use of current techniques in cellular and molecular biology, and places emphasis on student-designed experiments. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 210 and Chemistry 221.*

### **400 Molecular Biology**

A detailed analysis of information flow from DNA to RNA to protein, with emphasis on both prokaryotic and eukaryotic gene regulation. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 210 or 215 and Biology 390.*

### **420 Developmental Biology**

An examination of embryonic development at the molecular and cellular levels. Topics will include genetic control of developmental processes, cell-cell signaling, and the molecular basis of differentiation and pattern formation. Examples from vertebrate, invertebrate, and plant systems will be used. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Biology 210 or 215.*

### **430 Immunology**



An advanced course for students with a strong background in cell biology. Principles of vertebrate immune systems with emphasis on the cellular and molecular basis of immune responses. Regular readings will be assigned from the current primary scientific literature. Includes topics required for NAACLS transcripts acceptance. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Biology 210.*

#### **450 Internship**

Work experience in a field of professional biology under the guidance of a member of the biology faculty. (May not be counted as one of the required courses for the Biology major.) (1)

*Prerequisite: One 200-level Biology course and permission.*

#### **455 Seminar**

A semester-long inquiry into a specialized topic in one of six general areas: Cell Biology, Genetics, Animal Biology, Plant Biology, Evolution, or Ecology. Using the primary literature principally, students will summarize the current knowledge in an area through both oral, poster, and written presentations. Special emphasis will be placed on analysis of the application of specific techniques and methodologies in contemporary biological investigations. (1/2)

Lecture: 11/2 hrs/wk.

*Prerequisites: Junior or senior standing.*

#### **460 Senior Research**

Problems chosen and carried out under the direction of a member of the departmental faculty. (Open to BS majors with permission of the Department; must be followed by Biology 470, Senior Thesis.) (1)

*Prerequisites: Senior Standing.*

#### **470 Senior Thesis**

Preparation of a written summary of a senior research project carried out under the supervision of a Department faculty member. An oral presentation will be required. (1)

*Prerequisite: Senior Standing.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance. Prerequisite: To qualify for consideration to receive honors in the major, a student, in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)

*Prerequisite: Senior Standing.*

## **BUSINESS ADMINISTRATION**

*Professors Baker, L. Lynch, McCart (Chair), Nazemi; Associate Professors Gibbs, Hagadorn, Velazquez; Assistant Professors Galluch, Lyon; Teaching Associates Clifton, Harris, Hutkin (Coordinator), Shaff, Smith; Lecturers Alexander, Kearns, Mulder.*

The degree of Bachelor of Business Administration requires successful completion of 13 units in Business Administration and Economics: Business Administration 215, 225, 227, 233, 248, 254, 258, 342, 348, and 499; Economics 121 and 122; and one additional unit in business administration or economics numbered 200-level or above (excluding internship). In order to be admitted to the B.B.A. program, students must earn a grade of "C" or better in MATH 111 (or approved MATH equivalent), STAT 101 or INQ 240, ECON 121, ECON 122, and BUAD 215, or receive permission from the BUAD Admissions Committee. Students should contact Dr. Kevin Baker, chair of the Admissions Committee, with questions regarding these requirements. Since upper-level courses are based on prerequisites, students are urged to plan their programs carefully with their advisors. Students should complete, or be currently enrolled in, Business

Administration 215, 225, 227, 258, and Economics 121 and 122, before the end of their sophomore year. Note that Business Administration 248 and 348 have Mathematics 111 and Statistics 101 or INQ 240 as prerequisites, in addition to the Business Administration 215 prerequisite. Note that Economics 120 cannot be used for the B.B.A. program.

### **Concentration in Accounting**

A concentration in accounting is achieved by completion of the following program with a cumulative grade point average of at least 2.0: Business Administration 315, 325, 335, 345, 415 and 425. At least three of these courses must be taken at Roanoke College. Admission to the concentration requires an overall grade point average of 2.0 and a 2.0 grade point average in all courses that are prerequisites to concentration courses.

### **Concentration in Business Information Systems**

A concentration in Business Information Systems is achieved by completion of the following courses and their pre-requisites: BUAD 258, 328, 338,368, 438 and one from CPSC 310,340, 416 or BUAD 416 – Internship. Admission to the concentration requires an overall grade point average of 2.0 and a 2.0 grade point average in all courses that are pre-requisites to concentration courses.

### **Concentration in Business Leadership**

A concentration in business leadership is achieved by the completion of the following program with a cumulative grade point average of 2.0 or greater. Business Administration 264\*, 364, 374, and 464; plus two courses selected from Business 354, Communications 220 or Communications 317, Philosophy 222, Political Science 301, Psychology 325 or Sociology 336. Admission to the concentration requires a minimum overall grade point average of 2.0 and a minimum 2.0 grade point average in all courses that are prerequisites to the concentration. This Business concentration is open to all majors and the final project has the potential to be adapted to other disciplines.

\*IL 277 Basic Leadership Practices may substitute for Business 264 (students must select from either IL 277 or Business 264 and cannot take both for credit).

### **Concentration in Finance**

A concentration in finance is achieved by completion of the following program with a cumulative grade point average of at least 2.0: Economics 232, Business Administration 242, 342, 442 plus three courses selected from Economics 242, 247, Business Administration 142, 315, 322 (1/2 unit, repeated), 341, 345, and 416. Admission to the concentration requires an overall grade point average of 2.0 and a 2.0 grade point average in all courses that are prerequisites to concentration courses.

### **Concentration in Global Business**

A concentration in global business is achieved by completion of the following program with a cumulative grade point average of at least a 2.0: Business Administration 211, 215, 233, 333; Economics 121, 122, 247; one from Economics 237 or Political Science 333; one from Political Science 231, 232, Sociology 335, or an appropriate Business Administration 406 or 416, as approved by the department chair; one from travel courses in Foreign Language or an appropriate commercial language or culture course in Foreign Language. Admission to the concentration requires an overall grade point average of 2.0 and a 2.0 grade point average in all courses that are prerequisites to concentration courses.

### **Concentration in Health Care Administration**

The Health Care Administration concentration is designed primarily for students interested in Hospital or Health Care Administration. A major in Health Care Administration is not offered at Roanoke College. It

is likely that most of these students will pursue (eventually or immediately after graduation) a master's degree in Hospital/Health Care Administration. Ultimately, they would be likely to work for a hospital, health maintenance organization, or public or private medical facility.

A cumulative grade point average of at least 2.0 in all prerequisite course work is required for admission to the Health Care Administration concentration. In addition, the student must earn a 2.0 cumulative grade point average in all course work required to complete the concentration. The concentration is achieved by completion of the following courses Business Administration 215, 254, 258. Economics 120 or 121 & 122, 227; Sociology/Philosophy 223, Sociology 323; In addition, students must complete one unit from Business Administration 354 or Psychology 250 or Business Administration 416 or Sociology 416.

### **Concentration in Human Resource Management**

A concentration in Human Resource Management is achieved by completion of the following program with a cumulative grade point average of at least 2.0: Business Administration 244, 254 and 354, plus four courses selected from Business Administration 364, 416, Communications 317, Economics 267, Political Science 301, Psychology 250 and 300, and Sociology 336.

Admission requires an overall grade point average of 2.0, and a 2.0 grade point average in all courses that are prerequisites to concentration courses.

### **Concentration in Marketing**

A concentration in marketing is achieved by completion of the following program with a cumulative grade point average of at least 2.0: Business Administration 233, 343, 433, and two courses selected from Business Administration 333, 353, 363 or an approved marketing internship, independent study, special topics course or appropriate IL course.

Admission to the concentration requires an overall grade point average of 2.0 and a 2.0 grade point average in all courses that are prerequisites to concentration courses. Note that Business Administration 233, 258 and Statistics 101 or INQ 240 are prerequisites for Business Administration 433.

#### **142 Personal Finance**

This course develops a comprehensive understanding of everyday financial matters such as banking, credit, home finances, planning, investing, and taxes. (1)

Lecture: 3 hrs/wk.

#### **210 Entrepreneurship**

A survey of issues involved in starting and owning a small business including forms of ownership, acquisition of financing, marketing and operations concepts, culminating in the preparation of a simplified business plan. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 215.*

#### **211 Introduction to Global Management**

An introduction to the organizational, legal, economic, human and cultural aspects of conducting and managing business internationally. (1)

Lecture: 3 hrs/wk.

#### **215 Accounting Principles I**

An introduction to the field of accounting and to the development of a broad understanding and use of accounting information. PC applications are utilized. (1)

Lecture: 3 hrs/wk.

#### **225 Accounting Principles II**

Continuation of broad understanding of how accounting principles, accounting practices, and financial data assist decision makers. Topics include corporations, analysis of accounting information, and managerial accounting, including cost accounting, planning, and control. PC applications are utilized. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 215.*

### **227 Business Law**

An introductory survey of the basic transactional legal principles needed in business, including a summary of the judicial system, legal organizations, contracts, torts, administrative regulation, property rights, selected articles of the Uniform Commercial Code, creditor's rights, bankruptcy, and employment laws.(1)

Lecture: 3 hrs/wk.

### **233 Marketing Management**

Principles, practices, and basic theoretical concepts in the field of marketing. Special attention will be given to sustainable business activities. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 215 and either Economics 120 or 121.*

### **242 Investments**

An introduction to security analysis, principles, and problems of investments for individuals and firms; management of the securities by risk and purpose of investors. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 225 and Economics 121 and 122, or permission.*

### **244 Labor Relations**

Evolution of unions; organizations and role of labor and management in collective bargaining; labor legislation; contract administration. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Economics 120 or 121 or 122 or permission.*

### **248 Quantitative Methods**

The use of quantitative techniques in decision making for business management. Substantial PC applications are utilized. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Mathematics 111, Statistics 101 or INQ 240, and Business Administration 215.*

### **254 Organizational Behavior and Management**

An introductory examination of theoretical principles and practical applications related to managing and leading individuals and groups in the work setting. (1)

Lecture: 3 hrs/wk.

### **258 Information Systems**

This course explores the fundamental concepts of information systems in modern organizations. The course provides intensive preparation in the most useful applications of computers in business. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 215 and either Mathematics 111 or permission.*

### **260 Topics in Business Administration**

Selected topics involving problems and controversies of a social and political nature. (1)

Lecture: 3 hrs/wk.

### **264 Foundations of Leadership**

A broad theoretical and practical overview of leadership concepts and principles. Topics will include, but are not limited to traits of effective leaders, ethics, team development, leadership theory, strategic leadership and conflict resolution. Students will be required to develop and present an original community-based leadership project proposal. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 254 or Psychology 250.*

### **315 Intermediate Accounting I**

This course examines the political environment and conceptual foundations, basic mechanics, and fundamental topics of financial reporting. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 225.*

### **322 Student-Managed Fund**

The participants in this class will manage a portion of the College's general endowment fund by actively managing a portfolio under the supervision of a faculty member. The fund will be continuously managed, with the course portion being offered each (and every) semester. Students earn 1/2 unit per semester. A maximum of two units can be earned toward graduation with only one unit counting toward the Finance Concentration. Offered on a pass-fail basis. (1/2)

Lecture: 3 hrs/wk.

*Prerequisites: Economics 122 and Business Administration 225.*

### **325 Intermediate Accounting II**

Continuation of Business Administration 315. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 315 or permission.*

### **328 Application Development in Business**

A comprehensive overview of computer applications development in business using application programming and application development tools. This course will serve as an elective within the Business Administration major and as a requirement in the Business Information Systems concentration.

(1)

Lecture: 3 hrs/wk.

*Pre-requisite: BUAD 258.*

### **333 Global Marketing**

This course introduces the students to political, cultural, and economic factors influencing the global marketing of goods and services. The students will learn about development of international products, pricing strategies, promotion techniques, and channels of distribution. (1)

Lecture/Case Study: 3 hrs/wk.

*Prerequisite: Business Administration 233.*

### **335 Cost Accounting**

The measurement of product cost arising from material procurement and use, employment of labor services, and overhead factors in job order and process settings. Budgeting, standard costs, and other tools for planning and control. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 225 and 258.*

### **338 e-Business**

Comprehensive coverage of electronic business and electronic transactions to include electronic marketing and retailing, electronic procurement and payment, cyber security, on-line auction and shops, and web technologies for virtual communities in a global marketplace. (1)

Lecture: 2 hrs/wk.; Lab: 1 hr/wk.

*Prerequisite: BUAD 258.*

### **341 Commercial Banking**

Designed to provide an understanding of bank operations and management, as well as issues and problems at the national and international level. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Economics 121 and 122.*

### **342 Corporate Finance**

The principles of asset management, financial structure, and types of securities and their characteristics.

(1)

Lecture: 3 hrs/wk.

*Prerequisites: Economics 121 and 122; Business Administration 225 and 258; declared Business major or permission.*

### **343 Buyer Behavior**

This course provides a comprehensive overview of the theories related to buyer behavior. Students will learn how to apply these theories in marketing and retailing contexts. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 233.*

### **345 Income Taxation**

Examination of the present federal tax law and development of the accounting principles and procedures involved in the preparation of tax returns. PC applications are utilized. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 215 or permission.*

### **348 Production and Operations Management**

Basic principles and problems of organizing and operating business facilities including functions, process, responsibilities, and techniques. Substantial computer applications. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Mathematics 111, Statistics 101 or INQ 240, Business Administration 215; declared Business major or permission.*

### **353 Sales and Sales Management**

An in-depth study of the steps associated with the personal selling process as well as the techniques required to motivate and manage a high performance sales force effectively. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 233.*

### **354 Human Resource Management**

The principles of employee selection, job design, performance appraisal, compensation, training and development, career management, safety and health, and labor relations. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 254 or permission.*

### **363 Promotion Management**

This course provides a comprehensive overview of the principles and problems faced in the area of promotion management. Students will gain understanding and practice in the development of an advertising campaign; the use of sales promotion tools; and issues in regulation, ethics, and cultural impact of those activities. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 343 or permission*

### **364 Team Dynamics**

An examination of the dynamics of team development and teamwork. Topics covered in this course will include, but are not limited to group theory, mission and goal development, team development, conflict

management, problem solving and team leadership. Students will be required to demonstrate competency in team leadership through the development of a class project in team dynamics. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 254 or Psychology 250.*

### **368 Decision Support and Intelligent Systems**

A comprehensive study of managerial decision making and the use of such tools as Data Base Management, Decision Support, and Intelligent Systems in solving business and management problems. This course will serve as an elective within the Business Administration major and as a requirement in the Business Information Systems concentration. (1)

Lecture: 3 hrs/wk.

*Pre-requisites: BUAD 258 and INQ 240.*

### **374 Conflict Management in the Workplace**

An examination of the nature, consequences and best practice guidelines for the management and resolution of workplace conflict. Topics covered in this course will include, but are not limited to power and conflict, sources of conflict, types of conflict, harnessing the power of conflict, arbitration and mediation, communication and guidelines to managing conflict. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 264.*

### **395, 396 Henry H. Fowler Public Policy Seminar**

A seminar taught with a scholar-statesperson that deals with a policy issue of public significance. (Made possible by the Henry H. Fowler Endowment. Open to selected students with Department permission.) (1, 1/2)

### **405, 406, 407 Independent Study and Research**

A program of intensive study in Business Administration carried out under the direction of a member of the Departmental staff. (Enrollment with the approval of the Department.) (1/2, 1, 1/2)

### **415 Auditing**

A course covering the principles employed in the conduct of a financial statement audit. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 315.*

### **416 Internship**

Work experience in private or public sector, utilizing analytical tools, and including a student project. (1)

*Prerequisite: Business Administration 258 and permission of the Department.*

### **425 Advanced Accounting**

A course focusing on the consolidation of financial statements. In addition, a brief introduction to international, governmental and nonprofit accounting is covered. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Business Administration 315.*

### **433 Marketing Research**

A course providing students with the skills needed to define a research situation, construct the research model, collect and analyze data, generate and test the response or solution, and integrate the steps into a coherent project. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 233, 258, and Statistics 101 or INQ 240.*

### **438 Systems Analysis and Design**

A comprehensive overview of the development of information systems in a business environment. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 258 and permission.*

#### **442 Advanced Financial Management**

An in-depth analysis of financial theory, principles, and policies used in managing the firm's capital structure. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 242 and 342 and Economics 232 or permission.*

#### **464 Advanced Leadership**

An advanced analysis of leadership topics including an applied experience in leadership practice. A special emphasis will be placed on the ethics of leadership. Students enrolled in this course will be required to propose and execute an actual community oriented project within the timeframe of the semester. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Business Administration 264, and either Business Administration 364 or 374.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student, in his/her senior year or in the Summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

#### **499 Business Policy**

The capstone course of the Business Administration curriculum. The students will use Strategic Management as the framework to integrate and apply the knowledge acquired from all the coursework in the Business Administration major. The course utilizes lecture, readings, case methodology, simulations, and a major project of starting a business entity. (1)

Lecture: 3 hrs/wk; Lab 3 hrs/wk.

*Prerequisites: Business Administration 227, 233, 248, 254, 342, 348 and senior major status.*

## **CHEMISTRY**

*Professors Hollis, Huddle, G. Steehler, J. Steehler; Associate Professors V. Miller; Assistant Professors Anderson, Johann, Sarisky; Visiting Assistant Professors Livingston, Monceaux; Teaching Associate P. Turpin*

Three major programs are offered by the Department: The B.A. in Chemistry, the B.S. in Chemistry, and the B.S. in Biochemistry.

The B.A. requires 9.5 units of chemistry, including Chemistry 110 or 111, 112, 221, 222, 331, 332, 350, 280 (1/2), - and two additional CHEM courses numbered 250 or higher. Math 121 and 122 and two units of physics with lab are prerequisites for Chemistry 331, which is required for all chemistry majors.

The B.S. in Chemistry requires 12.5 units in chemistry, including Chemistry 110 or 111, 112, 221, 222, 331, 332, 341, 350, 280 (1/2), one unit of research at the 400-level, one unit of another advanced course (342, 420, 430, 460, or 499), and one additional CHEM course numbered 250 or higher. Math 121 and 122 and two units of physics with lab are prerequisites for Chemistry 331, which is required for all chemistry majors. Students who complete this program are certified by the American Chemical Society.

The B.S. in Biochemistry requires 12.5 units in chemistry and biology, including Chemistry 110 or 111, 112, 221, 222, 331, 341, 342, 280 (1/2), Biology 120, 210, 315, and either 380 or 400. Students must also complete one of these two options: either one unit of research in either CHEM or BIOL that culminating in a formal paper and oral defense, or one additional unit of CHEM numbered 250 or higher. Math 121 and 122 and two units of physics with lab are prerequisites for Chemistry 331, which is required for all chemistry and biochemistry majors. Biochemistry majors may receive certification from the American Chemical Society by taking three additional chemistry courses. See the Chair of the Chemistry Department for details.



Chemistry and Biochemistry majors are strongly encouraged to do research; students wishing to strengthen their programs of study are advised to take advanced level courses in chemistry, mathematics, or other sciences.

### **Minor in Chemistry**

The minor in chemistry requires six units in chemistry, including Chemistry 110 or 111, 112, 221, and any other three chemistry units at or above the 200 level which may apply towards a major in Chemistry.

#### **101 The Chemical Science**

Please see description under INQ 250. The Intellectual Inquiry Curriculum was implemented beginning fall term, 2009. Students who completed this course in an earlier term should refer to the 2007-2009 academic catalog for the course description.

#### **110 General Chemistry: Modern Chemical Analysis**

Integrated lecture/laboratory exploring the use of chemical analysis techniques in field studies and traditional research. A variety of classical and instrumental methods will be studied and applied to one or more research or community service projects. The methods will be linked to concepts in general chemistry. This course is intended for students with excellent prior chemistry experience that makes placement in CHEM 111 inappropriate. (1)

Lecture/Laboratory: 6 hrs/wk.

*Prerequisite: Permission. Not available to students who have already completed CHEM 221 or higher.*

#### **111, 112 General Chemistry I and II**

The introductory course in chemistry. (Required for all chemistry, biochemistry, pre-medical, pre-dental, pharmacy, and paramedical students. Recommended for all science majors.) (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

#### **140 Nutritional Chemistry**

A study of the chemical nature of the basic classes of foods, their functions, and their metabolism. Also discussed will be the chemistry of food additives, diet, food processing and nutritional deficiencies. (May not be taken for major credit.) (1)

Lecture: 3 hrs/wk.

#### **200 Laboratory Safety**

An exploration of all aspects of safety in the laboratory including hazards and regulations associated with chemicals, equipment, and procedures, waste disposal, PPE, and laboratory design. Students will analyze safety requirements in their intended post graduation workplace: high school classroom, industrial employment, or graduate research laboratory. (0.50)

Lecture: 1.5 hrs/wk.

*Pre-requisite: CHEM 221 and permission.*

#### **205 Research Experience**

A research project in chemistry or biochemistry. May not be used to satisfy the BA Chemistry elective or BS chemistry research requirement. May be repeated for credit. (1/2)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the Department.*

#### **221, 222 Organic Chemistry I and II**

A study of the chemistry of the compounds of carbon. Fundamental concepts of chemical bonding are employed to develop chemical models and to correlate structure-property relationships within and among the various classes of carbon compounds. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Chemistry 112.*

### **260 Descriptive Inorganic Chemistry**

A study of the elements and their compounds. The properties of these substances, spanning the entire periodic table, will be described and explained through the connections to chemical theories and concepts. The occurrence, isolation, uses, and compounds of elements will be explored. Biochemical and industrial applications will be considered. (1)

Lecture: 3 hr/wk; Laboratory: 3 hr/wk.

*Prerequisite: CHEM 112.*

### **270 Environmental Chemistry**

A study of the sources, reactions, transport and fate of chemicals in air, water, and soil environments as well as the effects of these compounds on human health and the natural environment. The chemistry of both natural and anthropogenic processes will be examined. (1)

Lecture: 3 hr/wk; Laboratory: 3 hr/wk.

*Prerequisite: CHEM 112.*

### **280 Sophomore Seminar: Communicating Chemistry**

Scientific communication skills: Literature searching skills, written and oral scientific presentation skills. Introduction to research methods: Planning and organizing a research project, data analysis techniques. (1/2)

Lecture: 1 1/2 hrs/wk.

*Prerequisite: Chemistry 221.*

### **299 Special Topics in Chemistry**

The study of a special topic in chemistry that is not normally offered. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Permission.*

### **331, 332 Physical Chemistry I & II**

The physical aspects of chemical phenomena, including the properties of solids, liquids, gases and solutions; thermodynamics; kinetics; electrochemistry; and elementary quantum theory. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Chemistry 112, Math 122, and two units of physics.*

### **340 Pharmaceutical Chemistry**

A study of the chemistry of pharmaceuticals, with emphasis on the molecular-level interactions between drugs and the body. Drug metabolism, drug-receptor interactions, and drug development are explored with case studies including cancer drugs, opiates, and antibiotics. (1)

Lecture: 3 hr/wk.

*Prerequisite: CHEM 222.*

### **341, 342 Biochemistry I & II**

A study of the major macromolecules found in biological systems with an emphasis on structure/function relationships, as well as the role of each class in central and secondary metabolic processes. (1, 1)

Lecture: 3 hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: Chemistry 222.*

### **350 Instrumental Analysis**

The theory and practice of the principal methods of instrumental analysis. Areas include electrochemistry, chromatography (GC and LC), spectroscopic methods (UV-Vis, IR, NMR), mass spectrometry, X-ray analysis, and atomic absorption. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Chemistry 331.*

(Offered in 2011-2012 and alternate years.)

### **399 Special Topics in Chemistry**

The study of a special topic in chemistry that is not normally offered. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Permission.*

### **405, 406, 407 Independent Study and Research**

A research project in chemistry or biochemistry that results in the production of a scholarly paper and an oral presentation. May be repeated for credit. (1/2, 1, 1/2)

*Prerequisite: Permission of the Department.*

### **416 Internship**

Practical experience in a setting where chemistry is applied, under the guidance of a member of the chemistry department faculty. (1)

*Prerequisite: Junior or senior standing and permission of Department.*

### **420 Advanced Organic Chemistry**

An in-depth study of selected topics in organic chemistry, with particular emphasis on physical organic chemistry. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Chemistry 222 and 331.*

(Offered in alternate years.)

### **430 Advanced Physical Chemistry**

The relations of atomic and molecular theory to the development of modern chemical bonding concepts. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Chemistry 332.*

### **460 Advanced Inorganic Chemistry**

Advanced topics in inorganic chemistry with an emphasis on bonding and structure. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Chemistry 222 and 331.*

(Offered in alternate years.)

### **480 Senior Seminar: Chemistry Capstone**

Advanced scientific presentation skills. Advanced literature searching and analysis techniques. Scientific professionalism, including professional meetings and career planning. Integrative review of all areas of chemistry. (1/2)

Lecture: 1 1/2 hrs/wk.

*Prerequisite: Chemistry 280 and senior standing.*

### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major a student in his/her senior year or in the Summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and the Department. A minimum GPA of 3.4 in the major is required. (1/2, 1, 1/2)*

### **499 Special Topics in Chemistry**

The study of a special topic in chemistry that is not normally offered. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Permission.*

## CHINESE

A major in Chinese is not offered at Roanoke College.

### **101, 102 Elementary Chinese I, II**

A study of the fundamentals of Chinese with emphasis on pronunciation and aural comprehension. Includes oral and written work, cultural material, and selected readings. (1, 1)

Lecture: 3hrs/wk

Prerequisite: Chinese 101, or its equivalent, is a prerequisite for 102.

### **201 Intermediate Chinese I**

A review of the essentials of Chinese grammar with the introduction of advanced structures, continued development of essential language skills, and further acquisition of vocabulary. An emphasis will be placed on cultural issues and on conversational skills to handle situations of everyday life and to increase the range of personal expression; inclusion of cultural materials. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: CHIN 102*

### **202 Intermediate Chinese II**

A continuation of the advancement of Chinese grammar with the introduction of advanced structures, continued development of essential language skills, and further acquisition of vocabulary. An emphasis will be placed on cultural issues and on conversational skills to handle situations of everyday life and to increase the range of personal expression; inclusion of cultural materials. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: CHIN 201*

## CHRISTIAN STUDIES

*Professors Berenson, Hinlicky, McDermott, Wisnefske, Zorn; Senior Lecturer Benne; Lecturers Henrickson, Kelly*

The Christian Studies major focuses on the Christian tradition, its history, the development of its thought, and its transmission. It is designed to prepare students for seminary, graduate studies, and other church vocations. A major in Christian Studies requires the completion of 12 units (at least one of which must be non-Christian\*) These include:

### **Surveys (none required, and only one may count toward the major)**

RELG 102	Christian Faith and Life
RELG 103*	The Jewish Tradition
RELG 104*	The World of Islam
RELG 105	Socrates, Jesus, and the Buddha
RELG 130*	Living Religions of the World
PHIL 101	Philosophical Inquiry

### **Scripture (at least two)**

RELG 201	Israelite Patriarchs, Prophets, Princes, and Priests
RELG 202	New Testaments Christianities
RELG 215	The Life and Teachings of Jesus
RELG 216	Pauline Christianity
RELG 217*	Topics in Israelite and Jewish Religion
RELG 290	Feminist Readings of the Bible

**History (at least two)**

RELG 210	The Development of Christianity
RELG 211*	Religions of the Hellenistic World
RELG 212	The Reformation (cross-listed as HIST 231)
RELG 214	Religion in America
RELG 246	The Holocaust (cross-listed as HIST 246)
RELG 250	New Religions in America
RELG 261	History of World Christianity I: 325-1500
RELG 262	History of World Christianity II: 1500-2000

**Theology (at least two)**

RELG 220	Christian Ethics
RELG 230	Introduction to the Theology of Martin Luther
RELG 231	Religion, Philosophy and Science
RELG 270	Explorations in Religion and Society
RELG 280	History of Christian Thought

**Advanced (at least two)**

RELG 312	Topics in New Testament and Early Christianity
RELG 317	Systematic Theology
RELG 320	The Theology of Jonathan Edwards
RELG 325	Modern Theology
RELG 330*	Christianity and the World Religions

**Philosophy (at least two)**

PHIL 213*	Religions and Philosophies of India or
PHIL 218*	Religions and Philosophies of China
PHIL 221	Faith and Philosophy
PHIL 251	Early Western Philosophy
PHIL 252	Modern Western Philosophy
PHIL 260	Selected Topics in Philosophy
PHIL 265	American Philosophy
PHIL 301	Plato
PHIL 310	Kant's Critical Philosophy
PHIL 315	Hegel
PHIL 321	Topics in Philosophy of Religion
PHIL 320	Nietzsche
PHIL 325	Heidegger
PHIL 340	Topics in Contemporary European Philosophy

**Senior Thesis (one unit)**

410, 411, 412 (1/2, 1, 1/2) or

495, 496, 497 (1/2, 1, 1/2)

POLI 342, 343, SOCI 327, or some IL courses may be considered electives with approval of the department.

**Minor in Christian Studies**

A minor in Christian Studies requires the completion of seven units. These include:

Surveys (none required, and only one may count toward the minor)

RELG 102, 105, 130; PHIL 101, 251, 252

Scripture (at least one)

RELG 201, 202, 215, 216, 217, 290

History and Theology (at least two)

RELG 210, 211, 212, 214, 220, 230, 246, 250, 261, 262, 270, 280

Advanced (at least one)

RELG 312, 317, 320, 325, 330

Other units from among those listed above (with no more than one survey course) to meet the seven units required for the minor.

POLI 342, SOCI 327 and some IL courses may be considered electives with the approval of the Department.

## **CLASSICS AND THE ANCIENT MEDITERRANEAN WORLD**

*Coordinator: Dr. Jennifer K. Berenson*

Study of the Classics and the Ancient Mediterranean World encompasses the cultures of the Ancient Near East (e.g., Assyria, Egypt, and Persia) and of the Classical world (i.e., Greece and Rome). Students from any major may earn a concentration in Classics and the Ancient Mediterranean World by successfully completing (with a cumulative grade point average of at least 2.0) at least six units. Of these units, two must be in the same ancient language (Greek or Latin). A third unit of an ancient language may be counted toward the concentration with the approval of the concentration coordinator. The remaining courses offered for the concentration must come from at least two different disciplines. In addition, no more than three courses from a student's major may apply to the concentration. Interested students should contact the concentration coordinators as soon as possible for help in identifying additional appropriate courses available on campus (including special topics and IL courses) or through overseas studies programs.

GREK 101, 102	Elementary Ancient Greek I, II
LANG 101, 102	Elementary Latin I, II
ARTH 146	Survey of Art History I
ARTH 226	Greek and Roman Art
HIST 125	World History I
HIST 290	Special Studies
HIST 310	Issues in Ancient History
HIST 400	Research Seminar in Ancient History
PHIL 251	Early Western Philosophy
PHIL 260	Selected Topics in Philosophy (as appropriate)
PHIL 301	Plato
RELG 202	New Testament Christianities
RELG 210	Early Christian Conflicts and Community Life
RELG 211	Hellenistic Cults, Magic, and Mystery Religions
ENGL 220	Special Topics (as appropriate)
ENGL 260	World Literature (as appropriate)
IL 177	Cultural Kinesis: Greece and the Ancient Olympics
IL 277	Roman Philosophy

## CO-CURRICULAR LEARNING AND SERVICE

(This is required only for the Centers of Distinction Curriculum. This curriculum applies to freshman entering prior to fall, 2009 and to transfers entering prior to fall, 2011.)

*Dr. Gail Steehler, Co-Curricular Learning and Service Director*

These courses encourage individual development through involvement in campus activities and service in the community and facilitate a strong working relationship between the student and the academic advisor.

### **101, 102 Co-Curricular Learning and Service I, II**

A course for all new freshmen and transfer students designed to connect students to the College and to promote involvement in community service and co-curricular activities. Students will identify and pursue individual learning goals. Students must complete 15 hours of co-curricular and service activities each semester, and submit written reflections on their activities. (1/8, 1/8)

Lecture: 1 hr/wk.

## COMMUNICATIONS

*Professors Kuchar, A. Turpin; Associate Professors Carter, Cooper; Teaching Associate D. Selby; Senior Lecturer Fishwick*

Students may earn the concentration in communications by completing six units:

### **I. Required**

COMM 101 Introduction to Communication Studies

### **II. Two 200-level courses from:**

COMM 202 Mass Communications

COMM 220 Public Speaking

COMM 260 Interpersonal Communication

### **III. Three 300-400 level courses from:**

COMM 301 Special Topics

COMM 317 Professional Communication

COMM 319 Journalism

COMM 330 Small Group Communication

COMM 360 Studies in Intercultural Communication

COMM 405,406, 407 Independent Study

COMM 416 Internship

Students interested in pursuing the concentration in communications are encouraged to complete Statistics 101 or INQ 240 as part of their Mathematical and Scientific Reasoning requirements.

### **101 Introduction to Communication Studies**

Introduction to oral communication and communication theory. Course includes study of various communication models and situations and the processes and techniques that function within them. It also examines cultural, symbolic, and perceptual variants and their effects on the communications process. (1)

Lecture: 3 hrs/wk.

### **202 Mass Communication**

A survey of the theories, processes, effects, and media of mass communication. The course will focus on issues of concern principally to the mass media within the United States, but issues of globalization will be addressed.(1)

Lecture: 3 hrs/wk.

*Prerequisite: Communications 101.*

### **220 Public Speaking**

Study of voice, production, and management in various forms of public address. (1)

Lecture: 3 hrs/wk.

*Prerequisite: General Studies 102.*

### **260 Interpersonal Communication**

An introduction to issues in interpersonal communication, examined from the perspective of communication competence. Using scientific concepts and theories, students will be asked to become critics of everyday conversation. Students will also use theoretical principles to improve personal effectiveness, appropriateness, and adaptability in conversing with others. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Communications 101.*

### **301 Special Topics**

A concentrated study of a topic or issue related to the field of communications. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Communications course.*

### **311 Video Field Production**

The study and practice of the fundamentals of professional videography. Students will receive instruction in practical applications in the areas of videography, editing, production, and media literacy. (1)

Lecture: 3 hrs/wk.

(Cross-listed with THEA 311.)

*Prerequisite: Any Communication 200-level course or permission.*

### **317 Professional Communication**

The study and practice of communication theories, concepts, and skills as they apply to business and professional settings including interpersonal and group dynamics, written communication, business and professional presentations and meeting management skills. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Communications 220.*

### **319 Journalism**

A practical introduction to journalism, with special emphasis on reporting skills and writing newspaper news and features, broadcast news, and public relations products. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Communications 202.*

### **330 Small Group Communication**

Introduction to and practice in the structured small group, with primary emphasis on preparation for, analysis of, and participation in problem-solving oriented groups. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Communications 260.*

### **360 Studies in Intercultural Communication**

An examination of major issues related to intercultural and cross-cultural communication. The course will explore those communication issues in particular cultures both within and beyond the United States. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Communications 260.*

### **405, 406, 407 Independent Study**

Supervised reading and research of a specific subject within media or communication studies resulting in a written report. (1/2, 1, 1/2)

*Prerequisites: One 300-level Communications course.*



### **416 Internship**

Experience in a field of applied communications (for example, newspaper, radio, television), under supervision from the agency involved and the course instructor. (1)

Laboratory: 10 hrs/wk.

*Prerequisite: One 200-level Communications course and permission.*

## **COMMUNITY RESEARCH**

*Professor Wilson, Director*

The Center for Community Research involves faculty and students in various research projects. A major in community research is not offered at Roanoke College.

### **240 Public Opinion Polling**

Supervised participation in a large scale survey research project. Course includes interviewing, data analysis, and report writing. (1) (Cross-listed as Political Science 240)

*Prerequisite: Permission.*

## **COMPUTER SCIENCE**

*Professors Bloss, Ingram (Coordinator), Shende; Assistant Professor Bouchard; Lecturer K. Johnson*

A Bachelor of Science degree with a major in computer science requires the satisfactory completion of 12 units in the areas of computer science, mathematics, and statistics to include Computer Science 170, 220, 270, 370, 390, 425, 430; Mathematics 201; Statistics 202; and three additional units from computer science courses at or above the 300 level (one of these units may be Math 306 or Math 361). Computer Science 120 is a prerequisite for the computer science courses, and Mathematics 121 and 122 are prerequisites for the statistics and mathematics courses.

### **Minor in Computer Science**

A minor in Computer Science requires six units: Computer Science 120, 170, 220, 270, and two additional units of computer science at or above the 300 level.

#### **101 Introduction to Computers**

Basic concepts underlying computers with emphasis on algorithms, logic, and information representation. Hands-on experience programming and using spreadsheets. (May not be taken if credit has been received for Computer Science 120 or a computer science version of INQ 241.) (1)

Lecture: 3 hrs/wk.

#### **120 Fundamentals of Computer Science I**

Problem solving and algorithm design; basic programming concepts including subprograms and objects; mathematical logic. Programming in a modern object-oriented language and an introduction to the UNIX operating system are an integral part of the course. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: No formal prerequisite; however, a strong aptitude for math usually predicts success in the course.*

#### **170 Fundamentals of Computer Science II**

Arrays, list processing, recursion, mathematical induction, introduction to computational complexity and reasoning about programs, introduction to object-oriented design. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Computer Science 120.*

#### **220 Fundamentals of Computer Science III**

Data structures, abstract data types, elementary graph theory,  $n \log n$  sorting algorithms, and dynamic memory allocation. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 170.*

### **270 Algorithms**

Algorithms and their analysis; advanced data structures. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Computer Science 220 or permission.*

### **310 Topics in Applied Computing**

A course offered in various formats, designed to give students instruction and hands-on experience in an area of applied computing. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 170.*

### **340 Database Systems**

Database organization and management; hierarchical, network, and relational models of data and some corresponding systems. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 170.*

### **350 Human Computer Interaction**

Analysis of human cognition and ergonomics applied to the design of usable, effective and enjoyable computer systems. (1)

Lecture: 3hrs/wk.

*Prerequisite: Computer Science 170.*

### **360 Networks**

An experiential study of the fundamentals of networking, networked applications, network security, and the use of software tools in troubleshooting networks. (Offered on a rotating basis, not every year.) (1)

Lectures: 3 hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: Computer Science 220.*

### **370 Computer Architecture and Operating Systems**

Machine language and assembly language concepts, data paths, parallel system architecture; system calls, process synchronization and scheduling, input and output subsystems, memory management, file systems. (Offered in 2010-2011 and alternate years.) (1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 220.*

### **390 Theory of Computation**

Study of formal models of computation. Topics include regular, context-free, context-sensitive, and unrestricted grammars; Church's thesis; computability; and undecidability. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 170.*

### **402 Numerical Analysis**

Numerical integration and differentiation, numerical methods in linear algebra, interpolation; error analysis, stability, and conditioning. (Offered on a rotating basis, not every year.)(Cross-listed as Mathematics 402.) (1)

Lecture: 3 hrs/wk.

*Prerequisites: Mathematics 201, Mathematics 122 Computer Science 120.*

#### **405, 406, 407 Independent Study and Research**

Selected topics in computer science carried out under the direction of a member of the computer science staff. (Enrollment with the approval of the Chair of the department.) (1/2, 1, 1/2)

#### **416 Internship**

Field placement providing practical experience and training in areas in which computer science is applied. These areas may include industry, government agencies, educational institutions, insurance companies, and a variety of private enterprises. (1)

*Prerequisite: Permission of the Department.*

#### **420 Simulation**

Techniques of digital computer simulation including modeling, data analysis, model validation, and simulation languages. (Offered on a rotating basis, not every year.) (1)

Lecture: 3 hrs/wk.

*Prerequisites: Statistics 202 and Computer Science 220.*

#### **425 Principles of Programming Languages**

Fundamentals in the design and implementation of programming languages. Topics include BNF, compilation and interpretation, data types, control structures, runtime systems, data abstraction, exception handling and concurrency. Language paradigms include functional, logic, and object oriented approaches. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 270.*

#### **430 Senior Seminar**

Advanced study in selected topics in a seminar format. (Offered in 2010-2011 and alternate years.)(1)

Lecture: 3 hrs/wk.

*Prerequisite: Computer Science 270.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisites: To qualify for consideration to receive honors in the major, a student, in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **CREATIVE WRITING**

*Professors Hanstedt, Heller, Schultz; Associate Professors Almeder, McGlaun; Lecturers Atkins, Hill*

Students may earn the concentration in creative writing by completing six units, selected from two required areas.

### **I. REQUIRED (three units)**

ENGL 215 Creative Writing-Fiction

ENGL 216 Creative Writing-Poetry

ENGL 316 Advanced Creative Writing

### **II. ELECTIVES (three units)**

Choose any three courses from among these possibilities:

One of the following: ENGL 220, 240, 250, or 260

One or more literature courses at the 300 or 400-level

ENGL 406 or ENGL 405 and 407 Independent Study

ENGL 496 or ENGL 495 and 497 Honors Project  
THEA 320 Playwriting

## **CRIMINAL JUSTICE**

*Associate Professor Peppers, Coordinator; Teaching Associates Brogan, Scott; Lecturers Clayton, Kirby*

The B.A. degree with a major in criminal justice may be awarded to those students who satisfactorily complete 12 units from the following program: Criminal Justice/Political Science 211 should be completed as early as possible; Statistics 101 should be used to satisfy one of the mathematics/science core requirements.

**A. Criminal Justice - three required units:**

CJUS/POLI 211 Criminal Justice  
CJUS/POLI/I.R. 340 Research Methods in Public Affairs  
CJUS 401 Seminar in Criminal Justice

**B. Political Science - two required units:**

POLI 101 American National Government  
POLI 201 State and Local Government or POLI 301 Public Administration

**C. Sociology - three required units:**

SOCI 101 Introduction to Sociology  
SOCI 238 Juvenile Delinquency  
SOCI 334 Criminology

**D. Electives - four required units:**

**Two from Group I: Policy Studies**

CJUS/POLI 213 Criminal Law  
CJUS/POLI 214 Judicial Process  
CJUS 215 Criminal Justice Forensics  
CJUS 325 Comparative Law Enforcement  
CJUS 326 Comparative Corrections

**Two from Group II: Related Studies**

BUAD 215 Accounting Principles I  
CHEM 105 Investigating Forensics Chemistry  
CJUS 227 Law and Society  
CJUS 231 Juvenile Justice  
POLI 201 State and Local Government  
POLI 312 Civil Liberties  
PSYC 211 Adolescent Development  
PSYC 230 Abnormal Psychology  
SOCI 237 Deviant Behavior

Units from among CJUS 261, 406, 416, 495-497 may be used as electives within either groups I or II with the approval of the major coordinator.

### **211 Criminal Justice**

An introductory analysis of the criminal justice system in the United States, its structure, processes, and problems. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

(Cross-listed as Political Science 211).

### **213 Criminal Law**

A study of the criminal justice system at work in the courtroom setting, emphasizing the relationship between substantive criminal law, criminal procedure, and the rules of evidence. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One course in criminal justice (Political Science 101 or 211, or Sociology 238 or 334).*

(Cross-listed as Political Science 213).

### **214 The Judicial Process**

An exploration of the politics of the American judicial system. This includes such topics as the structure of courts, selection of judges, actors who participate in the judiciary, judicial behavior, and the civil and criminal varieties of courts. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101.*

(Cross-listed as Political Science 214).

### **215 Criminal Justice Forensics**

An introduction to the practices of forensic science in law enforcement and the court system. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Criminal Justice/Political Science 211.*

### **227 Law and Society**

An introduction to legal culture by studying the interaction between law, legal systems, and society. The class exposes the student to the theoretical perspectives used to explain the interplay between law and society found in the literature of the social sciences. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101.*

### **231 Juvenile Justice**

An examination of the theory, policy, and administration of the juvenile justice system. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One course in Criminal Justice or permission.*

### **261 Selected Topics in Criminal Justice**

An examination of selected topics in criminal justice. (1)

Lecture: 3 hrs/wk.

### **325 Comparative Law Enforcement**

A comprehensive overview of law enforcement using a comparative perspective. The development, mission, organization, and management of law enforcement agencies will be examined. The U.S. system will be analyzed and compared to those of other countries. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Sociology 101 and Political Science 101.*

### **326 Comparative Corrections**

An exploration of philosophies, rationales, and models of adult corrections. Historical and existing correctional systems in select countries, e.g., the U.S., Canada, England, France, Japan, Mexico, Sweden, and Russia will be examined. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Criminal Justice 211 or Political Science 211.*

(Cross-listed as SOCI 326.)

### **340 Research Methods in Public Affairs**

An examination of the research methodologies and techniques used in the study of public policy and politics. The course emphasizes both qualitative and quantitative methods. The lab focuses on statistical applications. (1)

Lecture: 3 hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: POLI 101 and at least two other courses in the major or permission.*

(Cross-listed as I.R. 340 and POLI 340)

#### **401 Seminar in Criminal Justice**

Advanced, in-depth study of selected topics in criminal justice with emphasis on developing a synthesis from the multi-disciplinary coursework required in the major. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Senior Criminal Justice major with Political Science 301 and Sociology 334 completed, or permission.*

#### **406 Independent Study**

Supervised review of a literature and research project in the area of criminal justice. (1)

*Prerequisite: A minimum 3.0 major GPA and both Departmental and instructor permission.*

#### **416 Internship**

A supervised placement providing practical experience in an agency relating to criminal justice. (1)

*Prerequisite: A minimum 2.5 major GPA and both Departmental and instructor permission*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student, in his/her senior year or in the Summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **EAST ASIAN STUDIES**

*Professor Warshawsky and Assistant Professor Xu, Co-Coordinator*

Students from any major interested in developing a specialization in East Asia may earn a concentration in East Asian Studies by successfully completing (with a cumulative grade point average of at least 2.0), either in an approved program in East Asia or on campus, at least six units. Of these units, two must be in an East Asian language (Chinese, Japanese, or Korean), one must be in East Asian History, and one must be in Asian politics. The other two units are to be taken from relevant courses on or off campus, including special topics classes. One unit may be taken from an international perspective (see East Asian Studies advisor for list of courses available). An internship or independent study focused on an East Asian topic in any department is also advisable; the topic must be approved by the East Asian Studies advisor as well as the relevant department. Interested students should contact the East Asian Studies advisor as soon as possible for help in identifying appropriate courses either on campus or overseas.

- 1. Two units in a language (required)**  
Chinese, Japanese, or Korean
- 2. One unit in East Asian History (required); in addition, up to two other units may be taken in East Asian history.**  
HIST 281 Early East Asian History  
HIST 282 Modern East Asian History
- 3. One unit in Asian Politics (required)**  
POLI 222 Comparative Political Systems: Asia
- 4. One unit from an international perspective (optional)**  
BUAD 211 Introduction to Global Management  
ECON 237 Comparative Economic Systems  
ECON 247 International Trade and Finance

POLI 231 International Politics  
POLI 232 International Organizations  
RELG 130 Living Religions of the World

**5. One unit in an independent study/internship (optional)**

NOTE: Either in any discipline as long as the topic is East Asian.

**6. One unit from Selected Topics (optional)**

NOTE: Any selected topics course which focuses on Asia.

## **ECONOMICS**

*Professor Fleming, Coordinator; Associate Professor Kassens, Nik-Khah; Assistant Professor Berger; Senior Lecturer Fleck*

The major in Economics requires eleven (11) units in economics as follows: Economics 121, 122, 232, 321, 322, 448, 461, and any four (4) economics courses at the 200 level or higher (excluding Economics 416 – Internship). Mathematics 111 or 112 or 121 is a prerequisite for Economics 321 and 322, and INQ 240 is a prerequisite for Economics 448.

Although students may take Economics 121 and 122 in either order, the recommended sequence is 121 followed by 122. Business Administration 215 and 225 are recommended for those students whose career plans might include an accounting component.

Admission to the BA program in Economics requires the approval of the department chairperson. An application should be submitted as soon as a student becomes interested in the major and shows evidence of possessing the quantitative and analytical skills required to satisfactorily complete this major. Economics 120 cannot be used for the Economics or Business Administration majors. Economics 120 can serve as a prerequisite for Economics 227, 237, 244, 257, and for Business Administration 233, for non-majors only.

### **Minor in Economics**

The minor in Economics requires seven (7) units in economics as follows: Economics 121, 122, 321, 322, 461 and any two (2) economics courses at the 200 level or higher. Mathematics 111 or 112 or 121 is a prerequisite for Economics 321 and 322, and INQ 240 is a prerequisite for Economics 448.

#### **120 Introduction to Economics**

A course introducing the student to contemporary economic discourse, with an emphasis on the pricing mechanism, competitive and monopolistic markets, poverty and inequality, national income, and unemployment. (Not open to anyone majoring in Business Administration or Economics, or anyone currently enrolled in or having completed Economics 121 and 122.)(1)

Lecture: 3 hrs/wk.

#### **121 Principles, Micro**

An introduction to contemporary economic discourse, with an emphasis on the pricing mechanism, production, competitive and imperfectly competitive markets, game theory, poverty and inequality, public economics, and global trade. (1)

Lecture: 3 hrs/wk.

#### **122 Principles, Macro**

An introduction to contemporary economic discourse, with an emphasis on aggregate concepts and problems such as unemployment, inflation, growth and international trade and the role of government in dealing with these problems. (1)

Lecture: 3 hrs/wk.

#### **227 Health Economics**

An examination of the production of health and the role of medical services, the determinants of the demand for medical care and the impact of health insurance, the determinants of the supply of medical services, the role of government in promoting health and the financing and delivery of health care, and the impact of behavioral factors on health. (1)

Lecture: 3 hrs/wk.

Prerequisite: Economics 120 or 121.

### **232 Money and Banking**

Money, credit, and the banking system with special emphasis on the role of money as a determinant of economic activity. Attention is also given to international monetary markets. (1)

Lecture: 3 hrs/wk.

Prerequisites: Economics 121 and 122.

### **237 Comparative Economic Systems**

The ideological, theoretical, and institutional basis for planned and market economies with examples drawn from various countries. (1)

Lecture: 3 hrs/wk.

Prerequisite: Economics 120 or 121.

### **242 Economics of the Public Sector and its Finance**

An analysis of the relationship between the state and the market, with an emphasis on the role of the state in reducing poverty and inequality, promoting health, safeguarding the environment, addressing corporate power, and financing these activities through effective taxation. (1)

Lecture: 3 hrs/wk.

Prerequisites: Economics 121 and 122.

### **247 International Trade and Finance**

An analysis of the benefits and costs of trade, the impact of trade barriers and controls, the effects of globalization, and the role of money and capital markets in international commerce. (1)

Lecture: 3 hrs/wk.

Prerequisites: Economics 121 and 122.

### **257 Competition, Monopoly, and Public Policy**

An examination of the role of the state in addressing corporate power. Topics emphasized include collusion, mergers, technology an intellectual property, and the uses of antitrust law and regulation. (1)

Lecture: 3 hrs/wk.

Prerequisite: Economics 120 or 121.

### **261 Topics in Economics**

Selected topics involving problems and controversies of a social and political nature. (1)

Lecture: 3 hrs/wk.

### **267 Labor Economics**

Analysis of the short-and long-run aspects of the supply and demand for labor, with attention paid to labor market issues including wage inequality, human capital formation, and unemployment. (1)

Lecture: 3hrs/wk.

Prerequisite: ECON 120 or 121.

### **287 Ecological Development Economics**

The ecological, institutional, and technological basis for the human economic system as a subsystem of the larger ecological and social systems, with examples drawn from various regions of the world. (1)

Lecture: 3 hrs/wk.

### **321 Intermediate Theory: Microeconomics**



In-depth coverage of contemporary economic discourse, with an emphasis on the pricing mechanism, competitive and imperfectly competitive markets, game theory, the distribution of income, and public economics. (1)

Lecture: 3 hrs/wk.

Prerequisites: Economics 121; Mathematics 111 or 112 or 121.

### **322 Intermediate Theory: Macroeconomics**

An examination of the measurement, analysis, and control of aggregate economic activity, with particular attention to the roles played by government in achieving full employment and price stability. (1)

Lecture: 3 hrs/wk.

Prerequisites: Economics 122, 232 or permission; and Mathematics 111 or 112 or 121.

### **395, 396 Henry H. Fowler Public Policy Seminar**

A seminar taught with a scholar-statesperson that deals with a policy issue of public significance. (Made possible by the Henry H. Fowler Endowment. Open to selected students with department permission.) (1, 1/2)

### **405, 406, 407 Independent Study**

A program of intensive study in economics carried out under the direction of a member of the departmental staff. (Open to majors with the permission of the department.) (1/2, 1, 1/2)

### **416 Internship**

Work experience in private or public sector, utilizing analytical tools, and including a student project. (Admission by permission of department. May not be counted toward major credit.) (1)

### **448 Introduction to Econometrics**

An introduction to the statistical methods used in empirical economic research. The objective of the course is to provide both a working knowledge of econometric theory and an applied experience through estimating empirical models using econometric software. (1)

Lecture: 3 hrs/wk.

Prerequisite: Economics 321 or 322; and INQ 240; or permission of the instructor.

### **461 Economics Seminar**

An in-depth investigation of topical issues in economics at the advanced theory level. (1)

Lecture: 3 hrs/wk.

Prerequisite: Senior standing in Economics or permission.

### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)

## **EDUCATION**

*Associate Professors Earp, Murrill, Reynolds, Stallions, G. Whitt; Teaching Associates Elmore, Stoneman; Lecturer M. Whitt*

Roanoke College's Education Program is approved by the Department of Education for the Commonwealth of Virginia. The program offers teacher licensure with endorsements in the following areas:

### **Elementary Education (PreK-6)**

#### **Secondary Licenses (6-12)**

- Biology

- Chemistry
- Computer Science
- English (Add-ons: Speech Communication, Journalism)
- History and Social Science
- Mathematics
- Physics

#### **Foreign Languages (PreK-12)**

- French
- German
- Spanish

#### **Specialty Area Licenses (PreK-12)**

- English as a Second Language
- Health and Physical Education
- Music Education: Vocal/Choral
- Theatre Arts
- Visual Art Education

#### **Add-on Endorsement (6-12)**

- Mathematics-Algebra

For elementary licensure, freshmen and transfer students entering **Roanoke College major in a discipline other than business administration** as required by the Virginia State Board of Education. Secondary education licensure candidates must complete a major in a subject pertinent to their licensure area.

#### **Course Requirements for Specific Teacher Licensure Programs:**

##### **Elementary License**

##### **Elementary Education (PreK-6)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 230	Reading and Literature in the Elementary Classroom
EDUC 242	Instructional Technology
EDUC 320	Differentiated Instruction for Elementary Math and Science
EDUC 330	Differentiated Instruction for Elementary Language Arts
EDUC 338	Field-Based Internship/Practicum
EDUC 350	Differentiated Instruction for Elementary Social Studies
EDUC 370	Field-Based Reading
EDUC 480	Strategic Classroom Management in the Elementary School (in Block)
EDUC 490	Student Teaching, Grades PreK-6 (in Block, 2 units)
HIST 175	United States History
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools

##### **Secondary Licenses**

**Biology (6-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
BIOL 120	Principles of Biology
BIOL 125	Biodiversity
BIOL 455	Seminar
One unit from Molecular Biology & Genetics: BIOL 315, 345, 346, 365, 380, 390, 400;	
One unit from Cell Biology & Microbiology: BIOL 210, 305, 345, 346, 375, 390, 420, 430;	
One unit from Integrative Biology: BIOL 235, 240, 265, 270, 275, 280, 345, 346, 365, 375;	
One unit from Ecology & Evolution: BIOL 205, 225, 300, 345, 346, 360;	
Two additional units from any four Biology core areas	

## Also:

CHEM 111	General Chemistry I
CHEM 112	General Chemistry II
CHEM 221	Organic Chemistry I
CHEM 222	Organic Chemistry II
MATH 112	Concepts and Techniques of Calculus ( <b>OR</b> higher)
INQ 240	Statistical Reasoning
PHYS 103	Fundamentals of Physics I
PHYS 104	Fundamentals of Physics II

*It is recommended that students seeking this endorsement substitute MATH 121 (Calculus I) for one of the math requirements and Physics 201-202 (Newtonian Mechanics and Electricity and Magnetism, which are calculus-based) for Physics 103-104.*

**Chemistry (6-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)

EDUC 491	Student Teaching, Grades 6-12 ( <u>in Block</u> , 2 units)
PSYC 215	Child and Adolescent Development
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
CHEM 111	General Chemistry I
CHEM 112	General Chemistry II
CHEM 221	Organic Chemistry I
CHEM 222	Organic Chemistry II
CHEM 331	Physical Chemistry I
CHEM 332	Physical Chemistry II

Three other units from department offerings.

Also:

BIOL 125	Biodiversity
PHYS 103	Fundamental Physics I <b>OR</b>
PHYS 201	Newtonian Mechanics
PHSY 104	Fundamental Physics II <b>OR</b>
PHYS 202	Electricity and Magnetism
MATH 121	Calculus I

#### **Computer Science (6-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
CPSC 120	Fundamentals of Computer Science I
CPSC 170	Fundamentals of Computer Science II
CPSC 220	Fundamentals of Computer Science III
CPSC 270	Algorithms
CPSC 340	Database Systems
CPSC 370	Computer Architecture and Operating Systems
CPSC 425	Principles of Programming Languages
INQ 240	Statistical Reasoning <b>OR</b>
STAT 202	Probability <b>OR</b>
STAT 301	Statistical Methods
MATH 121	Calculus I
MATH 131	Discrete Mathematics
MATH 201	Linear Algebra

**English (6-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
COMM 101	Introduction to Communications Studies <b>OR</b>
COMM 220	Public Speaking
INQ 110	Intellectual Inquiry
ENGL 220	Special Topics <b>OR</b>
ENGL 260	World Literature
ENGL 240	British Literature
ENGL 250	American Literature
ENGL 321	Advanced Grammar and Style
ENGL 322	Theory & Practice of Composition
ENGL 323	The English Language

Two additional one-unit upper level courses at the 300-400 levels.

**Add-ons to English License (6-12)*****Speech Communication***

COMM 101	Introduction to Communication Studies
COMM 220	Public Speaking
THEA 111	Voice and Diction

***Journalism***

COMM 202	Mass Communication
COMM 319	Journalism

**History and Social Sciences (6-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools

HIST 125 World History I **OR**  
HIST 150 World History II  
HIST 175 U.S. History

Two units from the American History course groups (200, 300, 400 levels) in history major.

One other one-unit history course from departmental offerings. *A non-western unit is strongly recommended to fulfill the additional course required.*

GEOG 110 World Geography

One other one-unit geography course from departmental offerings; *Geography 101 is strongly recommended.*

Two one-unit economics courses from Business/Economics department offerings.

POLI 101 American National Government

Two other one-unit political science courses from departmental offerings.

### **Mathematics (6-12)**

EDUC 210 Principles of Education  
EDUC 221 The Exceptional Student  
EDUC 242 Instructional Technology  
EDUC 311 Secondary Curriculum Concepts and Pedagogy  
EDUC 338 Field-Based Internship/Practicum  
EDUC 345 Differentiated Classrooms in the Secondary School  
EDUC 351 Teaching Reading and Writing in the Content Areas, 6-12  
EDUC 481 Strategic Classroom Management in the Secondary School (in Block)  
EDUC 491 Student Teaching, Grades 6-12 (in Block, 2 units)  
PSYC 215 Child and Adolescent Development  
TESL 221 Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools  
  
MATH 121 Calculus I  
MATH 122 Calculus II  
MATH 131 Discrete Mathematics  
MATH 201 Linear Algebra  
MATH 321 Vector Calculus  
MATH 361 Abstract Algebra  
MATH 388 Topics in Mathematics: Foundations of Geometry  
CPSC 120 Fundamentals of Computer Science I  
STAT 202 Probability  
INQ 240 Statistical Reasoning **OR**  
STAT 301 Statistical Methods

Plus one additional unit course in mathematics at the 200-level or above.

### **Physics (6-12)**

EDUC 210 Principles of Education  
EDUC 221 The Exceptional Student  
EDUC 242 Instructional Technology  
EDUC 311 Secondary Curriculum Concepts and Pedagogy  
EDUC 338 Field-Based Internship/Practicum  
EDUC 345 Differentiated Classrooms in the Secondary School  
EDUC 351 Teaching Reading and Writing in the Content Areas, 6-12  
EDUC 481 Strategic Classroom Management in the Secondary School (in Block)

EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
PHYS 201	Newtonian Mechanics
PHYS 202	Electricity and Magnetism
PHYS 203	Modern Physics
PHYS 315	Experimental Analysis
PHYS 350	Electromagnetic Theory
PHYS 370	Thermal Physics
PHYS 480	Senior Seminar: Physics Capstone

Also:

BIOL 125	Biodiversity
CHEM 111	General Chemistry I
CHEM 112	General Chemistry II
MATH 121	Calculus I
MATH 122	Calculus II
MATH 331	Differential Equations

### Foreign Language Licenses

#### **French (PreK-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 338	Field Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 490	Student Teaching, Grades PreK-6 (in Block, 2 units) <b>OR</b>
EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units) <b>OR</b>
EDUC 492	Student Teaching, Grades PreK-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools
FREN 101	Elementary French I
FREN 102	Elementary French II
FREN 201	Intermediate French I
FREN 202	Intermediate French I
FREN 341	Methods of Teaching French <b>OR</b>
LANG 341	Methods of Teaching Foreign Language

One language course from the following:

FREN 300, 301 **OR** 303

One composition course from the following:

FREN 302 **OR** 304

One unit in civilization and culture from:

FREN 311 Building a Nation: French Civilization and Culture I

- FREN 312 A Nation Emerges: French Civilization and Culture II
- FREN 313 French Life and Culture
- FREN 315 Francophone Societies

One course from four of any of the five periods of literature listed below:

**Middle Ages**

- FREN 421 The Medieval World Renaissance

**Renaissance**

- FREN 420 The French Poetic Tradition
- FREN 431 Renaissance Vision and Voices

**17th and 18th Centuries**

- FREN 441 Political and Civil Order in 17<sup>th</sup> and 18th-Century French Literature

**19th Century**

- FREN 420 The French Poetic Tradition
- FREN 451 Romanticism, Realism and Naturalism in the 19th-Century Literature

**20th Century**

- FREN 461 The Modern Novel and Short Story
- FREN 462 From Surrealism to the Absurd in 20th Century Drama

*NOTE: FREN 420 may be counted for only one period of Literature.*

**German (PreK-12)**

- EDUC 210 Principles of Education
- EDUC 221 The Exceptional Student
- EDUC 242 Instructional Technology
- EDUC 338 Field-Based Internship/Practicum
- EDUC 345 Differentiated Classrooms in the Secondary School
- EDUC 351 Teaching Reading and Writing in the Content Areas, 6-12
- EDUC 481 Strategic Classroom Management in the Secondary School (in Block)
- EDUC 490 Student Teaching, Grades PreK-6 (in Block, 2 units) **OR**
- EDUC 491 Student Teaching, Grades 6-12 (in Block, 2 units) **OR**
- EDUC 492 Student Teaching, PreK-12 (in Block, 2 units)
- PSYC 215 Child and Adolescent Development
- TESL 220 Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools
- GRMN 101 Elementary German I
- GRMN 102 Elementary German II
- GRMN 201 Intermediate German I
- GRMN 202 Intermediate German II
- GRMN 301 German Composition and Conversation
- GRMN 314 The Cultures of the German-Speaking Countries **OR**
- GRMN 315 The Post-War Germanies
- GRMN 320 Age of Goethe: Faust
- GRMN 321 Survey of German Literature
- GRMN 461 20th-Century Fiction
- GRMN 335 German Phonetics and Phonology
- LANG 341 Methods of Teaching Foreign Language

**Spanish (PreK-12)**

- EDUC 210 Principles of Education



EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School ( <u>in Block</u> )
EDUC 490	Student Teaching, Grades PreK-6 (in Block, 2 units) <b>OR</b>
EDUC 491	Student Teaching, Grades 6-12 (in Block, 2 units) <b>OR</b>
EDUC 492	Student Teaching, Grades PreK-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools
SPAN 101	Elementary Spanish I
SPAN 102	Elementary Spanish II
SPAN 201	Intermediate Spanish I
SPAN 202	Intermediate Spanish II
SPAN 303	Spanish Composition
SPAN 304	Spanish Conversation
SPAN 311	Civilization and Culture: Spain <b>OR</b>
SPAN 312	Civilization and Culture: Spanish America
SPAN 320	Introduction to Literature: Spain
SPAN 323	Introduction to Literature: Spanish America
SPAN 341	Methods of Teaching Spanish <b>OR</b>
LANG 341	Methods of Teaching Foreign Language
SPAN 402	The Structure of Modern Spanish <b>OR</b>
SPAN 403	Translation and Interpretation
Two 400-level Spanish courses	
Two one-unit elective Spanish courses from 300-400 level courses.	

### **Specialty Area Licenses**

#### **English as a Second Language (PreK-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 338	Field-Based Internship/Practicum
EDUC 351	Teaching Reading & Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 491	Student Teaching, PreK-12 (in Block, 2 units)
ENGL 321	Advanced Grammar and Style
LANG 341	Methods of Teaching Foreign Languages
LING 320	Basic Linguistics
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools

- TESL 246 Reading and Principles of Second Language Acquisition  
 TESL 370 Field Experience in Reading Instruction and Diagnosis for English Language hope Learners  
 TESL 346 Curriculum and Assessment for the ESL Teacher

*In addition, students must complete 2 units of modern foreign language study in the same language. (Competency will be accepted based on College “Competency Standards”).*

**Health and Physical Education (PreK-12)**

- BIOL 101 Life on Planet Earth **OR**  
 BIOL 120 Principles of Biology  
 BIOL 230 Human Anatomy and Physiology I  
 EDUC 210 Principles of Education  
 EDUC 242 Instructional Technology  
 EDUC 338 Field-Based Internship/Practicum  
 EDUC 351 Teaching Reading and Writing in the Content Areas, 6-12  
 EDUC 481 Strategic Classroom Management in the Secondary School (in Block)  
 EDUC 491 Student Teaching, Grades PreK-12 (in Block, 2 units)  
 HHP 200 Foundations of Movement  
 HHP 203 Individual Sports  
 HHP 204 Team Sports  
 HHP 205 Non-Traditional Games and Activities  
 HHP 206 Fundamentals of Rhythms and Dance  
 HHP 207 Health Fitness Concepts and Applications  
 HHP 221 Professional Concepts and Leadership Development  
 HHP 223 First Aid & Safety (or demonstrated competency in “Responding to Emergencies” course)  
 HHP 301 Personal and Community Health  
 HHP 302 Physical Education Methods & Materials I: PreK-6  
 HHP 305 Adapted and Developmental Physical Education  
 HHP 306 Motor Behavior  
 HHP 335 Coordinated School Health Programs  
 HHP 403 Exercise Physiology  
 HHP 404 Physical Education Methods and Materials: 6-12  
 HHP 409 Health Education Methods & Materials: PreK-12  
 PSYC 215 Child and Adolescent Development  
 TESL 220 Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools

Two Health and Human Performance activities from catalog listings, one of which must be HHP 160, are required.

**Music Education: Vocal/Choral (PreK-12)**

- EDUC 210 Principles of Education  
 EDUC 221 The Exceptional Student  
 EDUC 242 Instructional Technology  
 EDUC 311 Secondary Curriculum Concepts and Pedagogy  
 EDUC 338 Field-Based Internship/Practicum  
 EDUC 345 Differentiated Classrooms in the Secondary School  
 EDUC 351 Teaching Reading and Writing in the Content Areas, 6-12

EDUC 481	Strategic Classroom Management in the Secondary School
EDUC 492	Student Teaching, Grades PreK-12 (in Block, 2 units)
MUSC 150	Fundamentals of Music
MUSC 240	Music in Culture
MUSC 251	Diatonic Harmony
MUSC 252	Chromatic Harmony
MUSC 261	Music History I: 300 A.D. to 1750
MUSC 262	Music History II: 1750 to Present
MUSC 321	Instrumentation and Score Reading
MUSC 323	Conducting
MUSC 339	Music Education in the Elementary School
MUSC 340	Music Education in Secondary School
MUSC 350	20th-Century Theory
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools

Private applied music  
(5 sem. @ 1/4 unit each = 1.25 units)

Second private applied music  
(4 sem. @ 1/4 unit each = 1 unit)

Ensemble (7 sem. @ 1/4 unit each = 1.75 units)

#### **Theatre Arts (PreK-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 492	Student Teaching, Grades PreK-12 (in block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
THEA 125	Stagecraft
THEA 150	Play Analysis
THEA 211	Acting I
THEA 212	Acting II
Three other Theatre Arts courses (three units)	

#### **Visual Arts (PreK-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology

EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Areas, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 492	Student Teaching, Grades PreK-12 (in Block, 2 units)
PSYC 215	Child and Adolescent Development
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools
ART 101	Arts and Crafts in the Schools
ARTH 146	Survey of Art History I
ARTH 156	Survey of Art History II
ART 240	Children and Their Art (at Hollins)

Seven additional units as follows:

Two units from the following:

ART 111, 121, 131, 151

One unit from the following:

ART 171 **OR** 181

Two units from the following:

ART 211, 221, 231, 241, 261, 271, **OR** 281

Two units from the following:

ART 311, 321, 331, 341, 361, 371, **OR** 381

*Note: Two media must be completed through the advanced (300) level. Media are painting, ceramics, photography, drawing, printmaking, graphic design, and sculpture.*

Note: ART 151 is the entry class for ART 241 and ART 261.

### **Add-on Endorsement**

#### **Mathematics-Algebra (6-12)**

EDUC 210	Principles of Education
EDUC 221	The Exceptional Student
EDUC 242	Instructional Technology
EDUC 311	Secondary Curriculum Concepts and Pedagogy
EDUC 338	Field-Based Internship/Practicum
EDUC 345	Differentiated Classrooms in the Secondary School
EDUC 351	Teaching Reading and Writing in the Content Area, 6-12
EDUC 481	Strategic Classroom Management in the Secondary School (in Block)
EDUC 491	Student Teaching, Grades 6-12 (in Block, 1 unit)
TESL 220	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools <b>OR</b>
TESL 221	Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools
MATH 121	Calculus I
MATH 122	Calculus II
MATH 131	Discrete Mathematics
MATH 201	Linear Algebra
MATH 388	Topics in Mathematics: Foundations of Geometry
PSYC 215	Child and Adolescent Development

CPSC 120	Foundations of Computer Science I <b>OR</b>
INQ 241	Mathematical Reasoning (Departmental approval – course with a computer science topic that includes some programming)
INQ 240	Statistical Reasoning <b>OR</b>
STAT 202	Probability <b>OR</b>
STAT 301	Statistical Methods

Guidance in the selection of both Inquiry Curriculum and elective courses is strongly advised. A second advisor from the Education faculty is required for all students seeking teacher licensure.

For teacher licensure, Honors courses will count in the same manner for Inquiry Curriculum courses or major courses as in the Honors program. For specific information, consult with a major advisor.

### **Minor in Elementary Education: Teaching in the Diverse Classroom**

A minor in Elementary Education (PreK-6) requires six units, including Education 210, 221, 230, 242, 320, 338, and TESL 220.

*NOTE: Completion of a minor in Elementary Education does not meet all requirements for elementary teacher licensure. An overall 2.5 GPA, 2.5 GPA in the minor, VCLA and Praxis I math completed successfully or have met the SAT/ACT established pass score, as outlined below, are required for granting the minor.*

### **Minor in Secondary Education: Teaching in the Diverse Classroom**

A minor in Secondary Education (6-12) requires six units, including Education 210, 221, 242, 338, 345, 351 and TESL 220 OR 221.

*NOTE: Completion of a minor in Secondary Education does not meet all requirements for secondary teacher licensure. An overall 2.5 GPA, 2.5 GPA in the minor, VCLA and Praxis I math completed successfully or the SAT/ACT established pass score, as outlined below, are required for granting the minor.*

### **Teacher Licensure Program Requirements**

The College has selective admission requirements for the Teacher Licensure Program. Points at which students must meet specific requirements include:

#### **Prerequisites for Methods Courses**

(EDUC 230, 311, 320, 330, 345, 350, 351)

- VCLA and Praxis I math attempted or SAT/ACT equivalency
- EDUC 210
- Prerequisites specific to courses listed under individual course descriptions

#### **Admission to EDUC 338: Field-Based Internship/Practicum**

- VCLA and Praxis I math completed successfully or SAT/ACT equivalency
- One methods course (EDUC 311, 320, 330, 345, 350, 351)
- EDUC 242
- 2.5 or greater overall GPA achieved
- Application approved by Education Department

#### **Admission to EDUC 370: Field Based Reading**

- VCLA and Praxis I math completed successfully or SAT/ACT equivalency
- EDUC 330

- 2.5 or greater overall GPA achieved
- Application approved by Education Department

**Admission to EDUC 490/491/492: Student Teaching**

- VCLA and Praxis I math completed successfully or SAT/ACT equivalency
- Praxis II completed successfully
- 2.5 or greater GPA achieved: overall, in EDUC/PSYC licensure courses, and in major (PK-6) or licensure area content courses (6-12 and PreK-12)
- Application approved by Education Department
- EDUC 338 or competency

**Formal Admission to Teacher Licensure Program**

- VCLA and Praxis I math completed successfully or SAT/ACT equivalency
- 2.5 or greater overall GPA achieved
- Admission to EDUC 338, 370 or EDUC 490/491/492

**Additional Information:**

- Application materials for field experience courses are due by: March 1 (for fall) and October 1 (for spring).
- As teachers are both ethically and legally responsible for children, it is imperative that pre-service teachers exhibit professional characteristics and dispositions. Students are required to complete a approved departmental disposition survey and demonstrate the required personal competencies delineated on the survey. A professional growth plan is available.
- In September and January, informational meetings are held for each field experience. During these meetings, applications are supplied, requirements are reviewed and questions are answered.
- GPA requirements for field experience courses refer to the grade point average earned at Roanoke College.
- In exceptional circumstances, a student may present to the Education advisor a formal written appeal asking for additional time to meet minimum requirements or consideration of coursework taken at other colleges.
- School divisions within the educational community may require a criminal background check of students seeking enrollment in field experiences.
- In accordance with state requirements, an applicant must possess the physical and mental health necessary for the tasks to be performed. Violation of a Roanoke College academic integrity or student conduct regulation, as well as convictions of any felony or any misdemeanor laws involving moral turpitude, may be taken as evidence of lack of fitness for admission or for recommendation for licensure. Evidence must be available from appropriate College officials and state government/police officials verifying that the standard has been met. The above described standards for admission to the program must be maintained, or the student may be dropped from the program.

**Professional Licensure Program**

Roanoke College offers a Professional Licensure Program (PLP) to graduates of regionally accredited institutions of higher learning. Graduates seeking program admission must meet and maintain all requirements of the Roanoke College teacher licensure program.

**Formal Admission to Professional Licensure Program:**

- VCLA and Praxis I math completed successfully or SAT/ACT equivalency
- 2.5 or greater overall GPA and major GPA achieved at the student's graduating institution
- Admission to or competency for EDUC 338, 370, or 490/491/492

**Additional Information:**

- GPA in content courses may be augmented by Roanoke College coursework.

- At time of application for student teaching, a 2.5 GPA must be achieved in Education coursework at Roanoke College.
- No more than half of the student's Education courses may be transferred to Roanoke College, and at least one Education methods course must be taken at Roanoke College.

### **Student Teaching**

Students seeking one endorsement area are required to student teach for a minimum 13 weeks and a minimum total of 400 hours. Students seeking added endorsements for teacher licensure will be required to extend their student teaching beyond the regular term. A minimum of 16-18 weeks of student teaching will be required if additional endorsements are sought. The course cannot be taken pass/fail. Specific endorsement areas and the required number of weeks of student teaching (noted parenthetically) are listed below:

**Elementary:** PreK-6 (thirteen weeks)

**Secondary:** Secondary 6-12 (thirteen weeks)

**Foreign Language:** PreK-12 (thirteen weeks)

**PreK-6 and One Secondary Subject Area (sixteen weeks total):** PreK-6 (eight weeks), Secondary subject area (eight weeks)

**PreK-6 and Foreign Language (sixteen weeks total):** PreK-6 (eight weeks), Foreign Language (eight weeks)

**Two Secondary Subject Areas (sixteen weeks total):** First subject area (eight weeks), Second subject area (eight weeks)

**PreK-12 Art, Music, Theatre or Physical Education (sixteen weeks total):** PreK-6 (eight weeks), Secondary (eight weeks)

**PreK-12 Art, Music, Theatre or Physical Education and PreK-6 (eighteen weeks total):** PreK-6 (six weeks), Subject area PreK-6 (six weeks); Subject area 6-12 (six Weeks)

*Note: During the term of student teaching, students may enroll in no more than one unit of credit in addition to student teaching and classroom management.*

### **International Student Teaching**

Roanoke College has a student teaching agreement with the US Department of Defense Dependent Schools (DoDDS) and places students in International Schools, accredited by the Council of International Schools. Student teaching candidates who have met all of the above qualifications, including the appropriate applications, may seek permission to student teach in abroad. Candidates are not guaranteed the opportunity. Students seeking permission to student teach abroad should consult the Education Handbook and their education advisor for details on the application process.

### **Mandated Tests**

- Praxis I Math

Minimum Score: 178

*NOTE: SAT score substitutions will be allowed in lieu of Praxis I math. A score of 530 or higher on the SAT, taken after April 1, 1995 OR, a score of 510 or higher on the SAT taken prior to April 1, 1995 may be used as a substitute for Praxis I math.*

*In addition, ACT score substitutions will be allowed in lieu of Praxis I. A score of 22 or higher on the ACT taken after April 1, 1995 OR a score of 21 or higher on the ACT, taken prior to April 1, 1995 may be used as a substitute for Praxis I math.*

- Virginia Communication and Literacy Assessment (VCLA)

Minimum Score: .....470

- Virginia Reading Assessment (VRA) – Elementary Licensure Candidates Only  
Minimum Score: .....235
- Praxis II Specialty Area Test

*Note: Students should take Praxis II in their specialty area based on the guidance of their education advisor. Minimum scores for each Praxis II specialty area tests are available in the Education Handbook.*

### **Program Completion**

Completion of the teacher licensure program is defined as a student's passage of the appropriate Praxis II examination, the Virginia Communication and Literacy Assessment, and the Virginia Reading Assessment (elementary only), as well as successful completion of student teaching and fulfillment of all course requirements as outlined in the College Catalog. No College recommendation for teacher licensure will be given until requirements are met.

- Policy for Oral Defense Evaluation: For successful completion of the oral defense, the student teacher must achieve an average of 3 or above on each goal. If a pre-service teacher receives an average score below 3 on a goal, he or she will be asked to revise the portfolio for that goal and present it to the college supervisor for reevaluation. The student teacher will not be recommended for licensure until a 3 or above is received as assessed by the college supervisor.
- Policy for Student Teaching Grade: For successful completion of EDUC 490/491/492 (EDUC 480/481 in Teaching in the Diverse Classroom program) Student Teaching, the student teacher will not be recommended for licensure if the student teaching grade is below a C-. Roanoke College policy will be followed for a receipt of course credit.
- Policy for Student Teacher Evaluation: For successful completion of student teaching and recommendation for licensure, an average of 3 or above must be achieved on each goal listed on the Final Evaluation of Student Teaching Performance. The student teacher's progress is monitored throughout student teaching experience, and all student teachers are informed by mid-semester if there are any areas of concern. If the student teacher receives a score below 3 on Midterm Evaluation of Student Teaching Performance, he or she must meet with the college supervisor to determine an early intervention plan (EIP) for improvement and compliance. Successful completion of student teaching will be contingent on completion of the EIP. A description of the EIP process is available in the Education Department Handbook.

### **210 Principles of Education**

Historical, philosophical, political and social principles of American education. Curricular patterns and objectives with emphasis on present-day changes and legal implications for schools and teachers. (1)

*Prerequisite: None*

Lecture: 3 hrs/wk.

### **221 The Exceptional Student**

Study of the development of children with exceptional needs (e.g., gifted, students with disabilities). (1/2)

*Prerequisite: Education 210.*

Lecture: 1 ½ hrs/wk.

### **230 Reading and Literature in the Elementary Classroom**

Examination of literature for children and adolescents as a context within which to introduce and strengthen skills that comprise reading: phonemic awareness, phonics, fluency, vocabulary and comprehension. (1)

*Prerequisites: VCLA and Praxis I math attempted or have met the SAT/ACT established pass score and EDUC 210.*



Lecture: 3 hrs/wk.

### **242 Instructional Technology**

Examination of how classroom teachers maximize both instructional efficiency and power with appropriate use of technology, including educational applications and creation of rich-media, html, spreadsheets, word-processors, course management tools, and related applications. (1/2)

*Prerequisite: EDUC 210.*

Lecture: 1 ½ hrs/wk.

### **260, 261 Selected Topics in Education**

A course offered in various formats, designed to give students instruction in topics not regularly offered, with topics selected on the basis of faculty and student interest. (1, 1/2)*Prerequisite: Permission*

Lecture: 3 hrs/wk.

### **311 Secondary Curriculum Concepts & Pedagogy**

Examination of key curriculum design and instructional planning elements, including use of technology, organization of the middle and secondary school, and current practices and trends in teaching at the 6-12 level. (1)

*Prerequisites: VCLA Praxis I math attempted or have met the SAT/ACT established pass score and EDUC 221.*

Lecture: 3 hrs/wk.

### **320 Differentiated Instruction for Elementary Math and Science**

Examination of the content knowledge, teaching strategies, methods, and theoretical foundations necessary to teaching math and science effectively in the elementary school. (1)

*Prerequisites: VCLA and Praxis I math attempted or have met the SAT/ACT established pass score and EDUC 210.*

Lecture: 3 hrs/wk.

### **330 Differentiated Instruction for Elementary Language Arts**

Examination of educational theory, pedagogical methods and issues related to teaching reading, writing, spelling and oral communication in the PreK-6 classroom. (1)

*Prerequisites: VCLA Praxis I math attempted or have met the SAT/ACT established pass score and EDUC 230.*

Lecture: 3 hrs/wk.

### **338 Field-Based Internship/Practicum**

Practical experience in an appropriate level and/or subject area within a public school classroom as a participant observer under the supervision of classroom teachers and an Education faculty member. (1)

*Prerequisites: EDUC 210, EDUC 242, one methods course, application by October 1st or March 1st, passing score on VCLA and Praxis I math or have met the SAT/ACT established pass score and approval.*

Seminar: 1 hr/wk.; Laboratory: Minimum 115 hours in schools.

### **345 Differentiated Classrooms in the Secondary School**

Examination of the processes and strategies of curriculum design and implementation, including differentiated instruction. (1)

*Prerequisites: VCLA and Praxis I math attempted or have met the SAT/ACT established pass score and EDUC 311 or LANG 341.*

Lecture: 3 hrs/wk.

### **350 Differentiated Instruction for Elementary Social Studies**

Examination of goals, content, materials, methods, and technology of teaching social studies in grades PreK-6. (1)

*Prerequisites: VCLA and Praxis I math attempted or have met the SAT/ACT established pass score, HIST 175, and either EDUC 320 or 330.*

Lecture: 3 hrs/wk.

### **351 Teaching Reading and Writing in the Content Areas, 6-12**

Examination of the processes and strategies of curriculum design and implementation for teaching reading, writing, and study skills in the middle and secondary school subject matter areas. (1)

*Prerequisites: VCLA and Praxis I math attempted or have met the SAT/ACT established pass score and EDUC 311 or HHP 302 or HHP 404 or HHP 409 or LANG 341.*

Lecture: 3 hrs/wk.

### **370 Field Based Reading, PreK-6**

Examination of the use of formal and informal assessment tools to assess reading level, diagnose needs, and monitor student progress. Through field experiences, data organization and analysis will provide information to plan and implement individualized reading based instruction. (1)

*Prerequisite: Praxis I completed successfully or have met the SAT/ACT established pass score, passing score on VCLA and Praxis I math completed successfully or have met the SAT/ACT established pass score, EDUC 330, and approval.*

Lecture: 1 ½ hrs/wk.; Laboratory: Field experience is required.

### **405, 406, 407 Independent Study and Research**

Selected research projects or topics in education carried out under the supervision of the departmental staff. (1/2, 1, 1/2)

*Prerequisite: Permission.*

### **480 Strategic Classroom Management in the Elementary School**

Examination of the cognitive, physical, social and emotional characteristics of elementary school students through field observation, professional readings, class discussion and construction of comprehensive classroom management plans. Attention will be given to philosophies and strategies of classroom management proven effective with this age group. (1/2)

*Prerequisites: All admission requirements for EDUC 490 or EDUC 492 student teaching must be met. EDUC 480 must be taken concurrently with EDUC 490.*

Lecture: 1 ½ hrs/wk.

### **481 Strategic Classroom Management in the Secondary School**

Examination of the cognitive, physical, social and emotional characteristics of middle and secondary school students through field observation, professional readings, class discussion and construction of comprehensive classroom management plans. Attention will be given to philosophies and strategies of classroom management proven effective with this age group. (1/2)

*Prerequisites: All admission requirements for EDUC 491 or EDUC 492 student teaching must be met. EDUC 481 must be taken concurrently with EDUC 491.*

Lecture: 1 ½ hrs/wk.

### **490 Student Teaching-Grades PreK-6, Elementary**

Examination of the processes and strategies necessary to teach effectively in the public or department approved, accredited independent school classroom: planning and implementing instruction, managing classrooms, and collaborating successfully with teachers, administrators, and parents. (1, 1)

*Prerequisite: VCLA and Praxis I math completed successfully or have met the SAT/ACT established pass score, Praxis II completed successfully, EDUC 338 or competency, background check, 2.5 GPA (overall, major, and education/psychology licensure courses) and approval.*

Seminar: 1 hr/wk.; Laboratory: Minimum 400 hours in schools.

### **491 Student Teaching-Grades 6-12, Secondary**

Examination of the processes and strategies necessary to teach effectively in the public school or department approved, accredited independent school classroom: planning and implementing instruction, managing classrooms, and collaborating successfully with teachers, administrators, and parents. (1, 1)

*Prerequisite: VCLA and Praxis I math completed successfully or have met the SAT/ACT established pass score, Praxis II completed successfully, EDUC 338 or competency, background check, 2.5 GPA (overall, licensure area content courses, and education/psychology licensure courses) and approval.*

Seminar: 1 hr/wk.; Laboratory: Minimum 400 hours in schools.

### **492 Student Teaching-Grades PreK-12, Elementary and Secondary**

Examination of the processes and strategies necessary to teach effectively in the public school classroom or department approved, accredited independent school: Planning and implementing instruction, managing classrooms, and collaborating successfully with teachers, administrators and parents

Lecture: 1 hr/wk.; Student Teaching: 35 hrs/wk.

*Prerequisite: VCLA and Praxis I math completed successfully or have met the SAT/ACT established pass score, Praxis II completed successfully, EDUC 338 or competency, background check, 2.5 GPA (overall, licensure area content courses, and education/psychology licensure courses) and approval.*

## **ENGLISH**

*Professors Hanstedt, Heller, Hoffman, Kuchar, Schultz, A. Turpin; Associate Professors Almeder, Carter, Cooper, W. Larson-Harris, McGlaun, V. Stewart, Whiteside; Assistant Professors Mallavarapu, McGraw, Tenbrunsel; Teaching Associates Hill, D. Selby; Visiting Professor Hopson; Senior Lecturers Atkins, Fishwick, Rosti*

The English major requires 11 units of work. These must include three required core courses: English 332, 411-412. Additionally, three 200-level courses and five 300 or 400-level courses are required as described below.

### **The English Major**

#### **I. Core requirements (three units)**

ENGL 332          Shakespeare

ENGL 411/412      Seminar

#### **II. Additional requirements (at least eight units)**

A. Three introductory 200-level courses:

ENGL 240      British Literature

ENGL 250      American Literature

and either ENGL 220 Special Topics or ENGL 260 World Literature

B. One course before 1800, from:

ENGL 330      Chaucer

ENGL 333      The Literature of Tudor and Stuart England (at Oxford University)

ENGL 334      Studies in Medieval Literature

ENGL 335      Studies in Renaissance Literature

ENGL 336      Studies in Restoration and 18th-Century Literature

C. Four additional 300-level electives, from any of the courses above or English 301, 302, 304, 305, 308, 310, 312, 315, 316, 320, 321, 322, 323, 337, 338, 339, 350, 351, 352, 354, or 356.

The following courses may substitute for 300-level electives above, as appropriate and with departmental approval: English 405, 406, 407, 416, 495, 496, or 497.

Prerequisites: Because students are expected to have sufficient skills in critical reading and writing about literature, two 200-level courses, one of which must be English 240 or 250, are required as prerequisites for the upper-level English courses. Unless otherwise stated, 300- or 400-level English courses require as prerequisites English 240 or 250, and one other 200-level course.

Note for Non-English Majors: The English Department encourages upper-level students in other majors to take English electives; exceptions to prerequisites can be made with permission of the instructor.

### **Minor in American Literature**

A minor in American literature requires six units, including English 250, either 220 or 260, 339, and any three from English 302, 304, 310, 312, 315, or as appropriate from English 301, 308, 350, 351, 352, 354, 405, 406, 407, 495, 496 or 497.

### **Minor in British Literature**

A minor in British literature requires six units, including English 240, either 220 or 260, 332, and any three from English 315, 330, 333, 334, 335, 336, 337, 338, or as appropriate from English 301, 305, 308, 350, 351, 352, 354, 405, 406, 407, 495, 496, or 497.

### **Concentration in Communications**

Please see heading “Communications” for a description of the Communications Concentration.

### **Concentration in Creative Writing**

Please see heading “Creative Writing” for a description of the Creative Writing Concentration.

### **215 Creative Writing-Fiction**

Designed to encourage students who have a genuine interest in, and talent for, writing fiction and to guide and criticize their efforts. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Honors 105, INQ 110, or INQ 120.*

### **216 Creative Writing-Poetry**

Designed to encourage students who have a genuine interest in, and talent for, writing poetry and to guide and criticize their efforts. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Honors 105, INQ 110, or INQ 120.*

### **220 Special Topics**

Critical reading and literary analysis of major texts surrounding a focused topic of particular interest to the introductory study of literature. A variety of genres (poetry, prose, and drama, as relevant) will be included. (1)

Lecture: 3 hrs/wk.

### **240 British Literature**

Critical reading and literary analysis of major texts and genres (poetry, prose, and drama) across periods in the British tradition. (1)

Lecture: 3 hrs/wk.

### **250 American Literature**

Critical reading and literary analysis of major texts and genres (poetry, prose, and drama) across periods in the American tradition. (1)

Lecture: 3 hrs/wk.

### **256 The Art and History of Film**

Critical study of selected films drawn from a variety of periods and national cinemas. The course will focus on the elements of film and how directors use these elements to achieve their effects and make their meanings. Works will be placed within the history of cinema, allowing attention to how the elements of film art have developed over time. (1)

Lecture: 3hrs/wk; Laboratory: 3hrs/wk.

### **260 World Literature**

Critical reading and literary analysis of major texts and genres (poetry, prose, and drama) across periods in world literature. (1)

Lecture: 3 hrs/wk.

### **301 Special Studies in Language and Literature**

Concentrated study of a special topic. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 or 250, and one other 200-level ENGL literature course.*

### **302 Southern Literature**

An in-depth survey of major Southern writers and literary trends from the mid-19th century to the present, with emphasis on such figures as Faulkner, Capote, Williams, McCullers, Flannery O'Connor, etc. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 250 and one other 200-level ENGL literature course.*

### **304 Appalachian Literature**

An in-depth survey of the rich body of literature from the Appalachian region of the United States. The course places the literature in both a cultural and historical context. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 250 and one other 200-level ENGL literature course.*

### **305 Women Writers**

A study of literature by women from Sappho to the 20th century, including all genres of writing. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 or 250, and one other 200-level ENGL literature course.*

### **308 Author Studies**

Concentrated study of a single author or the comparative study of two or three authors. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **310 Literatures of the African Diaspora**

An introduction to oral and written literatures of the African Diaspora. Places some of the world's important black writers (DuBois, Hurston, Césaire, Walcott, Morrison, etc.) in historical and cultural context, with an emphasis on patterns and genres shared across national and linguistic boundaries. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **312 Studies in the Cross-Cultural Imagination**

An in-depth examination of the acts of reading and writing across cultural boundaries. Topics of focus will vary and will be selected from among the following fields of cross-cultural literary inquiry: Ethnic American literatures, postcolonial literatures, and comparative literature. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **315 Studies in Literary Criticism**

A study of central texts in the history and theory of literary criticism from the Greeks to the present. The course will focus on the ends and means of critical discussion and writing, the nature of critical theory, and the methods and languages of critical discourse. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 or 250, and one other 200-level ENGL literature course.*

### **316 Advanced Creative Writing**

Development of writing skills in one genre (semester focus will be on fiction, poetry, or creative non-fiction), building upon introductory creative writing courses. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Either English 215 or 216, as appropriate to the selected genre for the semester.*

### **320 Basic Linguistics**

The scientific study and description of language according to the principles of modern linguistics. (1)

Lecture: 3 hrs/wk.

(Cross-listed with LING 320 and ANTH 320)

### **321 Advanced Grammar and Style**

A study of the structure of contemporary English grammar. Also explores questions of style and usage. Students analyze and diagram sentences and apply principles of grammar and style to their own and others' writing. Designed for English majors and for those preparing to teach language and communication skills. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Honors 105, INQ 110, INQ 120 or permission*

### **322 Composition Theory and Practice**

Both an advanced composition course and an introduction to theories of writing and methods of teaching writing, to include perspectives on composing processes, social contexts and purpose for writing, theories of teaching, and successful classroom approaches to creating, responding to, and evaluating composition assignments. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **323 The English Language**

A critical and historical study of the forms and usages in English speech and writing. (Recommended for those planning to teach English.) (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **330 Chaucer**

Reading and analysis of *The Canterbury Tales* and *Troilus and Criseyde*. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*

### **332 Shakespeare**

Analysis of selected plays with oral interpretation. (1)

Lecture: 3 hrs/wk.; Film Laboratory: 2-3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*  
(Cross-listed with THEA 332).

### **333 The Literature of Tudor and Stuart England (Virginia Program at Oxford University)**

A study of the literature and culture of Tudor and Stuart England through lectures and seminars, offered off-campus at Oxford University and only in conjunction with History 233. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 and one other 200-level ENGL literature course.*

### **334 Studies in Medieval Literature**

Critical study of the literature and culture of Medieval England. The course will focus on a variety of medieval texts from both the Old and Middle English periods. The course may focus on a particular theme, genre, or set of authors. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*

### **335 Studies in Renaissance Literature**

Critical study of selected works from the Renaissance period. The course may focus on a particular theme, genre, or set of authors, or form a focused survey of the period. Works will be placed in relationship to the literary, social, and historical movements of the era and to the current critical issues surrounding it. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*

### **336 Studies in Restoration and 18th-Century Literature**

Critical study of selected works from the Restoration and 18th-century period. The course may focus on a particular theme, genre, or set of authors, or form a focused survey of the period. Works will be placed in relationship to the literary, social, and historical movements of the era and to the current critical issues surrounding it. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*

### **337 Studies in Romanticism**

Critical study of selected works from the period of literary Romanticism, 1780 to 1835. The course may focus on a particular theme, genre, or set of authors, or form a focused survey of the period. Works will be placed in relationship to the literary, social, and historical movements of the era and to current critical issues. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*

### **338 Studies in Victorian Literature**

Critical study of selected works from the Victorian period. The course may focus on a particular theme, genre, or set of authors, or form a focused survey of the period. Works will be placed in relationship to the literary, social, and historical movements of the era and to the current critical issues surrounding it. (1)

Lecture: 3 hrs/wk.

*Prerequisite: English 240 and one other 200-level ENGL literature course.*

### **339 Studies in 19th-Century American Literature**

Critical study of selected works from 19th-century American literature. Course may focus on particular theme, genre, or set of authors, or form a focused survey of the period. Works will be placed in relationship to the literary, social, and historical movements of the era and to current critical issues. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 250 and one other 200-level ENGL literature course.*

### **350 Genre Studies**

Critical study of a single genre of literature, such as autobiography, epic, literary non-fiction, lyric, romance, and short fiction. Works will be placed in relationship to literary, social, and historical movements and to current critical issues. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **351 Studies in 20th-Century Fiction or Poetry**

Critical study of selected works from the 20th century. The course may focus on a particular theme, genre, or set of authors, or form a focused survey of the period. Works will be placed in relationship to the literary, social, and historical movements of the era and to the current critical issues surrounding it. (1)

Lecture: 3 hrs/wk.

*Prerequisites: ENGL 240 or 250, and one other 200-level ENGL literature course.*

### **352 Studies in Contemporary Fiction or Poetry**

Critical study of selected works of contemporary fiction or poetry. The course may focus on a particular theme, genre, or set of authors. Works will be placed in relationship to the literary, social, and historical movements and to current critical issues. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **354 Studies in Drama**

Critical study of selected works of drama. The course may focus on a particular time period and/or country of origin, or form a focused survey of the genre. Works will be placed in relationship to relevant literary, social, and historical movements and to current critical issues. (1)

Lecture: 3 hrs/wk.

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **356 Studies in Film**

Critical study of selected films. The course may focus upon a particular theme, genre, or set of filmmakers. Films will be placed in relation to social and historical movements and to current critical issues. (1)

Lecture: 3 hrs/wk; Laboratory: 3hrs/wk.

*Prerequisites: English 256.*

### **405, 406, 407 Independent Study**

Guided in-depth study of a topic in literature, language, or critical theory, or film leading to a substantial paper, series of essays, or creative project. (1/2, 1, 1/2)

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*

### **411-412 Seminar**

An intensive study of work from English, American, and Continental literature, examining both their historical settings and their interrelationships. (Required of English majors in the senior year. Students must have completed a total of 25 units before enrolling in ENGL 411. Students wishing to complete their degree program early must meet the following criteria in order to enroll in ENGL 411: (1) have completed at least 20 units, and (2) have an overall GPA of at least 3.25 and a major GPA of at least 3.5. Students who do not meet the stipulated criteria may submit an appeal to the Department Seminar Subcommittee. No credit given for one term. NOTE: Final grade for year given on a cumulative basis. (1, 1)

6 hrs/wk.

*Prerequisites: English 240, 250, and one other 200-level ENGL literature course.*

### **416 English Internship**

Experience in a field of applied writing through programs such as the Washington Semester, public relations, government communications or policy, or various aspects of the media. (1)

*Prerequisites: English 240 or 250, and one other 200-level ENGL literature course.*



### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)

## **THE ENVIRONMENTAL STUDIES PROGRAM**

*Associate Professor Cawley, Coordinator*

The Environmental Studies Program offers two interdisciplinary majors focused on environmental challenges: environmental science and environmental policy, focusing respectively on natural science and social science elements of environmental issues. Students considering either of these degrees should consult with the Environmental Studies Program Coordinator or other faculty members directly involved with the Program, as careful course planning is required.

### **Majors in the Environmental Studies Program**

#### **B.S. in Environmental Science**

This major requires 18 units

##### **A. Environmental Studies – 4 units**

ENVI 200

ENVI 305 or 307

ENVI 310

ENVI 400

##### **B. Biology – 4 units**

BIOL 120

BIOL 125

BIOL 205, 300 or 360

BIOL 210, 235, 240 or 315

##### **C. Chemistry – 3 units**

CHEM 111

CHEM 112

CHEM 270

##### **D. Physics – 1 unit**

PHYS 103 or PHYS 201

##### **E. Mathematics – 2 units**

INQ 240

MATH 112 or MATH 121

##### **F. Economics – 1 unit**

ECON 120 or ECON 121 or ECON 287

##### **G. Political Science – 2 units**

POLI 101

POLI 251

##### **H. Sociology/Religion & Philosophy – 1 unit**

SOCI 335, SOCI 337, PHIL 212 or PHIL 231

#### **B.A. in Environmental Policy**

This major requires 16 units

**A. Environmental Studies – 4 units**

ENVI 200

ENVI 400

2 units from: ENVI 305, 307, 310 (ENVI 406 or 416 may be used for one of these two units with permission)

**B. Political Science – 4 units**

POLI 101

POLI 250

POLI 251

POLI 340

**C. Biology – 2 units**

BIOL 120 or BIOL 205

BIOL 125

**D. Chemistry/Physics – 1 unit**

CHEM 111 or PHYS 103 (Or an appropriate introductory science course)

**E. Economics – 1 unit**

ECON 120, ECON 121 or ECON 287

**F. Sociology – 2 units**

SOCI 101

SOCI 337

**G. Mathematics – 1 unit**

INQ 240

**H. Electives – 1 unit from among:**

HIST 210

HIST 218

PHIL 212

POLI 221, 222, 224, 225

SOCI 335

**Minors in the Environmental Studies Program**

**Minor in Environmental Science (6 units required)**

BIOL 125

BIOL 120 or BIOL 205

CHEM 111 or PHYS 103

ENVI 200 and

**2 units from among:**

ENVI 305, 307, 310, 406 or 416 (only one unit of internship or independent study may be used)

BIOL 205, 300, 360

CHEM 270

ECON 287

POLI 251

**Minor in Environmental Policy (6 units required)**

BIOL 125

CHEM 111 or PHYS 103

ENVI 200

POLI 101 and

**2 units from among:**

ENVI 305, 307, 406, 416 (only one unit of internship or independent study may be used)

ECON 287  
SOCI 335, 337  
POLI 201, POLI 250, POLI 251

### **200 Environmental Science**

An analysis of current and emerging environmental issues/problems facing life on our planet. The extent of human impact on the biosphere will be particularly emphasized. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Biology 101 (or the equivalent) or 120 and Chemistry 101 (or the equivalent) or 111.*

### **260 Special Topics**

Examination of special topics concerning the environment. (1)

Lecture: 3 hrs/wk.

*Prerequisites: None.*

### **305 Environmental Impact Assessment**

This course will examine the development of environmental impact assessment policy in the United States and how such policy is applied to current environmental issues and problems. Examples will be taken from a variety of areas including toxicology, bioremediation, wetland protection and work/home environmental safety. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Environmental Science 200.*

### **307 Appalachian Rocks and Waters**

A systematic survey of Appalachian terrains, geology and paleoecology. This course examines foundational concepts of geology within a chronological scope associated with the Appalachian Mountain Belt. Topics include introduction to rock and mineral types, major index fossils, paleoecology, and basic landform geomorphology and rock process. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Environmental Science 200 or permission of the instructor.*

### **310 Modeling Environmental Interactions**

An introduction to computer simulation modeling for undergraduate science students with no previous computer programming experience. The focus of the course will be on modeling biological, chemical, and physical processes relevant to problems in environmental science. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Any four courses in the natural sciences, Mathematics 112 or 121, and one additional course in mathematics or statistics.*

### **400 Environment Clinic**

In this capstone course, majors in Environmental Policy and Environmental Science will work together to explore a single topic in-depth. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Major in Environmental Policy or Environmental Science and senior standing.*

### **405, 406, 407 Independent Study and Research**

Independent study or research related to the environment conducted under the supervision of an Environment Program faculty member. (1/2, 1, 1/2)

*Prerequisites: Major or minor in Environmental Policy or Environmental Science, junior or senior standing, GPA of at least 2.0, and permission of the Environment Program coordinator. Environmental Science 405 is a prerequisite for Environmental Science 407.*

### **416 Internship**

Work experience related to the environment with a government agency, non-governmental organization, or business under the guidance of an Environment Program faculty member. (1)

*Prerequisites: Major or minor in Environmental Policy or Environmental Science, junior or senior standing, GPA of at least 2.0, and permission of the Environment Program coordinator.*

### **495, 496, 497 Honors Project**

A program of independent study or research concerning the environment culminating in a written report. (1/2, 1, 1/2)

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. Environmental Science 495 is a prerequisite for Environmental Science 497.*

## **FOREIGN LANGUAGES**

*Professors Kalinoski, Ogier, Talbot; Associate Professors Flores-Silva, Scaer; Assistant Professors J. Banuelos-Montes, Carrasco, Han; Visiting Assistant Professors Newbill, Stanco; Teaching Associates Chapman, Frost, Myers; Lecturers Munsey, Kaufman; Visiting Instructors Z. Banuelos, Kumazawa; Fulbright Program - Foreign Language Teaching Assistant Ma*

A modern foreign language major consists of the completion of at least 11 units above the 202 level in one language. A major must be enrolled in at least one one-unit course in the major foreign language during the senior year.

To broaden their linguistic foundation, majors are strongly advised to engage in the study of one or more additional foreign languages. Spanish majors are encouraged to take History 272 and/or Political Science 225.

French and Spanish majors are required to complete a departmentally approved course of study abroad as part of their major. Appropriate periods of study include an Intensive Learning or May Term travel course, or a Summer, semester, or year abroad with a department-approved program such as ISEP, CREPUQ, or another university-sponsored program.

Requirements and recommendations for teacher licensure are found under each major. Minors are offered in French, German, and Spanish. Each minor consists of six units. Specific requirements for each minor are given with the course listings for French, German, and Spanish, respectively.

Regularly scheduled laboratory work is required for credit in all lower-division courses taught in a foreign language. Some advanced courses also require laboratory work.

Foreign language majors and minors should also note the courses listed under "Language" and "Linguistics." Language 341 is a methodology course for those students wishing to teach a foreign language. Language 416, the internship, is open for elective credit to all those language majors who have permission and indicate an intense interest in such work. Linguistics 320 is a basic course in the principles of how language functions. It may count toward any Foreign Language major or German minor.

Students who have never studied the language or who have studied the language in secondary school for less than three years and have not achieved competency will normally be placed at the 101 level. Students who have studied the same language in secondary school for three years and have not achieved competency will be placed at the 102 or 150 level.

Students who have studied the same language for four or more years or who have completed Advanced Placement study and have not received any competency will be placed at the 201 level. The 201 course reviews the language from the beginning. A student who successfully completes the 201 course will be given competency for the 101 and 102 elementary level courses. If a student successfully completes or receives competency for any elementary or intermediate course he or she may not take a lower-level course in the same language for credit.

## **FRENCH**

*Associate Professor Scaer; Assistant Professor Han; Visiting Assistant Professor Newbill; Teaching Associate Frost*

A major in French consists of the completion of 11 units above the 202 level in this language. Majors must complete one period of study abroad. A major must be enrolled in at least two one-unit courses in French during the senior year. Appropriate periods of study abroad include an Intensive Learning or May Term travel course, a summer, semester, or year abroad with a department-approved program such as ISEP, CREPUQ, or another university-sponsored program.

### **Majors must take:**

*One language course from the following:*

French 300

French 301

French 303

*One composition course from the following:*

French 302

French 304

*One civilization and culture course from the following:*

French 311

French 312

French 313

French 315

*A total of four literature courses; that is, a minimum of one course from four of any of the five periods of literature listed below:*

1. **Middle Ages:** 421
2. **Renaissance:** 431, 420
3. **17th and 18th Centuries:** 441
4. **19th Century:** 420, 451
5. **20th Century:** 461, 462

In addition, majors must take four French electives to be selected from the courses listed above or from any of the other 300 and 400 level French courses or Linguistics 320. However, no more than two courses taught in English may be applied toward the major.

Students who study abroad should select, in consultation with their advisors, appropriate substitutes for these requirements. With department approval, French 380 and 480 and 406 may count as courses for the above periods if appropriate to the literary period. French 420 may be counted for only one period of literature. Note that French 201 and 202 or their equivalent are prerequisites for all advanced courses in French.

Two 300-level courses are recommended before taking any 400-level literature course. The linguistics course taught in English (Linguistics 320) may be counted towards the major.

It is suggested that majors interested in:

- a) French studies in graduate school take French 301, 302, 311, 312, 315, and one literature course from each of the five periods of literature, and acquire a working knowledge of a second foreign language;
- b) Teaching French take French 341, French 301, 302, 303, 304, 311, 312 or 315, and enough courses in another subject or a second foreign language to meet licensure requirements in a second area;
- c) Business or international diplomacy take French 300, 301, 303, 304, 311 and/or 312 or 315, 330, Business Administration 211, and Political Science 231.

## **Minor in French**

A minor in French consists of six units, including:

French 201 and 202, or two elective units

French 300 or 301 or 303

French 302 or 304

French 311 or 312 or 313 or 315

And one course to be selected from any French course numbered at the 300 or 400 level.

### **101, 102 Elementary French I, II**

A study of the fundamentals with emphasis on pronunciation and aural comprehension. Oral and written work. Reading of selected materials. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

*Prerequisite: French 101, or its equivalent, is a prerequisite for 102.*

### **150 Elementary French Review**

A one semester review of the essentials of French grammar and basic vocabulary to promote listening, speaking, reading, and writing skills. Emphasis is on developing conversational skills and cultural awareness to handle topics of everyday life in French. This course is designed for students who have studied French previously, but lack sufficient preparation to enter French 201. Credit **cannot** be received for both FREN 102 and FREN 150. (1)

Lecture: 3 hrs/wk; Laboratory: 1 hr/wk.

*Pre-requisite: FREN 101 or its equivalent.*

### **201, 202 Intermediate French I, II**

A review of grammar. Selected reading, conversation, culture and composition. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

*Prerequisite: No prerequisite for French 201, but previous study of a foreign language is recommended; French 201 or equivalent is prerequisite to French 202.*

*NOTE: For any course above the 202 level, French 201-202 or the equivalent is a prerequisite. All 300 and 400 level courses are taught in French unless specifically noted otherwise. No more than two courses taught in English may be applied toward the major. The following are taught in French:*

### **300 French Conversation I**

A review of the fundamentals of speaking, listening comprehension, and reading for conversational models, with an emphasis on current, everyday speech. (1)

Lecture: 3 hrs/wk.; Laboratory 1 hr/wk.

### **301 French Conversation II**

Improving oral proficiency and listening comprehension skills using contemporary media sources. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

### **302 French Composition**

Improving command of grammar and writing skills, vocabulary building, and study of idiomatic expressions through selected readings. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

### **303 Oral Expression and Phonetics**

Theory and practice of pronunciation. Systemic analysis of the sounds of French and the techniques to produce them accurately through intonation patterns, phonetic transcription and oral practice. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

### **304 The Structure of Modern French**

Study of the forms and syntax of French. Perfecting skills in grammar, composition and translation. (1)

Lecture: 3 hrs/wk.

### **311 Building a Nation: French Civilization and Culture I**

The civilization and cultural development of France from the beginning to the French Revolution.

Attention is paid to the language, daily life, customs, art, and music of the country. (1)

Lecture: 3 hrs/wk.

### **312 A Nation Emerges: French Civilization and Culture II**

The civilization and cultural development of France from the time of the French Revolution to the 21st century. Attention is paid to the language, daily life, customs, art, and music of the country. (1)

Lecture: 3 hrs/wk.

### **313 French Life and Culture**

Panorama of the life of French-speaking people. Topics include contemporary life, customs, cuisine, government; artistic, intellectual, and cultural achievements. (Course is normally taught abroad and may be taught in English or French.) (1)

Lecture: 3 hrs/wk.

### **315 Francophone Societies**

A study of political, economic, social, literary, and cultural issues in selected contemporary Francophone societies. Three French-speaking countries, selected from Africa, the Caribbean, and the Americas, will be studied in depth. (1)

Lecture: 3 hrs/wk.; Laboratory work.

### **330 Technical and Business French**

A study of French technical and business vocabulary, as well as the proper forms of correspondence; practical experience in translating letters and other business documents. (1)

Lecture: 3 hrs/wk.; Computer work.

### **341 Methods of Teaching French**

An evaluative study of language teaching methods. Development of teaching aids and a teacher's resource book. PreK-12 levels of instruction will be presented. Assignments will be completed in French. (1)

Taught in English.

Lecture: 3 hrs/wk.

*Prerequisite: French 202. (Cross-listed as Language 341.)*

### **380 Special Studies in French Language, Literature, and Culture**

Study of a special topic, with subject or theme to be determined by the students and faculty member.

Course may be taken more than once. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

### **405, 406 Independent Study**

Guided reading and research of a particular facet of French language, literature, or culture. (1/2, 1)

*Prerequisite: By permission.*

### **416 Internship**

Field placement providing the student with practical experience in work areas in which French is applied. These areas may include embassies, government service, international business, education, industry, and the communications media. (1) May be conducted in French or English.

Lecture: 3 hrs/wk.

*Prerequisite: Permission.*

(Cross-listed as Language 416.)

### **420 The French Poetic Tradition**

A study of the languages and forms of poetry in French, based on reading and analysis of selected works from major poets and poetic movements in French literary history. This course is designed to enable students to become better readers of French poetry and to gain an understanding and appreciation of some of France's greatest poets. (1)

Lecture: 3 hrs/wk.

#### **421 The Medieval World**

Selections from French literature of the Middle Ages, with emphasis on understanding the literary, cultural, and aesthetic trends of the period. (1)

Lecture: 3 hrs/wk.

#### **431 Renaissance Vision and Voices**

Selections from French literature of the Renaissance, with emphasis on understanding the literary, cultural, and aesthetic trends of the period. (1)

Lecture: 3 hrs/wk.

#### **441 Political and Civil Order in 17th- and 18th- Century French Literature**

Moving from classicism and the Age of Absolutism to the Enlightenment and the Age of Revolution, this course studies major French authors of the 17th and 18th centuries in the context of French literary and intellectual history. (1)

Lecture: 3 hrs/wk.

#### **451 Romanticism, Realism and Naturalism in 19th- Century Literature**

Readings and discussion of major literary works of the period. (1)

Lecture: 3 hrs/wk.

#### **461 The Modern Novel and Short Story**

Major works of the 20th century including such authors as Gide, Camus, Sartre, Robbe-Grillet, and other francophone writers. (1)

Lecture: 3 hrs/wk.

#### **462 From Surrealism to the Absurd in 20th-Century Drama**

Reading and discussion of the most important works in this genre of the 20th century, including such authors as Claudel, Sartre, Camus, Ionesco, and Beckett. (1)

Lecture: 3 hrs/wk.

#### **480 Advanced Studies in French Language, Literature, and Culture**

Concentrated study of a special topic or theme not normally covered by regular course offerings. Students will be expected to read, write, and carry out research at an advanced level in French. Course may be taken more than once. (1)

Lecture: 3 hrs/wk.

*Prerequisite: French 301 or equivalent.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and Department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **GENDER & WOMEN'S STUDIES CONCENTRATION**

*Dr. Monica Vilhauer and Dr. Meeta Mehrotra, Coordinators*



Gender & Women's Studies is born of the historical effort to retrieve from obscurity the realities of women's lives and to advocate for equality for all genders in the modern world. This interdisciplinary field investigates the cultural categories of masculinity and femininity (and the various mixtures of the two) which have developed in and through complex socio-historical processes, and which face the possibility of future transformation. Gender & Women's studies courses approach the relationship of gender to sex, class, race, sexuality, ethnicity, religion and language in a critical and self-critical spirit.

Students —male or female—from any major may earn a concentration in Gender & Women's Studies by successfully completing (with a cumulative grade point average of at least 2.0) at least six units. Of these six units one must be GNDR 150. The other five units must come from at least two different disciplines from the course list below. Topics and special studies courses, marked "as appropriate" below, must be approved by the concentration advisors. In accordance with the general rules for concentrations, the six courses taken for the concentration must include at least three units which are not used to satisfy the student's major requirements. While GNDR 150 is not a prerequisite to the other courses, taking GNDR 150 as early as possible is recommended. Students should see the concentration advisor(s) for additional special topics courses, INQ courses, and independent studies that can be counted toward the concentration. No more than two INQ courses may be applied toward the concentration.

**Required Course:**

GNDR 150 Introduction to Gender & Women's Studies

**Elective Courses:** (5 from at least two disciplines)

ENGL 220 Special Topics (as appropriate)  
ENGL 301 Special Studies in Language and Literature (as appropriate)  
ENGL 305 Women Writers  
ENGL 308 Author Studies (as appropriate)  
ENGL 356 Studies in Film (as appropriate)  
HIST 215 History of Women  
HIST 235 History of Witchcraft  
HIST 262 U.S. Women's History  
HIST 290 Special Studies (as appropriate)  
HIST 310-380 Issues Courses (as appropriate)  
HIST 420-475 Research Seminars (as appropriate)  
PHIL 260 Selected Topics (as appropriate)  
RELG 290 Feminist Readings of the Bible  
RELG 312 Topics in Biblical Studies and Early Christianity (as appropriate)  
SOC 226 Intimate, Marital, and Family Relationships  
SOC 229 Sociology of Sex and Gender  
SOC 360, 361 Selected Topics in Sociology (as appropriate)  
SOC 424 Gender and Development  
SOC 429 Gender Violence

**150 Introduction to Gender & Women's Studies.**

An introduction to key questions, concepts, and debates within the field of Gender & Women's Studies and a basic grounding in the historical movements in which gender equality is fought for. The fundamentally interdisciplinary nature of Gender & Women's Studies is emphasized by regular guest lectures from faculty across the curriculum. (1)

Lecture: 3hrs/wk.

**GEOGRAPHY**

*Professor M. Miller; Senior Lecturer Strickland; Lecturers Sawyer, Tripp*

A major in geography is not offered at Roanoke College.

### **101 Introduction to Geography**

This course will examine the major research traditions of geography. The key elements to be examined include the foundation of geography, mapping, the earth science tradition, the culture-environment tradition, and the area analysis tradition. (1)

Lecture: 3 hrs/wk.

### **110 World Geography**

A geographical analysis of physical and cultural resources, patterns of human occupations, the distribution of population, and the important areas of commodity productions. (1)

Lecture: 3 hrs/wk.

### **120 Geography of North America**

A regional study of the continent based upon physical and cultural features. Consideration is given to different kinds of production in the various regions. (1)

Lecture: 3 hrs/wk.

### **130 Historical Geography**

A survey designed to explore the relationship of history and geography. A specific region of focus will be examined. (1)

Lecture: 3 hrs/wk.

### **140 Urban Geography**

A survey designed to acquaint the students with the concepts and principles of urban geography, promote a greater awareness of the spatial structure of cities and metropolitan regions, and provide the student with skills to interpret and explain locational and functional interrelationships and changes in urban areas. (1)

Lecture: 3 hrs/wk.

## **GERMAN**

*Professor Ogier; Visiting Instructor Hassell*

A major in German is not offered at Roanoke College.

### **Minor in German**

A minor in German consists of six units, including:

German 201 and 202, or two electives

German 301 or 320

German 311 or 314 or 315

Two electives to be selected from German courses at or above the 300 level or Linguistics 320.

Each minor will be individually tailored to complement the student's interests and major field of study. A period of study abroad is highly recommended.

The following courses are recommended for those seeking teaching licensure in German: for teaching methods— Language 341; for composition and conversation—German 301; for civilization and culture—German 311 or 314 or 315; for survey literature courses—German 320 and 321; for Linguistics- Linguistics 320. For placement and prerequisites at the lower level see “Foreign Languages.”

**101, 102 Elementary German I, II**

A study of the fundamental structures of German, with emphasis on oral proficiency and communication. Includes cultural topics. (1)

Lecture: 3 hrs/wk. for each; Laboratory: 1 hr/wk. for each.

*Prerequisite: German 101, or its equivalent, is a prerequisite for German 102.*

**110 German for Business**

An introduction to the spoken and written language of the German business world. It includes letter writing, grammar review, conversational practice for business situations, and intermediate-level readings on current economic and cultural topics. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

*Prerequisite: Two years of secondary school German or German 102 or the equivalent.*

**201, 202 Intermediate German I, II**

A review of grammar. Selected reading, conversation, and composition. (1, 1)

Lecture: 3 hrs/wk. for each; Laboratory: 1 hr/wk. for each.

*Prerequisite: No prerequisite, but previous study of a foreign language is recommended.*

**205 Modern German Literature in English Translation**

Reading and interpretation of representative works of the late 19th and 20th centuries. (This course is taught in English.) (1)

Lecture: 3 hrs/wk.

(For any course above the 205 level, 201-202 or the equivalent is a prerequisite.)

*The following are taught in German:*

**301 German Composition and Conversation**

Practice to improve oral proficiency and writing skills. Vocabulary building through selected readings on cultural topics. (1)

Lecture: 3 hrs/wk.; Laboratory work.

**311 German Civilization and Culture**

The historical, social, and artistic forces which have influenced German life and thought. (1)

Lecture: 3 hrs/wk.

**314 The Cultures of the German-Speaking Countries**

The development of the culture and politics of modern Austria, Germany, and Switzerland. (1)

Lecture: 3 hrs/wk.

**315 The Post-War Germanies**

An examination of the political, economic, and cultural developments in East and West Germany from the end of the World War II to the present, including the reunification. (1)

Lecture: 3 hrs/wk.; Laboratory work.

**320 Age of Goethe: Faust**

An introduction to the Age of Goethe through reading and discussion of Goethe's Faust. This course also focuses on improvement of reading skills in German. (1)

Lecture: 3 hrs/wk.

**321 Survey of German Literature**

Representative works of literature from the Enlightenment to the present. (1)

Lecture: 3 hrs/wk.

**335 German Phonetics and Phonology**

A systematic analysis of the sounds of German. Stress and intonation patterns of German speech through phonetics transcription and intensive oral practice. (1)

Lecture: 3 hrs/wk.

### **380 Special Studies in German Language, Literature, and Culture**

The study of a special topic not regularly offered. (1)

Lecture: 3 hrs/wk.

### **405, 406 Independent Study**

Guided reading and research of a particular facet of German language, literature, or culture. (1/2, 1)

Prerequisite: By permission.

### **461 20th-Century Fiction**

A study of the works of outstanding modern writers such as Thomas, Mann, Hesse, Kafka, and Grass. (1)

Lecture: 3 hrs/wk.

## **GREEK**

A major in Greek is not offered at Roanoke College. Student interested in studying the ancient world should consult the requirements for the concentration in Classics and the Ancient Mediterranean World.

### **101, 102 Elementary Ancient Greek I, II**

A study of the fundamentals of Classical Greek, with emphasis on grammar, vocabulary, and translation. Students will also read selected text in translation as an introduction to the cultural life of ancient Greece. (1, 1)

Lecture: 3 hrs/wk.; Laboratory 1 hr/wk.

*Prerequisite: Greek 101, or its equivalent, is a prerequisite for 102.*

### **201 Intermediate Ancient Greek I**

A continuing study of Classical Greek, with emphasis on more complex grammatical structures, vocabulary, and translation. Students will read selected excerpts in Greek as part of an ongoing introduction to the cultural life of ancient Greece. (1)

Lecture: 3hrs/wk.

*Prerequisite: Greek 102.*

## **HEALTH AND HUMAN PERFORMANCE**

*Associate Professors Buriak, J. Maina, M. Maina; Assistant Professors Creasy, Holbrook, M. Rearick; Teaching Associates Edmunds, Staver; Senior Lecturers Graham, Leary; Lecturers A. Angell, D. Dallas, J.D. Lynch, Meythaler, Rauch, J. Rearick and D.Stevens*

Four majors are offered by the Health and Human Performance Department: Health and Physical Education, Sport Management, Health and Exercise Science and Athletic Training.

For a Bachelor of Science degree with a major in **Sport Management** the following units of work are required in the areas of Health and Human Performance (HHP), Business Administration (BUAD) and Economics (ECON). Required courses include HHP 200, 207, 221, 223 or equivalent, 225, 301, 315, 412, 418 or 405-407; BUAD 215, 233, 254, 364; ECON 120 OR 121. All students must obtain certification in adult, infant and child CPR and standard first aid prior to their senior year. This course may be taken at Roanoke College or through an external agency. Verification of external agency certification must be presented to the department chair.

For a Bachelor of Science degree with a major in **Health and Exercise Science** the following units of work are required in the areas of Health and Human Performance (HHP) and Biology (BIOL). Required courses include HHP 200, 207, any two of the following: 203, 204, 205, or 206, 221, 223 or equivalent,

225, 301, 306, 315, 403, 411, 418 or 405-407; BIOL 230 and 260. All students must obtain certification in adult, infant and child CPR and standard first aid prior to their senior year. This course may be taken at Roanoke College or through an external agency. Verification of external agency certification must be presented to the department chair.

For a Bachelor of Science degree with a major in **Health and Physical Education** the following units of work are required in the areas of Health and Human Performance (HHP) and Biology (BIOL). Required courses include BIOL 230; HHP 200, 203, 204, 205, 206, 207, 221, 223 or equivalent, 301, 302, 305, 306, 335, 403, 404, and 409. All students must obtain certification in adult, infant and child CPR and standard first aid prior to their senior year. This course may be taken at Roanoke College or through an external agency. Verification of external agency certification must be presented to the department chair.

This program of study is required for students interested in being licensed to teach health and physical education. Other state licensure requirements are also required. (See Education section.)

The student desiring to teach health and physical education in elementary/secondary schools may secure credits to satisfy the requirements for licensure in Virginia and other states with which Virginia has reciprocity.

## **ATHLETIC TRAINING MAJOR**

The Athletic Training Education Program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program of study is designed to prepare students for BOC certification. Students will begin the course of study during their first year at Roanoke College. Entry level courses will be taken and students will begin to gain clinical experience in the athletic training room through directed observation. During the first semester of their sophomore year, students will formally apply for consideration of acceptance to the Athletic Training major. Outlined below are the course requirements, admission procedures for acceptance into the Athletic Training major and clinical requirements.

For a Bachelor of Science degree with a major in Athletic Training, the following units of work are required. They include Health and Human Performance 200, 207, 221, 223 or equivalent, 301, 306, and 403.

Once accepted into the Athletic Training major, six additional units must be taken. They include HHP 307, 308, 413, 414, 415, 416, and four clinical courses: HHP 211, 212, 213 and 214. Note that HHP 223 (or equivalent), 224, 301 and Biology 230 are prerequisite courses for admission to the Athletic Training major. Biology 260 is taken as a prerequisite or co-requisite to all upper level Athletic Training courses. HHP 307, 414, and 415 will be offered every other year starting with the academic year 2007-2008. HHP 308 and 413 will be offered every other year starting with the academic year 2006-2007. HHP 416 will be taken during the senior year.

To be considered for admission to the Athletic Training major, students must meet selection criteria established by the department of Health and Human Performance.

During the first three semesters of study, students will be required to take general education courses and athletic training courses and to accumulate 100 hours of directed observation in the Roanoke College athletic training room or at practices or games. During their third semester, students may apply for admission to the Athletic Training major. Prior to admission, students must also have completed at least 12 units. The following is a list of selection criteria for admission to the Athletic Training major.

The student:

1. Must have completed at least 12 units.
2. Must have a minimum cumulative GPA of 2.5.
3. Must have a minimum 2.5 GPA in HHP 223 (or equivalent), 224, 301, and Biol. 230.
4. Must submit formal application for Athletic Training major.

5. Must have completed 100 directed observation hours during the first three semesters.
6. Must show competency in basic athletic training skills by submitting a signed skills checklist.
7. Must provide two positive recommendations from faculty or staff of Roanoke College.
8. Must perform well in an interview with selection committee.
9. Must perform well on an entrance examination.
10. Must submit a completed technical standards form with the application for admission.

Students applying for admission to the Athletic Training program must meet all criteria listed above. Applications for admission will be submitted during the third semester (fall term only) at Roanoke College, with a deadline of October 15. Students will be notified of their status no later than January 1. Enrollment into the program will be limited. Students not accepted into the program initially may re-apply the following year.

Transfer students will be considered for admission to the Athletic Training major provided they have completed all prerequisites and have met the criteria listed above.

Athletic Training majors may incur additional costs for uniforms; travel to and from off-campus sites and to attend professional conferences.

### **Athletic Training Clinical Requirement**

The Athletic Training clinical requirement is an integral part of the educational program for athletic trainers. Once admitted into the program students must complete four clinical courses. Each semester students will be assigned to a clinical instructor and must work with the assigned instructor to complete the clinical proficiencies outlined in the Roanoke College Athletic Training Clinical Manual. In addition, students must obtain 800 hours of field experience under the direct supervision of a certified athletic trainer. The hours must be completed in an athletic training setting and may be divided between high risk sports, low risk sports, and the athletic training room. One hundred hours of directed observation during the first three semesters and 800 athletic training hours during the remaining five semesters, for a total of 900 hours, are required to complete the athletic training clinical requirement. Assessment of psychomotor skills related to athletic training will be an ongoing process throughout the four years of study. Students will also gain valuable field experience working with upper extremity sports, lower extremity sports, equipment intensive sports and general medical situations.

### **Physical Education General Education Requirement**

All students must successfully complete Health and Human Performance 160 (Fitness for Life). In addition, students must take one other lifetime activity course (Health and Human Performance 101-157). Health and Human Performance 160 is a prerequisite for all other activity classes.

Varsity athletes may receive competency in one lifetime activity but must successfully complete Health and Human Performance 160 (Fitness for Life). Students will receive competency in a varsity sport after successfully completing the varsity season at Roanoke College.

Credit for Health and Human Performance Activities will be in addition to the total units required for graduation. Enrollment for credit in health and human performance activities is limited to the number required for graduation and cannot exceed two. The College has the capacity of offering adaptive health and human performance to individuals with disabilities who must have a modified program.

The Department offers the following one-quarter unit activity courses:

- HHP 101-159    General (each 1/4 unit)
- HHP 101        Tennis
- HHP 102        Beginning Swimming

HHP 106	Badminton
HHP 107	Golf (Extra fees required)
HHP 110	Volleyball
HHP 114	Yoga
HHP 116	Tai Chi
HHP 122	Skiing (Extra fee required. Must provide own transportation [arranged in class] to ski slopes.)
HHP 123	Dance-Modern
HHP 124	Dance-Jazz
HHP 128	Karate (Must provide own attire; Completion of yellow belt can be accomplished in the course.)
HHP 130	Scuba Diving (Swimming proficiency is necessary and student may be required to take a swim test. Extra fee required. Must provide own transportation [arranged in class] for open dives. Completion of certification is possible in the course. Must provide own mask, fins, and snorkel. Open dives often scheduled on weekends.)
HHP 136	Racquetball
HHP 141	Fencing
HHP 142	Backpacking (Some Saturday and overnight weekend hikes are scheduled and required. Must provide own transportation [arranged in class]. May be required to provide own equipment.)
HHP 143	Wilderness Sports
HHP 157	Intermediate Golf (May not receive credit for this course and HHP 107. Extra green fees required.)
HHP 158	Mountain Biking (Must provide own mountain bicycle)
HHP 159	Pilates

### **160 Fitness for Life**

This course is designed to introduce the student to health and physical fitness components related to developing a healthy lifestyle. It will include physical fitness activities, health risk components, assessment, and the development of a personal health and fitness plan. (1/4)

Lecture: 3 hrs/wk.

*Prerequisite: None; this course should be taken prior to enrolling in other HHP activity courses.*

*\*Assessment of proficiency level in these courses may result in assignment to the intermediate level of the course.*

### **200 Foundations of Movement**

Enables students to understand, recognize, demonstrate, and analyze fundamental movement such as locomotor, nonlocomotor, and manipulative skills as well as related movement concepts including space awareness, effort, and relationships. (1)

Lecture: 3 hrs/wk.

*Prerequisite: None.*

### **203 Individual Activities**

Enables students to understand, demonstrate and teach individual activities including tennis, strength training, and aerobic conditioning. (1/2)

Lecture: 3hrs/wk.

*Prerequisite: None.*

### **204 Team Sports**

Enables students to understand, demonstrate, and teach team sports including soccer, volleyball, and floor hockey. (1/2)

Lecture: 3 hrs/wk.

*Prerequisite: None.*

### **205 Non-Traditional Games and Activities**

Enables students to understand, demonstrate, and teach non-traditional games and activities including Frisbee, speedball, and other unique activities in physical education. (1/2)

Lecture-Laboratory: 3 hrs/wk.

*Prerequisite: Permission.*

### **206 Fundamentals of Rhythms and Dance**

The development of skill and teaching progressions in rhythmic movement, folk, modern, social, and square and aerobic dance. (1/2)

Lecture-Laboratory: 3 hrs/wk.

### **207 Health Fitness Concepts and Applications**

Provides the prospective physical educator with the physiological, psychological and social bases for engaging in regular physical activity. The emphasis of the course will be on understanding and being able to create and apply key concepts of health related fitness and wellness. Students will be expected to develop individualized physical fitness programs, perform physical fitness assessments, develop activities to enhance physical fitness across the lifespan, and be engaged in a regular physical fitness program. (1)

Lecture: 3 hrs/wk.

*Prerequisite: HHP 160.*

### **211 Clinical I**

Clinical experiences designed to provide students with formal instruction and evaluation in Athletic Training Clinical Proficiencies. Students will work with an Approved Clinical Instructor throughout the semester and must complete 10 hours of clinical experience each week in addition to regular class meetings. The focus of this clinical will be therapeutic exercise and acute care of injury and illness. Completion of Therapeutic Modalities Basics will be required of those students who have not completed HHP 214: Clinical IV. (1/4)

Lecture: 2 hrs/wk; clinical 10 hrs/wk.

*Prerequisite: Admission to the Athletic Training major.*

### **212 Clinical II**

Clinical experiences designed to provide students with formal instruction and evaluation in Athletic Training Clinical Proficiencies. Students will work with an Approved Clinical Instructor throughout the semester and must complete 10 hours of clinical experience each week in addition to regular class meetings. The focus of this clinical will be risk management, pharmacology, nutritional aspects of injury and illness and general medical conditions. (1/4)

Lecture: 2hrs/wk; clinical 10 hrs/wk.

*Prerequisite: Admission to the Athletic Training major.*

### **213 Clinical III**

Clinical experiences designed to provide students with formal instruction and evaluation in Athletic Training Clinical Proficiencies. Students will work with an Approved Clinical Instructor throughout the semester and must complete 10 hours of clinical experience each week in addition to regular class meetings. The focus of this clinical will be injury assessment and evaluation. (1/4)

Lecture: 2hrs/wk; clinical 10 hrs/wk.

*Prerequisite: Admission to the Athletic Training major.*

### **214 Clinical IV**

Clinical experiences designed to provide students with formal instruction and evaluation in Athletic Training Clinical Proficiencies. Students will work with an Approved Clinical Instructor throughout the



semester and must complete 10 hours of clinical experience each week in addition to regular class meetings. The focus of this clinical will be therapeutic modalities, psychosocial intervention, health care administration and professional development. Completion of Therapeutic Exercise Basics will be required of those students who have not completed HHP 211: Clinical I. (1/4)

Lecture: 2 hrs/wk; clinical 10 hrs/wk.

*Prerequisite: Admission to the Athletic Training major.*

### **221 Professional Concepts and Leadership Development**

This course is designed to introduce students to the historical, philosophical, scientific, and professional aspects of health and human performance and to begin to prepare them to be leaders in the profession. (1)

Lecture: 3 hrs/wk.

### **223 First Aid and Safety**

The causes, consequences, and reduction of accidents in all areas of life. First aid procedures including prevention, recognition, and care for injury and sudden illness. (1/2)

Lecture: 3 hrs/wk. for 1 /2 of the term.

### **224 Introduction to Athletic Training**

An overview of the profession of athletic training. This course will provide an introduction to injury prevention, recognition, management, and rehabilitation. The role, duties, and responsibilities of an athletic trainer will also be discussed. (1)

Lecture: 3 hrs/wk.

### **225 Contemporary Issues in Sport Management**

A study of the sports industry through examination of problems and issues faced by contemporary sport managers. Unique characteristics of sport and resulting social and ethical responsibilities of sport managers are discussed. (1)

Lecture: 3 hrs/wk.

*Prerequisite: HHP 221 or permission.*

### **301 Personal and Community Health**

An understanding of the principles and problems of personal, school, and community health as applied to everyday living. (1)

Lecture: 3 hrs/wk.

### **302 Physical Education Methods and Materials I: PreK-7**

A progressive program of developmentally appropriate activities for children kindergarten through seventh-grade level. Recommended for PreK-7 certification. (1)

Lecture: 3 hrs/wk.; Observation in schools.

*Prerequisite: Health and Human Performance 200, 221 or permission.*

### **305 Adapted and Developmental Physical Education**

Designed to examine appropriate movement/physical education experiences for individuals who have disabling conditions. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Health and Human Performance 200, 221 or permission.*

### **306 Motor Behavior**

An examination of human motion using concepts from motor control, development and learning. Considerations for study will include basic neurophysiology and mechanics, fundamental human movement skills and their adaptation to various stimuli, and principles of motion analysis. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Biology 230 and Health and Human Performance 200 or permission.*

### **307 Practicum I: Athletic Training Administration**

This course is designed to provide students with an understanding of concepts and applications of effective athletic training administration. Topics will include organizing and managing athletic training facilities, facility design, budgeting, record keeping, etc. (1/2)

Lecture: 3 hrs/wk.

*Prerequisites: Admission to Athletic Training major; Health and Human Performance 221 or permission.*

### **308 Practicum II: Athletic Injury Prevention**

This course is designed to provide students with an understanding of techniques utilized to prevent athletic injuries. Major topics will include general medical conditions and assessment, pre-participation examinations, pharmacology, physical conditioning techniques, prophylactic taping, bracing, and padding utilized in sports medicine. (1/2)

Lecture: 3 hrs/wk.

*Prerequisites: Admission to Athletic Training major; Health and Human Performance 221.*

### **315 Behavioral Perspectives in Sport**

A study of the behavioral factors related to sport participation and coaching athletes. (1)

Lecture: 3 hrs/wk.

*Prerequisite: HHP 221 or permission.*

### **335 Coordinated School Health Programs**

This course is designed to guide prospective health educators in conceptualizing, implementing, and assessing comprehensive, coordinated school health programs in PreK-12 settings. Included will be content and experiences related to the eight component school health program model (Allensworth and Kolbe) and special topics and issues related to implementing effective programs. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Health and Human Performance 221 and 301 or permission.*

### **403 Exercise Physiology**

An examination of the human physiological response to exercise and physical work. Both acute and chronic adaptations are considered. Standard laboratory techniques are introduced and used to examine physiological change under a variety of exercise conditions. (1)

Lecture: 3 hrs/wk; Laboratory: 1.5 hrs/wk.

*Prerequisite: Biology 230 and 260 or permission.*

### **404 Physical Education Methods and Materials II: 8-12**

This course is designed to prepare students in effective curriculum design, instructional delivery, performance assessment, and classroom management specific to teaching physical education in Grades 8 - 12. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Health and Human Performance 200 and 221, or permission.*

### **405, 406, 407 Independent Study and Research**

A program of advanced intensive study and experience in health and physical education under the guidance of the departmental staff. (Admission with the approval of the faculty of the department and on the recommendation of the directing professor.) (1/2, 1, 1/2)

### **409 Health Education Methods and Materials: PreK-12**

This course is designed to prepare students in effective curriculum design, instructional delivery, performance assessment, and classroom management specific to teaching health education. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Health and Human Performance 221 and 301 or permission.*

### **411 Exercise Testing and Prescription**

An advanced, in-depth examination of exercise testing and prescription as is established by ACSM and NSCA guidelines. The course uses concepts from exercise physiology, motor behavior and health fitness and synthesizes them into a coherent framework for developing exercise training regiments for individuals of all ages and abilities, including both normal and diseased populations.(1)

Lecture: 3 hrs/wk; Laboratory: 1.5 hrs/wk.

*Prerequisite: Health and Human Performance 207 and 403 or permission.*

#### **412 Advanced Principles and Practice of Sport Management**

An in-depth analysis of the sport industry with special emphasis given to the sport manager's roles and functions. Students will develop a thorough understanding of the following principles; facilities management, event management, risk management, marketing, finances, sponsorship, communications, compliance and career preparation. This course is designed to integrate key concepts from previous courses while requiring a comprehensive understanding of the industry. (1)

Lecture: 3 hrs/wk..

*Prerequisite: Health and Human Performance 225.*

#### **413 Therapeutic Exercise in Sports Medicine**

This course is designed to provide students with an understanding of exercise for the prevention and rehabilitation of athletic injuries. It will focus on the design and implementation of functional exercise progressions utilized in the rehabilitation process. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Admission to Athletic Training major or successful completion of Biology 230 and permission.*

#### **414 Therapeutic Modalities in Sports Medicine**

This course is designed to provide students with an understanding of the use of various therapeutic modalities to treat sports related injuries. Theory supporting the use of therapeutic modalities will be studied and hands-on clinical experience will be provided. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Admission to Athletic Training major or successful completion of Biology 230 and permission.*

#### **415 Evaluation of Athletic Injuries**

This course will provide students with a thorough understanding of the procedures for evaluation of athletic injuries. Emphasis will be placed on the head, spine, and upper and lower extremities. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Admission to Athletic Training major or successful completion of Biology 230 and permission.*

#### **416 Athletic Training Internship**

An opportunity for students to gain practical work experience in an area related to athletic training. (1)

*Prerequisite: Permission of the instructor.*

#### **418 Internship**

Practical experience in a physical education related area such as corporate fitness program, youth activity league, or health/fitness club. (1)

*Prerequisite: Permission of department or faculty.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## HEALTH CARE

A major in Health Care is not offered at Roanoke College.

### Health Care Administration

*Associate Professor Kassens*

The Health Care Administration concentration is designed primarily for students interested in Hospital or Health Care Administration. A major in Health Care is not offered at Roanoke College. It is likely that most of these students will pursue (eventually or immediately after graduation) a master's degree in Hospital/Health Care Administration. Ultimately, they would be likely to work for a hospital, health maintenance organization, or public or private medical facility.

A cumulative grade point average of at least 2.0 in all prerequisite course work is required for admission to the Health Care Administration concentration. In addition, the student must earn a 2.0 cumulative grade point average in all course work required to complete the concentration. The concentration is achieved by completion of the following courses:

#### Required Courses

BUAD 215            Accounting Principles I  
BUAD 254            Organizational Behavior and Management  
BUAD 258            Information Systems I  
ECON 120            Introduction to Economics **or**  
ECON 121 & 122    Principles, Micro, Macro  
ECON 227            Health Care Economics

SOCI, PHIL 223    Ethics and Medicine  
SOCI 323            Health, Illness and Healing

In addition, students must complete one unit from Psychology 250 (Industrial-Organizational Psychology) or Business Administration 354, 416 or Sociology 416 (Internship in health care administration).

### Health Care Delivery

*Professor Weiss*

The Health Care Delivery concentration is designed for students interested in a career involving the delivery of health care services. It is anticipated that these students will pursue their education in medical school, nursing school, pharmacy school, a school of public health, or a school of allied health, or will pursue a career (with the undergraduate degree) in a health setting such as a medical clinic, counseling center, voluntary health agency, nursing home, or insurance company.

#### Required Courses

PSYC 210            Child Development **OR**  
PSYC 211            Adolescent Development **OR**  
PSYC 212            Adult Development and Aging  
PSYC 230            Abnormal Psychology  
SOCI, PHIL 223    Ethics and Medicine  
SOCI 323            Health, Illness and Healing

An internship in a health care delivery setting and  
One of the following courses:

GST 400            Senior Symposium: Perspectives on Death and Dying **OR**  
PSYC 260            Human Sexuality **OR**  
ECON 227            Health Care Economics **OR**  
SOCI 241            Introduction to Social Welfare

Recommended: An independent study (in any discipline) on a health-related topic, a second internship in a health care delivery setting, volunteer experience in a health-related setting, and additional courses related to the student's specific interests in health.

## **HISTORY**

*Professors Gibbs, Hakkenberg, M. Miller, J. Selby; Associate Professor Henold, Leeson, Willingham; Assistant Professors Genova, Wallace-Fuentes, Xu; Senior Lecturers Dent, J.D. Long, L. Miller.*

A major in history requires the completion of 11 units, at least ten of which must be in the department.

These include:

**A. One from History 125, 150 or 175**

**B. At least one unit from each of the following 200-level groups:**

1. Pre-Modern History (pre-1600) 215, 218, 221, 223, 230 231, 233, 235, 253, 290 (where appropriate)
2. Modern History (post-1600) 241, 243, 245, 246, 261, 262, 263, 265, 266, 267, 268, 269, 290 (where appropriate)
3. Non-Western History 210, 253, 254, 255, 272, 274, 281, 282, 284, 285, 290 (where appropriate)

**C. History 300: Historical Methods**

**D. At least one unit from each of the following groups:**

1. Pre-Modern History (pre-1600) 310, 315, 320, 325
2. Modern History (post-1600) 330, 335, 340, 350, 360, 365, 370, 375
3. Choice of any additional 300-level course, Independent Study, Internship, Archives Practicum, Historical Journal Editing Practicum, Museum Practicum, or Honors Project.

**E. One, one-unit seminar: History 400, 420, 430, 440, 450, 460, 470, 475, or 480**

**F. Two elective units at the 200 level or above.**

One of these units could be a non-departmental course selected with the approval of the departmental advisor. The department strongly encourages all majors to explore the possibilities of international study through the May Term, Intensive Learning, or Summer programs, and semester or year-long study abroad options.

Students planning subsequent graduate study are advised that work in at least one foreign language is very important. One's major advisor should be consulted early to determine an appropriate program of study.

### **Minor in European History**

A minor in European history requires six units, including History 125, 150, two European units at or above the 200 level, and two 300-level units (310-340).

### **Minor in U.S. History**

A minor in U.S. history requires six units, including History 175 and three units of U.S. history at or above the 200 level; at least two units from the 360-370 level courses must be included.

#### **125 World History I**

A general introduction to world civilization before ca. 1600, emphasizing a cross-cultural analysis of varying political, economic, social, and religious systems. (1)

Lecture: 3 hrs/wk.

#### **150 World History II**

A general introduction to world civilization since ca. 1600, emphasizing a cross-cultural analysis of varying political, economic, social, and religious systems. (1)

Lecture: 3 hrs/wk.

### **175 United States History**

A broad survey of the forces and structures of American history. (1)

Lecture: 3 hrs/wk.

### **210 Environmental History**

A survey which explores the relationship between history and the environment, with focus on a specific area of the world, and the connection between a people and its habitat through time. (1)

Lecture: 3 hrs/wk.

### **215 History of Women**

An introduction to the role of women in Western society from classical Athens to the present. Special focus on the personal lives and social contributions of women and their status in patriarchal societies. (1)

Lecture: 3 hrs/wk.

### **218 Introduction to Archaeology**

An introduction to the various theories of excavation and survey techniques, culture change, dating methods, and reconstruction of economic, social and religious practices or prehistoric societies. Case studies focus on both old- and new-world cultures. (1)

Lecture: 3 hrs/wk.

### **230 The Renaissance**

A study of life and thought as reflected in Italian beginnings, transalpine diffusion, and impact upon Europe. (1)

Lecture: 3 hrs/wk.

### **231 The Reformation**

The religious reformations of the 16th century and their environment: political, social, economic, intellectual, and religious. (This course counts toward major credit in the Religion-Philosophy major. History 231 and Religion 212 may not both be taken for credit.) (1) (Cross-listed as RELG 212).

Lecture: 3 hrs/wk.

### **233 History of Tudor and Stuart England**

A study of the history and society of Tudor and Stuart England, through lectures and seminars, offered off campus at the Virginia Program at Oxford University only in conjunction with English 333. (1)

Lecture: 3 hrs/wk.

### **235 History of Witchcraft**

An examination of the intellectual and legal foundations of the great European witch-hunt, as well as elite and popular concepts of magic, witchcraft, and heresy. Case studies focus on continental Europe, but also include England and New England. (1)

Lecture: 3 hrs/wk.

### **241 Modern Russia**

A survey of the cultural, social, political, and economic influences that have shaped modern Russia. Emphasis on the 19th and 20th centuries, the Soviet period, and post-Soviet developments. (1)

Lecture: 3 hrs/wk.

### **242 Modern Germany**

The course will examine the experiences of the Germans in the modern world, from 1871 the founding date of a unified Germany to the present. Issues of nationality, politics, culture and society will be examined against a backdrop of Germans' engagement with their neighbors and their own identity. (1)

Lecture: 3hrs/wk.

**243 Modern Britain**

Emphasis is on the emergence of the modern English nation under the Tudors, the evolution of constitutional and parliamentary government, the development of the British Empire and its role in world affairs in the 19th and 20th centuries. (1)

Lecture: 3 hrs/wk.

**245 History of World War II**

An introduction to the military, strategic, and diplomatic history of the Second World War. (1)

Lecture: 3 hrs/wk.

**246 The Holocaust**

An historical account and a philosophical analysis of the Holocaust, including an examination of theological reactions to this event. (1) (Cross-listed as RELG 246).

Lecture: 3 hrs/wk.

**253 Africa to 1850**

A survey of the history of Africa to 1850. This course will be an elective within either part B.1 "Pre-Modern" or B.3 "Non-Western" of the History major and within the "Core Course" requirement in the Africa and African Diaspora concentration. (1)

Lecture: 3 hrs/wk.

**254 Africa from 1850**

A survey of Africa's history from 1850 to the present. (1)

Lecture: 3 hrs/wk.

**255 History of Southern Africa**

A survey of southern Africa's history from earliest times to the present. This course will be an elective in the B.3 Non-Western category of the History major; an elective within the Non-Western Perspectives category IV of the International Relations major; and an elective within the Core Course category I of the Africa and the African Diaspora concentration. (1)

Lecture: 3 hrs/wk.

**260 The South**

This course is designed to be an overview of Southern history with a changing focus on various specific issues. (1)

Lecture: 3 hrs/wk.

**261 Civil War**

A survey designed to examine the causes of the sectional conflict, the course of events, and the consequences of the war. (1)

Lecture: 3 hrs/wk.

**262 U.S. Women's History**

A survey of the history of American women from the colonial period to the present. (1)

Lecture: 3 hrs/wk.

**263 American Frontier**

An examination of the American frontier experience. The survey ranges from the colonial wilderness through 19th century migrations to 20th-century perceptions. (1)

Lecture: 3 hrs/wk.

**264 American Presidents and the Presidency**

A study of the institution of the Presidency, and the lives of the individuals who have this office. (1)

Lecture: 3hrs/wk.

**265 American Military Traditions**

A survey of America's military experience with an emphasis upon the interrelationship of war and society. (1)

Lecture: 3 hrs/wk.

### **266 Modern American Diplomatic History**

An examination of the emergence and development of the United States as a world power, focusing on its evolving foreign policy. (1)

Lecture: 3 hrs/wk.

### **267 Victorian America**

A social history survey of Americans and their "private lives," 1880-1920. (1)

Lecture: 3 hrs/wk.

### **268 The Vietnam War**

An analysis of America's longest war that concentrates on politics and diplomacy, but examines military and social factors as well. (1)

Lecture: 3 hrs/wk.

### **269 History of Sports in America**

A study of the history of sports in America, including examination of statistical evidence, social and cultural attitudes, economic & political factors, and the impact of owners, players, spectators and fans. (1)

Lecture: 3 hrs/wk.

### **272 Latin America**

A survey of the native background, colonization, independence, the struggle for constitutional forms of government, and relations with the United States. (1)

Lecture: 3 hrs/wk.

### **274 History of the Caribbean**

This course will introduce students to the Caribbean, a narrow 2,500 mile island chain, including the Greater Antilles—home to Cuba, Jamaica, Hispaniola and Puerto Rico; the Lesser Antilles—collectively called the Virgin Islands; and two smaller island groups—the Bahamas and Curacao. We will examine the histories of these diverse islands, beginning with their central position in European colonial expansion and following their development through current events. (1)

Lecture: 3 hrs/wk.

### **281 Early East Asia**

China, Japan, and Korea through the 19th century, with emphasis on social, political, and intellectual developments. (1)

Lecture: 3 hrs/wk.

### **282 Modern East Asia**

China, Japan, and Korea since the late 19th century. (1)

Lecture: 3 hrs/wk.

### **284 Modern Middle East**

An examination of the modern political, social, religious, and economic sources of tension and growth in one of the most dynamic and unsettled regions of the world. The course focuses on trends and events in the 20th century. (1)

Lecture: 3 hrs/wk.

### **285 History of South Asia**

An introduction to the major themes and topics of South Asian culture, and history. "South Asia" includes the modern states of India, Pakistan, Bangladesh, Maldives, Nepal, Bhutan, and Sri Lanka (Ceylon). Our course will focus largely on Indian topics, but since most of the course predates the rise of nationalist states, the term South Asia is the more appropriate term. Besides addressing issues fundamental to



understanding South Asian cultures and their history, this course will also make connections to the disciplines of history, anthropology, sociology, and linguistics through discussion of methodology and interpretation. (1)

Lecture: 3 hrs/wks.

### **290 Special Studies**

Investigation of a special topic not regularly offered, with the topic determined by the history faculty. (1)

Lecture: 3 hrs/wk.

### **300 Historical Methods**

This course serves as the introduction to the discipline, examining both the theory and practice of history. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Completion of one 100-level History course, sophomore standing, and permission of the instructor.*

### **310 Issues in Ancient History**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **315 Issues in Early Middle Ages**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **320 Issues in High Middle Ages**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **325 Issues in the Renaissance and Reformation**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **330 Issues in Early Modern History**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **335 Issues in British History**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **340 Issues in Modern European History**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **350 Issues in Africa**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **360 Issues in Early America**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **365 Issues in 19th-Century America**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **370 Issues in Modern America**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **375 Issues in Latin American and Caribbean History**

An examination of issues of significance to the period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: History 300 or permission of the instructor.*

### **380 Issues in East Asian History**

An examination of issues of significance to the field. (1)

Lecture: 3 hrs/wk.

*Prerequisite: History 300 or permission of the instructor.*

### **395, 396 Henry H. Fowler Public Policy Seminar**

A seminar taught with a scholar-statesperson that deals with a policy issue of public significance. (Made possible by the Henry H. Fowler Endowment. Open to selected students with department permission.) (1, 1/2)

### **400 Research Seminar in Ancient History**

A seminar approach to selected topics for advanced students. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

### **406 Independent Study**

Supervised reading and research in a selected historical field. (1)

*Prerequisite: Permission of the history faculty.*

### **410 Research Seminar in Medieval History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

### **416 Internship**

Experience in a field of applied history, under the guidance of a member of the history faculty. (1)

*Prerequisite: Permission of the history faculty.*

### **417 Archives Practicum**

Experience in the field of archives management, under the guidance of the College archivist. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the Instructor.*

### **418 Historical Journal Editing Practicum**

An internship in the 16th-century Journal Book Review Office. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

**419 Museum Practicum**

Experience in the field of museum management under the guidance of the Salem Museum director. (1)

*Prerequisite: Permission of the instructor.*

**420 Research Seminar in Early Modern History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**430 Research Seminar in British History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**440 Research Seminar in Modern History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**450 Research Seminar in African History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**460 Research Seminar in Early American History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**470 Research Seminar in Modern American History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**475 Research Seminar in Latin American and Caribbean History**

A seminar approach to selected topics for advanced students. (1)

*Prerequisite: Permission of the instructor.*

**480 Research Seminar in Asian History**

A seminar approach to selected topics for advanced students. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

**495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

**HONORS COURSES**

*Professor Hakkenberg, Director*

Honors courses are generally available only for students accepted into the Honors Program; HNRS 301 and HNRS 412 are exceptions, as noted below. These courses replace the Intellectual Inquiry requirements for Honors students. Instructors in Honors courses may invite non-Honors students of comparable ability to enroll in any course that will enroll fewer than 20 Honors students.

**101 Plenary Enrichment Program**

A year-long series of supplemental activities including regular meetings along with lectures, presentations, performances, exhibits, community service, discussions and written assignments. Satisfies the College requirement for co-curricular learning. (1/4)

**102 Plenary Enrichment Program**

An annual series of supplemental activities, including lectures, presentations, performances, exhibits, community service, discussions and written assignments. Required each term the student studies on campus. (graded; no credit)

**105 The Freshman Experience**

An introductory seminar with an emphasis on critical thinking, oral and written communication, and research skills. Readings will vary based on instructor and class interest. (1)

*Prerequisite: Admission to Honors Program.*

**170 Values Practicum**

An inquiry into the intellectual, moral, and religious values involved in living a responsible life. A service component will be a requirement of the course. (1)

*Prerequisite: Honors 105.*

**201, 202 The Human Journey**

A two-semester humanities sequence focusing on central themes that have been the driving forces behind human civilization. Required of honors students, normally in the second year. (1, 1)

*Prerequisite: Honors 170.*

**301 Topics in Honors**

Concentrated study of a special topic (or topics) from any division of the College. Open to honors students or non-honors students with a cumulative GPA of at least 3.2. (1)

*Prerequisite: Set by the individual topic.*

**411 Contemporary Challenges**

A seminar that requires students to integrate knowledge and skills acquired previously in the Honors Program by analyzing selected contemporary and future issues. (1)

*Prerequisite: Senior standing in the Honors Program or permission.*

**412 Independent Elective/Study Project**

Directed research or creative work that results in a thesis or artistic contribution of enduring quality. This requirement can also be completed through a departmental independent study course. (This course can be taken by any student at the College who has the requisite cumulative grade point average and successfully completes an application.) (1)

*Prerequisite: Senior standing in the Honors Program or permission.*

## **INTELLECTUAL INQUIRY COURSES**

Eleven one-unit courses make up the Intellectual Inquiry Curriculum. To complete degree requirements credit must be received for the two first-year seminar courses, one Intensive Learning Course, the required number of Intellectual Inquiry Perspectives courses, and the capstone. Each INQ Perspectives course, INQ 240 – 271, explores a question from one of the following three perspectives:

**1. Western Perspectives**

Courses that address questions from this perspective explore the natural and cultural aspects of the Western world, now and in the past. For example, questions may include the following: How have our ways of life been shaped by events, cultures, and institutions from other times and places,

including the civilizations of Europe and the ancient Mediterranean and Middle Eastern worlds?  
What characterizes “the American experiment”?

## **2. Global Perspectives**

Courses that address questions from this perspective seek to make connections in the global context in which we live. For example, questions may include: What can we learn about and from the natural and cultural forces that shape societies beyond our familiar world? What do we need to know about the interaction of societies in the world community? What do we need to know about the role and impact of the United States internationally, as seen from other perspectives?

## **3. The Natural World**

Courses that address questions from this perspective examine the world of nature and our place in it. For example, questions may include: What laws govern natural phenomena, and how do we discover them? How do human beings fit into the world of nature? How does the natural world enrich human life, and what impact does human activity have on nature?

*All INQ courses emphasize critical thinking.*

### **110 Intellectual Inquiry**

Introduces students to critical thinking in higher education, taking as its starting point a focused topic in a scholarly field. Critical inquiry will be taught in the context of careful reading of important intellectual works, as well as inquiry-based writing assignments. Research and collaborative skills will also be developed in an integrative setting designed to promote a student’s journey toward a life of critical inquiry. (1)

Lecture: 3 hrs/wk.

### **120 Living an Examined Life**

Investigates questions of values, individual and communal, from the standpoint of a particular field of learning. The course will teach reasoning skills through reading, writing, and oral communication by linking key works with broader traditions of critical reflections on the good life. Students will be encouraged to explore ways in which they can use the course material for their own reflections on what it means to live well. (1)

Lecture: 3 hrs/wk.

### **177/277/377/477 Intensive Learning**

Concentrated study of a special topic from any department. Consult the Courses Offered List for a brief description of each course. Courses that can be used for major credit in a department are cross-listed with departmental offerings. (1)

*Prerequisites: Set by the instructor*

### **240 Statistical Reasoning**

Provides an inquiry-focused introduction to statistical methodologies. Questions and applications will be drawn from one of Western Perspectives, Global Perspectives, or the Natural World. Students will gain an understanding of how decision making is accomplished using modern statistical techniques. Topics include descriptive statistics, graphical methods, estimation, elementary probability, and statistical inference; students will apply the techniques of data analysis to data sets and statistical studies that address questions of the perspective. (1)

Lecture: 3 hrs/wk.

### **241 Mathematical Reasoning**

Further develops the ability to use quantitative, mathematical, and computational reasoning by exploring a problem or issue drawn from one of the three Intellectual Inquiry perspectives. Through a focused topic, students gain insight into mathematics or computer science as a mode of inquiry that, along with other ways of knowing, can deepen our understanding of Western Perspectives, Global Perspectives, or the Natural World. (1)

Lecture: 3 hrs/wk.

*Prerequisite: INQ 240 (or a Mathematics or Statistics course); sophomore standing is recommended.*

### **250 Scientific Reasoning I**

Introduces the methodologies of the natural sciences through an inquiry-focused approach to a topic drawn from one of Western Perspectives, Global Perspectives, or the Natural World. Students will explore the types of questions that science asks and how it attempts to answer them by defining and classifying information, developing models, identifying patterns, and drawing conclusions based upon data. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

### **251 Scientific Reasoning II**

Further develops the ability to use the methodologies of the natural sciences by exploring a science topic in depth. The course will be narrowly focused within science while allowing connection to a social, political, ethical, or historical issue. The course seeks to develop an appreciation for ways in which the natural sciences, along with other ways of knowing, can deepen our understanding of Western Perspectives, Global Perspectives, or the Natural World. (1)

Lecture: 3 hrs/wk.

*Prerequisite: INQ 250 (or a laboratory course in Biology, Chemistry, or Physics); sophomore standing is recommended.*

### **260 Social Scientific Reasoning**

Introduces the methodologies of the social sciences through an inquiry-focused approach to a topic drawn from one of Western Perspectives, Global Perspectives, or the Natural World. The course seeks to develop students' critical thinking skills through the exploration and application of social scientific methods. Individual sections will be taught in a particular discipline. (1)

Lecture: 3 hrs/wk.

### **270 Human Heritage I**

Develops a sense of historical perspective and the ability to use the methodologies of the humanities or the fine arts by exploring a subject drawn from the period before 1500. The course seeks to develop an appreciation for ways in which the humanities and fine arts, along with other ways of knowing, can deepen our understanding of Western Perspectives, Global Perspectives, or the Natural World. (1)

Lecture: 3 hrs/wk.

### **271 Human Heritage II**

Develops a sense of historical perspective and the ability to use the methodologies of the humanities or the fine arts by exploring a subject drawn from the period from 1500 to the present. The course seeks to develop an appreciation for ways in which the humanities and fine arts, along with other ways of knowing, can deepen our understanding of Western Perspectives, Global Perspectives, or the Natural World. (1)

Lecture: 3 hrs/wk

### **300 Contemporary Issues**

Asks students to look back on their experiences and their work in the Intellectual Inquiry Curriculum in order to make explicit, meaningful connections to contemporary issues. In addition to individual written assignments, students will work in small groups to research and develop a proposal concerning a concept, approach, or solution to a problem that will be presented in a formal defense. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Completion of all required 100-level and -200-level INQ courses.*

## **INTENSIVE LEARNING**

The objectives of the Intensive Learning Program are to foster intense and purposeful faculty-student interchange and to encourage thoughtful, creative exploration of a focused topic during a time when students are enrolled in one and only one course. The College provides a wide array of Intensive Learning opportunities, including travel courses as well as on-campus courses. All intensive learning courses

emphasize active student participation, for example, in field study, simulations, and laboratory work. The majority of these courses are offered in May, during a three-week term. All students are required to complete at least one unit of Intensive Learning to graduate from Roanoke College.

**INQ 177-277-377-477 Intensive Learning**

Concentrated study of a special topic from any department. (1)

*Prerequisites: Set by the instructor.*

Consult the Courses Offered List for a brief description of each course. Intensive Learning Courses that can be used for major credit in a department are cross-listed with departmental offerings.

## **INTERNATIONAL RELATIONS**

*Professor Warshawsky, Coordinator*

The Bachelor of Arts degree with a major in international relations is awarded to students who successfully complete 12 units from the program of study outlined below.

### **I. Core Requirements**

Students must complete each of the following:

- A. HIST 150 Towards a Global Community
- B. POLI 231 International Politics
- C. IREL 401 Seminar in International Relations
- D. One unit from:
  - BUAD 211 Introduction to Global Management
  - BUAD 333 Global Marketing
  - ECON 237 Comparative Economic Systems
  - ECON 247 Global Trade and Finance
  - POLI 333 Global Political Economy
- E. One unit from:
  - POLI 221 Comparative Political Systems: Europe
  - POLI 222 Comparative Political Systems: Asia
  - POLI 224 Comparative Political Systems: Africa
  - POLI 225 Comparative Political Systems: Latin America

### **II. Western Perspectives**

- A. American Perspectives
  - One unit from:
    - HIST 266 Modern American Diplomatic History
    - HIST 272 Latin America
    - POLI 225 Comparative Political Systems: Latin America
    - POLI 331 The Making of U.S. Foreign Policy
    - SPAN 315 Contemporary Issues: Spanish America
- B. European Perspectives:
  - One unit from:
    - GRMN 315 The Post-War Germanies
    - HIST 241 Modern Russia
    - HIST 242 Modern Germany
    - HIST 243 Modern Britain
    - HIST 340 Issues in Modern European History

POLI 221 Comparative Political Systems: Europe

### III. Global Perspectives

One unit from:

GEOG 110 World Geography  
POLI 232 International Organizations  
POLI 251 Environmental Public Policy  
POLI 252 Human Rights Policy  
RELG 130 Living Religions of the World

### IV. Non-Western Perspectives

One unit from:

HIST 254 Modern Africa  
HIST 255 History of Southern Africa  
HIST 282 Modern East Asia  
HIST 284 Modern Middle East  
POLI 222 Comparative Political Systems: Asia  
POLI 224 Comparative Political Systems: Africa

### V. Additional Perspectives

Students must select three additional units from among the previously listed courses and/or from among the following:

ANTH 101 Introduction to Cultural Anthropology  
CJUS 326 Comparative Corrections  
FREN 311 Building a Nation: French Civilization and Culture I **or**  
FREN 312 A Nation Emerges: French Civilization and Culture II **or**  
FREN 315 Francophone Societies  
GRMN 311 German Civilization and Culture **or**  
GRMN 314 Cultures of German-Speaking Countries  
HIST 245 History of World War II  
HIST 268 The Vietnam War  
IREL 340 Research Methods in Public Affairs  
SOC 324 Social Stratification  
SOC 335 Global Population Problems  
SPAN 311 Civilization and Culture: Spain **or**  
SPAN 312 Civilization and Culture: Spanish America

Students may also select an approved independent study, internship, intensive learning, honors in major or seminar unit within a relevant discipline. This must be approved by the major coordinator.

***Please note:***

1. Political Science 221 (Comparative Political Systems: Europe); Political Science 222 (Comparative Political Systems: Asia); Political Science 224 (Comparative Political Systems: Africa); and Political Science 225 (Comparative Political Systems: Latin America) may each be offered for major credit in only one of the above categories.
2. Economics 120 or Economics 121 may serve as a pre-requisite for Economics 237 (Comparative Economics Systems).
3. Economics 121 (Principles, Microeconomics) and Economics 122 (Principles, Macroeconomics) are prerequisites for Economics 247 (Global Trade and Finance).
4. Economics 120 or Economics 121 or Business Administration 215, and 233 are prerequisites for Business Administration 333.



5. International Relations 261, History 290, or Religion 270 may serve as an elective within the major whenever the specific topical focus is international and/or comparative in scope as determined by the major coordinator.
6. History 350, 375 or 380 may serve towards the major whenever the specific topical focus is international and/or comparative in scope and falls within a modern era time frame as determined by the major coordinator.

In order to best prepare themselves for international affairs– oriented careers and graduate study, majors are strongly encouraged to take, as electives, courses which may enhance communication skills (e.g., foreign languages, computer-based information systems) and to pursue study/travel abroad opportunities.

#### **261 Selected Topics in International Relations**

An examination of selected topics in international relations. (1)

Lecture: 3 hrs/wk.

#### **340 Research Methods in Public Affairs**

An examination of the research methodologies and techniques used in the study of public policy and politics. The course emphasizes both qualitative and quantitative methods. The lab focuses on statistical applications. (1)

Lecture: 3 hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: POLI 101 and at least two other courses in the major or permission.*

(Cross-listed as POLI/CJUS 340).

#### **401 Senior Seminar in International Relations**

A multidisciplinary seminar on selected topics in international relations for senior students. (1)

Seminar: 3 hrs/wk.

**Prerequisite: Permission of the instructor and senior major status.**

#### **406 Independent Study**

Supervised review of literature and a research project in the area of international relations. (1)

Prerequisite: A minimum 3.0 major GPA and both Departmental and instructor permission.

#### **416 Internship**

A supervised placement providing practical experience in an agency relating to international relations. (1)

*Prerequisite: A minimum 2.5 major GPA and both Departmental and instructor permission.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. The 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **ITALIAN**

*Teaching Associate Chapman*

A major in Italian is not offered at Roanoke College.

#### **101, 102 Elementary Italian I, II**

A basic course in grammar and syntax, with oral and written work. Reading in preparation for literary and cultural appreciation. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

#### **201, 202 Intermediate Italian I & II**

These courses build on the foundation established in the Elementary Italian sequence. Basic grammar and vocabulary are reviewed and more complex grammatical structures and advanced vocabulary are

introduced. Emphasis is placed on developing good conversational ability, reading comprehension and composition skills. In addition, elements of Italian culture are woven into the curriculum to promote a broader cultural appreciation of Italy. (1, 1)

Lecture: 3 hrs/wk; Laboratory: 1 hr/wk.

*Prerequisite: Italian 102 or the equivalent.*

### **301 Italian Conversation through Film**

An advanced conversation course designed to enable students to improve listening skills and to practice oral communication about a variety of subjects and in a variety of contexts. Contemporary Italian films will be used as the primary “text” for this course; periodic grammar review, exercises, and cultural readings will also be included. Class will be conducted entirely in Italian. (1)

Lecture: 3 hrs/wk; Laboratory/Studio: 2.5 hrs/wk.

*Prerequisite: Italian 202 or its equivalent.*

## **JAPANESE**

*Visiting Instructor Kumazawa*

A major in Japanese is not offered at Roanoke College.

### **101, 102 Elementary Japanese I, II**

A study of the fundamentals of Japanese with emphasis on pronunciation and aural comprehension. Includes oral and written work, cultural material, and selected readings. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

### **201 Intermediate Japanese I**

A review of the essentials of Japanese grammar with the introduction of advanced structures, continued development of the four essential skills, and further acquisition of vocabulary. An emphasis will be placed on cultural issues and on conversational skills to handle situations of everyday life and to increase the range of personal expression, inclusion of cultural materials. (1)

Lecture: 3 hrs/wk, Laboratory: 1 hr/wk.

*Prerequisite: Japanese 102.*

### **202 Intermediate Japanese II**

A review of the essentials of Japanese grammar with the introduction of advanced structures, continued development of the four essential skills, and further acquisition of vocabulary. An emphasis will be placed on conversational skills to handle situations of everyday life and to increase the range of personal expression, inclusion of cultural materials. The course will also include materials to foster a more sophisticated understanding of the philosophical and cultural foundation of the country. (1)

Lecture: 3 hrs/wk; Laboratory: 1hr/wk.

*Prerequisite: Japanese 201.*

## **LANGUAGE**

*Professors Kalinoski, Ogier, Talbot; Associate Professors Flores-Silva, Scaer; Assistant Professors Banuelos-Montes, Carrasco, Han; Visiting Assistant Professors Newbill, Stanco; Teaching Associates Chapman, Frost, Myers; Lecturers Hassell, Stanley; Visiting Instructors Z. Banuelos, Kumazawa; Fulbright Program - Foreign Language Teaching Assistant Ma*

A major in language is not offered at Roanoke College. The following courses may not be counted toward the French or Spanish majors.

### **105, 106 Tutorial**

A guided study of a foreign language or level of a foreign language not normally offered at the College. (1, 1)

Lecture: 2 hrs/wk.; Laboratory: 4 hrs/wk.

*Prerequisite: Permission of the department.*

### **221 English as a Second Language I**

Basic English proficiency for intermediate English as a Second Language students. Emphasis is on the appropriate use of academic vocabulary, grammatical structures, verbal expression, and cultural inferences. (1)

Lecture: 3hrs/wk.

*Prerequisites: This course is designed for students with TOEFL scores from 520 through 537. Placement to be confirmed by a Roanoke College proficiency test.*

Co-requisite: Language 222.

### **222 English as a Second Language II**

Improving English proficiency for advanced English as a Second Language students. Emphasis is on the appropriate use of academic vocabulary, complex grammatical structures, organizational patterns, and rhetorical phrases and idioms in academic texts and student writing. (1)

Lecture: 3hrs/wk.

*Prerequisite: This course is required of students placed in Language 221 and for students with TOEFL scores from 538-550. Students with TOEFL scores from 551-570 may take this course with permission of instructor. Placement to be confirmed by Roanoke College proficiency test.*

**NOTE:** Students on exchange and visiting students do not need GST 101 or 102 but may need the advanced proficiency provided by LANG 221 and 222. LANG 221 and 222 must be taken concurrently, unless the student is enrolled only in LANG 222 by virtue of a sufficiently high TOEFL score, proficiency test performance, and or recommendation of the instructor.

### **341 Methods of Teaching Foreign Languages**

An evaluative study of language teaching methods. Development of teaching aids and a teacher's resource book. Assignments will be made according to the student's major language. PreK-12 levels of instruction will be presented. (1)

Lecture: 3 hrs/wk.

Prerequisite: Permission.

(Cross-listed as French 341 and Spanish 341.)

### **405, 406 Independent Study**

Guided reading and research of a particular facet of a foreign language, literature, and culture. (1/2, 1, 1/2)

Prerequisite: Permission.

### **416 Internship**

Field placement providing the student with practical experience in work areas in which a foreign language is applied. These areas may include embassies, government service, international business, education, industry, and the communications media. (1)

(May be taken for major or minor credit.)

(Cross-listed as French 416 and Spanish 416.)

## **LATIN**

Students interested in studying the ancient world should consult the requirements for the concentration in Classics and the Ancient Mediterranean World.

### **101, 102 Elementary Latin I, II**

A study of the fundamentals of classical Latin, with emphasis on grammar, vocabulary, and translation. Students will be introduced to the cultural life of ancient Rome. (1, 1)

Lecture: 3 hrs/wk.

*Prerequisite: Latin 101, or its equivalent, is a prerequisite for Latin 102.*

### **201: Intermediate Latin I**

A continuing study of Latin, with emphasis on more complex grammatical structures, vocabulary, and translation. Students will read selected excerpts in Latin as part of an ongoing introduction to the cultural life of ancient Rome. (1)

Lecture: 3 hrs/wk.

*Pre-requisite: LATN 102.*

## **LATIN AMERICAN AND CARIBBEAN STUDIES CONCENTRATION**

*Coordinators: Jose Banuelos-Montes and Daniel Sarabia*

Students in any major interested in developing a specialization in Hispanic America, Latin America or the Caribbean may earn a concentration in Hispanic/Latin American and Caribbean Studies Concentration by successfully attaining an intermediate level of either Spanish or French. They must also complete six units as follows: two of five core courses, three electives, and a capstone Independent Study approved by the program coordinators. No more than two courses from the student's major may apply to the concentration and no more than three courses can be taken in the same discipline.

### **Core Courses**

- FREN 315 Francophone Societies
- HIST 272 Latin America
- POLI 225 Comparative Political Systems: Latin America
- SPAN 312 Civilization and Culture: Spanish America
- SPAN 315 Contemporary Issues: Spanish America

### **Electives**

- \*BUAD 333 Global Marketing
- \*ECON 247 International Trade and Finance
- ENGL 301 Special Studies in Language and Literature
- ENGL 310 Literatures of the African Diaspora
- \*ENGL 312 Studies in the Cross-Cultural Imagination
- FREN 330 Technical and Business French
- FREN 380 Special Studies in French Language, Literature, and Culture
- HIST 274 History of the Caribbean
- HIST 290 Special Studies
- HIST 375 Issues in Latin American and Caribbean History
- HIST 475 Research Seminar in Latin American and Caribbean History
- \*POLI 252 Human Rights Policy
- \*RELG 130 Living Religions of the World
- \*SOC 224 Race and Ethnicity
- SPAN 323 Introduction to Literature: Spanish America
- SPAN 330 Commercial Spanish
- SPAN 340 Area Studies in Latin America
- SPAN 380 Special Topics in Hispanic Life and Culture

Special Topics courses, Internships, IL courses, and Honors courses where applicable and with permission of the program coordinators.

\*No more than one of the electives can be general comparative world in focus (see asterisks).

## LEGAL STUDIES

*Dr. Todd Peppers, Coordinator*

The concentration allows students to draw upon a variety of different perspectives regarding the nature of law, the role of law in society, and the law as a tool of social change. The concentration is designed to give students flexibility in selecting the classes that are most relevant to their future career plans.

### **Four required courses:**

POLI 101 American National Government

CJUS/POLI 214 The Judicial Process

CJUS/POLI 213 Criminal Law **or** BUAD227 Business Law **or** POLI 312 Civil Liberties

POLI 311 American Constitutional Law **or** POLI 312 Civil Liberties

**Electives:** Choose three from the following:

BUAD 244 Labor Relations

CJUS 227 Law and Society

CJUS 325 Comparative Law Enforcement

CJUS/POLI 211 Criminal Justice

PHIL 122 Logic

POLI 214 **or** 311 **or** 312 **or** BUAD 227 (if not offered as a requirement above)

POLI 252 Human Rights Policy

PSYC 325 Social Psychology

SOCI 238 Juvenile Delinquency

SOCI 334 Criminology

CJUS/POLI/SOCI 261 - (special topics when appropriate and approved by the Public Affairs department)

POLI 395 **or** CJUS/POLI 401 **or** 406 **or** 416 **or** 495 (topics when appropriate and approved by the Public Affairs department)

Any Intensive Learning or Honors course whose topic is appropriate and approved by the Public Affairs department.

## LINGUISTICS

*Professor Ogier*

A major in linguistics is not offered at Roanoke College. Linguistics 320 may count toward a foreign language major or minor, or as an elective in the English major.

### **320 Basic Linguistics**

The scientific study and description of language according to the principles of modern linguistics. (1)

Lecture: 3 hrs/wk.

(Cross-listed as English 320 and Anthropology 320.)

## MATHEMATICS

*Professors Ingram, R. Minton, Spielman; Associate Professor C. Lee; Assistant Professors Childers, Saoub, Taylor; Teaching Associates Bauman, J. Minton, Staniunas*

The Bachelor of Science degree with a major in mathematics requires the completion of 13 units of mathematics, statistics, and computer science. These units must include Math 122, 131, 201, 331, 361, 431, 491, Statistics 202, Computer Science 120, and four additional units in mathematics or statistics numbered 300-level or above (one of these units may be Computer Science 390, Physics 350, or Physics 432).

### **Minor in Mathematics**

A minor in mathematics will require six units, including MATH 121, 122, 131, 201 and two additional units in mathematics or statistics. One of these additional units must be at the 200 level or above and the other must be at the 300 level or above.

#### **101 Contemporary Mathematics**

Theory and application of the contemporary mathematical topics of graph theory, modeling of social choice, game theory, and selected others. (1) (Not open to students who have received credit for Mathematics 112 or higher.)

Lecture: 3 hrs/wk.

#### **111 Mathematical Models for the Management Sciences**

Theory and application of several mathematical models used in business and social sciences. Topics include matrices, linear programming, functions, limits, and derivatives. (1)

Lecture: 3 hrs/wk.

(May not be taken if credit has been received for Mathematics 112 or higher.)

#### **112 Concepts and Techniques of Calculus**

Primarily for students of biology, business, economics, and the behavioral sciences. Topics include limits, differentiation and integration, optimization problems, numerous applications. (Credit cannot be received for both Mathematics 112 and 121.) (1)

Lecture: 3 hrs/wk.

#### **121 Calculus I**

The analysis of limits, derivatives, integrals and their applications for functions of one variable. (Credit cannot be received for both Mathematics 112 and 121.) (1)

Lecture: 3 hrs/wk; Laboratory: 1.5 hrs/wk.

#### **122 Calculus II**

The analysis of integrals, sequences and series, parametric equations and their applications for functions of one variable. (1)

Lecture: 3 hrs/wk.; Laboratory: 1.5 hrs/wk.

*Prerequisite: Mathematics 121.*

#### **131 Discrete Mathematics**

Set theory, number systems, formal logic, functions and relations, and an introduction to mathematical proofs. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Mathematics 121.*

#### **201 Linear Algebra**

Linear equations, matrices, vector spaces, linear mappings, determinants, quadratic forms, geometric applications. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Mathematics 122.*

### **271 Problem-Solving Seminar**

An introduction to techniques for solving mathematical problems in a seminar format. In the fall, the focus is on Putnam from a variety of mathematical fields. In the spring, the focus is on modeling problems from a variety of real world situations. Class meets for 3 hours for 6 weeks. A maximum of one unit can be carried toward graduation. (1/4)

Lecture: 3 hrs/wk.

*Pre-requisite: Mathematics 112 or higher.*

### **306 Topology**

Topological spaces, functions, mappings, connectedness, compactness, and metric spaces. (1)

Lecture: 3 hrs/wk.

(Offered on a rotating basis, not every year.)

*Prerequisites: Mathematics 131 and 201.*

### **321 Vector Calculus**

The analysis of functions of several variables, double and triple integrals, line integrals, vector fields, and surface integrals. (1)

*Prerequisite: Mathematics 122.*

### **331 Differential Equations**

Ordinary differential equations with applications. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Mathematics 201 or permission.*

### **361 Abstract Algebra**

Axiomatic study of selected algebraic structures. (1)

Lecture: 3 hrs/wk.

(Offered in 2010-2011 and alternate years.)

*Prerequisites: Mathematics 131 and 201.*

### **388 Topics in Mathematics**

Special topics in Mathematics. (1)

(Offered on a rotating basis, not every year.)

*Prerequisites: Mathematics 131 and 201 or permission.*

### **402 Numerical Analysis**

Numerical integration and differentiation, numerical methods in linear algebra, interpolation; error analysis, stability and conditioning. (1)

Lecture: 3 hrs/wk.

Offered on a rotating basis, not every year); (Cross-listed as CPSC 402.)

*Prerequisites: Mathematics 201, Mathematics 122, Computer Science 120.*

### **405, 406, 407 Independent Study and Research**

Selected topics in mathematics carried out under direction of a member of the department staff.

(Enrollment with the approval of the department.) (1/2, 1, 1/2)

### **416 Internship**

Field placement providing practical experience and training in areas in which mathematics is applied.

These areas may include industry, government agencies, educational institutions, insurance companies, and a variety of private enterprises. (Permission of the department is required.) (1)

### **431 Real Analysis**

The structure of the real number system; selected topics from metric spaces, continuity, differentiation, integration, sequences and series. (1)

Lecture: 3 hrs/wk.

(Offered in 2009-2010 and alternate years.)

*Prerequisites: Mathematics 131 and Mathematics 122*

#### **481 Complex Analysis**

The structure of the complex number system; analytic functions, conformal mappings and applications; the theory of complex integration. (1)

Lecture: 3 hrs/wk.

(Offered on a rotating basis, not every year.)

*Prerequisite: Mathematics 122.*

#### **482 Applied Differential Equations**

Series solutions of differential equations. Bessel functions, Legendre polynomials, Fourier series, partial differential equations, boundary value problems. (1)

Lecture: 3 hrs/wk.

(Offered on a rotating basis, not every year.)

*Prerequisite: Mathematics 331.*

#### **491 Math Seminar**

Advanced topics in pure and applied mathematics, presentation of math projects, topics in the history of math. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Mathematics 331.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

#### *Professor Jorgensen*

*The major at Roanoke College is being eliminated. Students may declare the major until December 1, 2010, and will be accommodated in terms of course offerings for program completion.*

A Bachelor of Science degree with a major in requires the satisfactory completion of: (1) at least 25 academic course units, of which not fewer than 17 units must be earned at Roanoke College; and (2) one year of clinical work after acceptance at an accredited hospital, for which the student will earn eight units of credit. A minimum GPA of 2.5 overall and 2.5 in the science courses taken is required. Apply for the clinical year in June of the year prior to admission. Acceptance to the clinical school is not guaranteed and is competitive. An affiliation relationship exists between Roanoke College and the program of Carillion Roanoke Memorial Hospital.

This program generally requires the equivalent of three years of college study prior to the year of clinical work. Students must fulfill the core requirements of the College, the major program which is outlined below, and sufficient elective credit to achieve the units required for graduation. A major in consists of a minimum of 12 course units as described below:



**Biology:** Biology 120 (Principles of Biology), Biology 210 (Cell Biology) or Biology 315 (Genetics), Biology 235 (Microbiology), Biology 430 (Immunology), and at least two units chosen from Biology 230 (Human Anatomy and Physiology I), Biology 260 (Human Anatomy and Physiology II), and Biology 390 (Advanced Cell Biology).

**Chemistry:** Chemistry 111-112 (General) and Chemistry 221-222 (Organic).

**Physics:** Physics 103 (Concepts).

In addition, the student is advised to take Chemistry 341 (Biochemistry) and Computer Science 120 (Fundamentals of Computer Science I) for elective credit. INQ 240 (Statistical Reasoning) is strongly recommended for satisfying part of the mathematics General Education requirement. Biology 120 is required for all Biology courses above the 100 level. For additional details, including information about scholarships and applications for clinical work, the student is advised to consult with the advisor, Dr. Darwin Jorgensen, at the earliest opportunity.

## MUSIC

*Professor J. Sandborg; Associate Professors Blaha, Marsh; Teaching Associates Bachelder, M. Sandborg; Lecturers Midkiff, Milan, Pace, Purcell, Quigley*

A Bachelor of Arts degree with a major in music requires the completion of a minimum of 11 1/2 units, including, seven units of core courses beyond Music 150, three units of applied music, and one unit of Senior Project.

### Major in Music

**Core Courses** (seven 1/2 units)

MUSC 240	Music in Culture
MUSC 251	Diatonic Harmony*
MUSC 252	Chromatic Harmony
MUSC 261	Music History I: 300 A.D. to 1750
MUSC 262	Music History II: 1750 to present
MUSC 321	Instrumentation and Score Reading (one unit)
MUSC 323	Conducting (1 /2 unit)
MUSC 350	20th-Century Theory

\*Completion of or Competency in MUSC 150: Fundamentals of Music is a prerequisite for MUSC 251/251L.

### Senior Project (one unit total)

By the middle of their junior year, students, in consultation with the music faculty, declare their area of concentration (composition, performance, research). By the end of their junior year, students propose a senior project based on these guidelines:

1. **Performance:** A public recital of no less than 60 minutes in length, with at least three style periods represented (including 20th century). Students will enroll in the appropriate applied music instruction course (one-quarter unit) during Fall of their senior year, and MUSC 420 (one half unit) and a second one quarter unit of applied music instruction during Spring of their senior year.
2. **Composition:** Creation of an original work or works, presented to the public and introduced by the composer. Students will enroll in MUSA 104 (one-quarter unit) during Fall of their senior year, and MUSC 420 (one-half unit) and MUSA 104 (one-quarter unit) during Spring of their senior year.

3. **Research:** An original thesis tailored to the student's special interests, pursued in consultation with a music faculty member, and culminating in a public lecture. Students will enroll in either MUSC 420 and 422 (two one-half unit courses) or MUSC 421 (a one unit course) during their senior year.

Students may, in consultation with the faculty, propose a senior project combining more than one area of concentration (e.g., performance and composition, performance and research, composition and research).

### **Applied Music (three units)**

Satisfactory completion of at least five one-quarter units of Applied Music Instruction (voice, keyboard, instrumental, composition), and at least seven one-quarter units of Applied Music Ensemble (chamber, choral, jazz, etc.). Individual studios or areas of concentration may require additional one quarter units of Applied Music. Descriptions of the skill levels and literature of these courses are available from the department.

#### **Applied Music Instruction**

Applied music instruction includes voice, keyboard, instrumental, and composition lessons. Each lesson is one hour per week.

#### **Applied Music Ensemble**

Roanoke College ensembles include Concert Choir, Women's Chorus, Wind Ensemble, Jazz Ensemble and various Chamber Ensembles.

### **Music Juries and Other Requirements**

Juries are held at the end of each semester. Juries are intended for monitoring the progress of students enrolled in MUSA courses, especially those who wish to concentrate in music performance.

In consultation with music faculty, all students majoring in music must demonstrate appropriate progress in their applied studies. All students majoring in music (performance, composition, research) must pass the Music Area's piano proficiency exams before graduation. These exams may be taken any time after completion of MUSC 251. Students who do not pass these exams by the end of their sophomore year may be required to enroll in MUSA 102 (applied piano instruction) until the proficiency exam can be passed.

Attendance and/or participation in department activities such as seminars, master classes and recitals are required of all Music major and minor students.

### **Minor in Music**

A minor in music consists of seven units, including the following five units of core course work: MUSC 251, 252, 261, 262; and either MUSC 240 or MUSC 321 or MUSC 350. MUSC 150 or competency is a prerequisite for MUSC 251. In addition, a minimum of four one-quarter units of applied music instruction and a minimum of four one-quarter units of applied music ensemble must be completed successfully.

#### **105 Class Voice**

Fundamentals of voice production including breath control, tone quality, range extension, flexibility, diction, and sight reading. Experiences include singing group exercises, solo songs of all styles, sight reading, and listening to recordings. (May be repeated for credit. This course does not count for credit toward the music major or minor.) (1/4)

Lecture-Laboratory: 1 hr/wk.

#### **106 Class Piano**

An introduction to functional keyboard skills including transposition, sight-reading, harmonization, and improvisation. Open to all interested students. (1/4)

**107 Studio Guitar**

Jazz and rock styles of guitar taught on beginning, intermediate, and advanced levels in a group context. Chords, solo techniques, and basic musical concepts will be covered in a one-hour, group session each week. (May be repeated for credit. This course does not count for credit toward the music major or minor.) (1/4)

Lecture-Laboratory: 1 hr/wk.

**109 Women's Chorus**

Training in a cappella and accompanied music from all style periods. (Students must participate in all performances unless excused by the director prior to the performance.) May be repeated for credit. (1/4)

Lecture: 3hrs/wk.

*Prerequisite: Entrance by audition only.*

**110 Preparation for Music**

Studies in music relating to its use in the classroom, grades one through six. (1/2)

Lecture-Laboratory: 3 hrs/wk.

**111 Concert Choir**

Training in a cappella and accompanied music from all style periods. (Students must participate in all performances unless excused by the director prior to the performance. May be repeated for credit.) (1/4)

Lecture-Laboratory: 4 hrs/wk.

*Prerequisite: Entrance by audition only.*

**112 Wind Ensemble**

Experience in band literature. (Students must participate in all performances unless excused by the instructor. May be repeated for credit.) (1/4)

Rehearsals: 3 hrs/wk.

*Prerequisite: Permission of instructor.*

**113 Jazz Ensemble**

Experience in jazz instrumental and ensemble. (Students must participate in all performances unless excused by the instructor. May be repeated for credit.) (1/4)

Rehearsals: 3 hrs/wk.

*Prerequisite: Permission of instructor.*

**114 Chamber Ensemble**

Experience in chamber music of various periods and styles. (Students must participate in all performances unless excused by the instructor. May be repeated for credit.) (1/4)

Rehearsals: 3 hrs/wk.

Prerequisite: Permission of instructor.

**121 Collegiums Museum**

Performance of selected areas of instrumental and vocal music for small groups. Emphasis will be placed on music of the Renaissance and Baroque periods. (May be repeated for credit.) (1/4)

Rehearsals: 3 hrs/wk.

*Prerequisite: Entrance by audition.*

**125 Music Appreciation**

An introduction to musical styles, forms, and genres, concentrating on the masterworks of the Western tradition. (1)

Lecture: 3 hrs/wk.

### **150 Fundamentals of Music**

Pitch and rhythm fundamentals: reading music notation, sight singing, reading chord charts. Focus on intervals, key signatures, scales, meter, and chords. (1)

Lecture: 3 hrs/wk.

### **199 Special Topics**

Ensemble/workshop experience in areas not normally offered, with the focus to be determined by the music faculty. May be repeated for credit. (1/4).

Lecture/Laboratory: hours vary.

*Prerequisite: Permission of the instructor.*

### **240 Music in Culture**

An exploration of the role of music in cultures around the world and throughout history, introducing students to the discipline ethnomusicology. Emphasis will be placed on two aspects of musical culture: non-western (World) music and American popular music. The course includes a fieldwork component. (1)

Lecture: 3 hrs/wk.

### **251 Diatonic Harmony**

Diatonic part writing; melodic harmonization and figured bass realization; basic species counterpoint; introduction to tonal theory, harmonic analysis, and composing simple forms. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Music 150 or competency.*

### **252 Chromatic Harmony**

Chromatic part writing and figured bass realization; introduction to contrapuntal techniques. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Music 251.*

### **261 Music History I: 300 A.D. to 1750**

A course of study tracing the development of styles and genres in the canon of Western music from Gregorian chant to the end of the Baroque. (1)

Lecture: 3 hrs/wk.

(Offered in alternate years or as demand indicates.)

*Prerequisites: Music 150 or permission.*

### **262 Music History II: 1750 to Present**

A continuation of Music 261, tracing the development of styles and genres in the canon of Western music from the pre-classic era to the present. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Music 261 or permission.*

### **299 Special Topics**

Selected studies in specialized performance, composition or literature/history areas. May be repeated for credit. (1/2)

Lecture/Laboratory: hours vary.

*Prerequisite: Permission of the instructor.*

### **321 Instrumentation and Score Reading**

Survey of the musical instruments and their use in composition and arranging for various ensembles. Primary emphasis on the study of clef transposition and keyboard reduction; secondary emphasis on arranging short excerpts for diverse ensembles. (1)

Lecture-Laboratory: 3 hrs/wk.

(Offered in alternate years or as demand indicates.)

*Prerequisite: Music 252.*

### **323 Conducting**

Emphasis on practice with beat patterns, cues, phrasing, dynamics, tempo, and accent. Introduction to score preparation, rehearsal techniques for vocal and instrumental groups, balance control, and error detection. (1/2)

Lecture-Laboratory: 3 hrs/wk.

(Offered in alternate years or as demand indicates.)

*Prerequisite: Music 321 or permission.*

### **339 Music Education in the Elementary School**

The objectives, content, and materials for the teaching of music in elementary school and kindergarten. (1)

Lecture: 3 hrs/wk.

(Offered in alternate years or as demand indicates.)

### **340 Music Education in Secondary School**

Curriculum making, instructional planning, and organization of the secondary school music program. Current practices and trends. (1)

Lecture: 3 hrs/wk.

(Offered in alternate years or as demand indicates.)

### **350 20th-Century Theory**

20th-century harmony and analysis, including atonal and jazz theory. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Music 252 or permission.*

### **399 Special Topics**

A course, offered in various formats, designed to give students instruction in a subject not regularly offered. May be repeated for credit. (1)

Lecture-Laboratory: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

### **405, 406, 407 Independent Study and Research**

A program of advanced intensive study and experience in music under the guidance of the area staff. The student will submit a written proposal for specific study before the beginning of Examination Week of the term prior to the term in which the work is to be done. Admission by approval of the Music Area faculty on the recommendation of the directing professor. Students are alerted to consult the departmental "Guidelines for Independent Studies/Internships" prior to initiating their planning. (1/2, 1, 1/2)

Lecture-Laboratory: Hours Vary.

*Prerequisite: Basic through advanced courses in area of interest, or by permission.*

### **416 Internship**

Practical experience working in or with an artistic organization as participant-observer, leading to the preparation of a report which describes and evaluates that organization's activities. The student will submit a written proposal for specific study before the beginning of Examination Week of the term prior to the term in which the work is to be done. Admission with approval of the faculty professor. Students are alerted to consult the departmental "Guidelines for Independent Studies/ Internships" prior to initiating their planning. (1)

Lecture-Laboratory: Hrs. vary.

*Prerequisite: Basic through advanced course in area of interest, or by permission.*

### **420, 421, 422 Senior Project**

A public presentation by the music major in one of three areas of concentration: composition, performance, or research. (1/2, 1, 1/2)

Lecture/Studio: Hours vary.

*Prerequisites: Approval of the music faculty; Music Major with senior standing.*

### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **PEACE AND JUSTICE STUDIES CONCENTRATION**

*Professor Heller, Coordinator*

The Peace and Justice Studies Concentration offers an interdisciplinary program examining conditions for bringing about a just and peaceful world order. The field of Peace and Justice Studies relates scholarship to practice and challenges those who engage in it to develop new ways of thinking and acting in the world. The concentration complements and builds upon other academic areas to prepare a student for graduate studies or service following graduation and to deepen a student's liberal arts education. Students from any major may earn a Peace and Justice Studies Concentration.

Six units are required. Of these six units one must be PEAC 201. For the other five units, students may choose from the list of electives below, and students should see the concentration coordinator for additional special topics courses, INQ courses, and independent studies that can be counted toward the concentration. While PEAC 201 is not a pre-requisite to the other courses, taking PEAC 201 as early as possible is recommended. The group of courses used to meet the requirements of the concentration must contain at least three units which are not used to satisfy the student's major requirements. Each course may fulfill no more than two requirements (major, concentration, or INQ). Each academic year before spring registration, a list of electives for the following year, including courses not listed below, will be advertised by email, posted on fliers, and available through the concentration coordinator.

### **I. Required Course (1 Unit):**

PEAC 201                      Introduction to Peace and Justice Studies

### **II. Elective Courses** (Five units, of which a maximum of three may be in one division: humanities, social sciences, or sciences. If taking PEAC 406 or PEAC 416, remaining electives must be in two or more divisions.)

CJUS/POLI 214              Judicial Process  
CJUS 326/SOCI 326        Comparative Corrections  
COMM 360                    Studies in Intercultural Communication  
ECON 237                    Comparative Economic Systems  
ECON 267                    Labor Economics  
ENGL 312                    Studies in the Cross-Cultural Imagination  
HIST 262                    U.S. Women's History  
HIST 246/RELG 246        The Holocaust  
PEAC 406                    Independent Study  
PEAC 416                    Peace and Justice Internship  
PHIL 205                    Moral Philosophy  
PHIL 206                    Social Philosophy  
PHIL 212                    Environmental Philosophy  
POLI 232                    International Organizations  
POLI 251                    Environmental Public Policy  
POLI 252                    Human Rights Policy

POLI 333	Global Political Economy
RELG 220	Christian Ethics
SOCI 215	Social Movements
SOCI 224	Race and Ethnicity
SOCI 234	Social Problems
SOCI 327	Religion and Culture
SOCI 335	Global Population Problems
SOCI 337	Environmental Sociology
SOCI 424	Gender and Development
SOCI 429	Gender Violence

### **201 Introduction to Peace & Justice Studies**

An introduction to the interdisciplinary field of peace and justice studies, examining the major areas within the field. (1)

Lecture: 3hrs/wk.

### **406 Independent Study**

Taught on an individual basis arranged by the student with the professor in the relevant academic discipline, in coordination with the director of the Peace and Justice Studies concentration. Requirements will be in line with other independent studies supervised in that academic discipline. (1)

Lecture: 3 hrs/wk.

*Prerequisite PEAC 201*; Offered in 2010-11.

### **416 Peace and Justice Internship**

Supervised by the director of the Peace and Justice Studies concentration. Requirements will be in line with other internship courses and will include the following: the student will fulfill 110 hours at the work site; gain a better understanding of workplace culture through at least 10 hours of meetings and/or equivalent with coordinator and/or fellow interns; track internship experience through a daily journal; prepare an internship report that adheres to standard writing practices and discusses the internship experience; begin a digital portfolio on the internship work; and attend an exit interview with the Internship Coordinator. (1).

Lecture: 3 hrs/wk.

*Prerequisite PEAC 201*. Offered in 2011-12.

## **PHILOSOPHY**

*Professors Hinlicky, Wisnepske, Zorn; Associate Professor Adkins; Assistant Professor Vilhauer; Teaching Associate M. Larson-Harris; Lecturer Kelly*

The study of philosophy examines the most basic questions of life. The study of philosophy prepares students for any number of career options by equipping them with a better self understanding, and developing in them the ability to reason clearly and to write convincingly.

A major in philosophy requires the completion of nine units.

These include:

**Surveys** (*none required, and only one may count toward the major*)

PHIL 101	Philosophical Inquiry
PHIL 105	Socrates, Jesus, and the Buddha

**Logic** (*at least one*)

- PHIL 122      Logic
- PHIL 215      Symbolic Logic

**History of Philosophy** (*at least two*)

- PHIL 213      Religions and Philosophies of India or
- PHIL 218      Religions and Philosophies of China,
- PHIL 251      Early Western Philosophy
- PHIL 252      Modern Western Philosophy

**Topics** (*at least two*)

- PHIL 205      Moral Philosophy
- PHIL 206      Social Philosophy
- PHIL 208      Buddhism
- PHIL 211      Philosophical Issues in the Sciences
- PHIL 212      Environmental Philosophy
- PHIL 221      Faith and Philosophy
- PHIL 222      Business Ethics
- PHIL 223      Medical Ethics (cross-listed SOCI 223)
- PHIL 231      Religion, Philosophy, and Science
- PHIL 260      Selected Topics in Philosophy
- PHIL 265      American Philosophy
- PHIL 266      Contemporary French Philosophy
- PHIL 267      Philosophy and Film

**Advanced** (*at least two*)

- PHIL 301      Plato
- PHIL 302      Aristotle
- PHIL 310      Kant's Critical Philosophy
- PHIL 315      Hegel
- PHIL 320      Nietzsche
- PHIL 321      Topics in Philosophy of Religion
- PHIL 332      Topics in Metaphysics
- PHIL 340      Topics in Contemporary European Philosophy

**Senior Thesis** (*one*)

- PHIL 410, 411, 412 (1/2), (1), (1/2) or
- PHIL 495, 496, 497 (1/2), (1), (1/2)

POLI 342 or 343 may be considered electives with approval of the department, as may some IL courses.

**Minor in Philosophy**

A minor in philosophy requires the completion of six units.

These include:

**Surveys** (*none required, and only one may count toward the minor*)

- PHIL 101,105

**Logic** (*at least one*)

- PHIL 122, 215



**History of Philosophy** (*at least one*)

PHIL 213, 218, 251, 252

**Topics** (*at least one*)

PHIL 205, 206, 208, 211, 212, 221, 222, 223, 231, 260, 265, 266, 267

**Advanced** (*at least one*)

PHIL 301, 302, 310, 315, 320, 321, 330, 332, 340

POLI 342 or 343 may be considered electives with approval of the department, as may some IL courses.

**101 Philosophical Inquiry**

An examination of philosophers' answers to the questions: What can I know? What ought I do? What might I hope for? What is it to be a human being? (1)

Lecture: 3 hrs/wk.

**105 Socrates, Jesus, and the Buddha**

A survey of the main figures in the philosophical and religious traditions of the Western world, as well as major figures in Eastern philosophy and religion. All members of the department of Religion and Philosophy will contribute lectures. (1) (Cross-listed with Religion 105)

Lecture: 3 hrs/wk.

**122 Logic**

This course seeks to develop skills in formulating and evaluating arguments. Topics covered include the nature and types of arguments, patterns of fallacious reasoning, inductive logic, and systems of deductive logic. (1)

Lecture: 3 hrs/wk.

**205 Moral Philosophy**

An investigation of the sources of, and our responses to, human dignity. Readings include slave and internment narratives, research from the social sciences, philosophical analyses, as well as debates on specific moral issues. (1)

Lecture: 3 hrs/wk.

**206 Social Philosophy**

An introduction to social-political philosophy. Taking the social nature of human life as its basic premise, this course aims to investigate who we are as political animals, what effect the social order in which we live has upon us, and what type of social order would enable us to achieve our highest human potential. The course considers such issues as: the fit ruler and the just state; the social contract; rights, laws, and duties; individual freedom; equality, diversity, and tolerance; representation and participation in political life. (1)

Lecture: 3 hrs/wk.

**208 Buddhism** This course will encounter the varieties of one of the oldest and most diverse religions as it developed in India, China, Japan, Tibet, and the United States. The course will examine Buddhism's history, philosophy, ethics, Art, literature, and ritual practices. First, we will study the life and awakening of the Buddha, how the Buddha's perception of reality transforms our relationships to ourselves and to each other, and how it directs us to live a life of compassion for others. Second, we will see how the Buddha's core teachings changed as they spread to other countries. The course is divided into three parts: Foundations, which provides an introduction to the Buddhist world view; Development, which charts the changes and elaborations made to that world view under the Mahayana philosophers; and Literature, which explores how Buddhist ideas have been expressed in poetry, the novel, and film. (1)

Lecture: 3 hrs/wk.

### **212 Environmental Philosophy**

An introduction to environmental philosophy. It will focus on philosophical questions germane to the relationship between humans and the environment. What is the environment? What is the appropriate relation between humans and the environment? Does technology help or hinder this relationship? What responsibilities do humans have with regard to natural resources? (1)

Lecture: 3hrs/wk.

### **213 Religions and Philosophies of India**

An interdisciplinary examination of the philosophical and religious traditions of South Asia. Topics include the central ideas and practices of these traditions, their historical development, their styles of reasoning, and the relationship between religion and philosophy. (1) (Cross-listed with Religion 213).

Lecture: 3 hrs/wk.

### **215 Symbolic Logic**

An introduction to truth functional logic including truth tables, and natural deduction in propositional and predicate logic. (1)

Lecture: 3 hrs/wk.

### **218 Religions and Philosophies of China**

An interdisciplinary examination of the philosophical and religious traditions of East Asia. Topics include the central ideas and practices of these traditions, their historical development, their styles of reasoning, and the relationship between religion and philosophy. (1) (Cross-listed with Religion 218).

Lecture: 3 hrs/wk.

### **221 Faith and Philosophy**

An examination of fundamental questions concerning rationality and religious belief. The course addresses questions such as whether it is rational to believe in God and whether we can know anything about God, along with different ways of answering these questions and the different views of reason and religious faith the answers imply. (1)

Lecture: 3hrs/wk.

### **222 Business Ethics**

An examination of normative questions arising from business practice and decision-making, focusing on the analysis of theories of ethical action and character, and their application to contemporary business issues. (1)

Lecture: 3 hrs/wk.

### **223 Ethics and Medicine**

An examination of ethical issues in medicine and the moral principles that might be employed to resolve ethical dilemmas. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101.*

(Cross-listed as Sociology 223.)

### **231 Religion, Philosophy, and Science**

An examination of the confrontations, compatibilities, and cooperation among religious thought, philosophy, and scientific inquiry. Topics will include philosophical analyses of science, the debates between the natural sciences and Western religion, recent developments in the social sciences, and insights from Eastern religions. (1) (Cross-listed with Religion 231).

Lecture: 3 hrs/wk.

### **251 Early Western Philosophy**

An analysis of the history of Western thought from the rise of classical philosophy with the pre-Socratic philosophers and the pivotal figures of Socrates, Plato, and Aristotle, through the evolution of classical

thought in Hellenistic philosophies and medieval thinkers such as St. Augustine and St. Thomas Aquinas. (1)

Lecture: 3 hrs/wk.

### **252 Modern Western Philosophy**

A study of the attempts of thinkers such as Bacon, Hobbes, Descartes, Leibniz, Spinoza, Locke, Hume, and Kant to come to terms with the scientific, political, and religious changes in the modern world. (1)

Lecture: 3 hrs/wk.

### **260 Selected Topics in Philosophy**

The study of a particular issue, theme, or philosopher of current interest. (1)

Lecture: 3 hrs/wk.

### **265 American Philosophy**

The development of American philosophy from the colonial period to contemporary thinkers. Particular emphasis will be placed on the pragmatist tradition, including 19th-century thinkers such as Peirce, James, and Dewey, and contemporary figures such as Quine, Davidson, and Rorty. (1)

Lecture: 3 hrs/wk.

### **266 Contemporary French Philosophy**

An examination of contemporary French thinkers, such as Michel Foucault, Gilles Deleuze, and Jacques Derrida. Each of these thinkers represents an important aspect in the development of what has been variously called post-structuralist and postmodernist discourse as it has developed in France since the May 1968 student riots. The purpose of this course is to introduce the student to some important trends in French thought since 1968. (1)

Lecture: 3 hrs/wk.

### **267 Philosophy and Film**

An introduction to the interaction between philosophy and film. Whether implicitly or explicitly every film makes claims about the nature of reality, human nature, society, politics, ethics, and aesthetics. This makes film an excellent place to explore philosophical questions. The course will focus on a director, theme, or genre of film with the goal that film and philosophy mutually explicate one another. (1)

Lecture: 3hrs/wk.

### **301 Plato**

An introduction to Plato. Through an examination of key texts in Plato's corpus, students will be exposed to major issues in Plato's thought. These include Socratic method and education, dialogue and dialectic, philosophy and rhetoric, the Forms, recollection, justice and the good life, love and friendship, art and images, myth and reason. As Plato's corpus is quite large, the particular selection of texts and the thematic lens through which these major issues in Plato are examined may vary. (1)

Lecture: 3hrs/wk.

*Prerequisite: Previous Philosophy course or permission.*

### **302 Aristotle**

A detailed examination of a topic or theme in Aristotle's philosophy. Specific topics might include logic, theory of knowledge, natural philosophy, metaphysics, psychology, ethics, or political philosophy. This course will be an elective within the "Advanced" category of the Philosophy, Religion and Christian Studies majors and minors. (1)

Lecture: 3 hrs/wk.

### **310 Kant's Critical Philosophy**

A consideration of the philosophical questions Kant addressed his answers to them, and their impact on existentialism, pragmatism and language philosophy. Focusing on his major works it considers the viability of Kant's philosophy today. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **315 Hegel**

An introduction to the thought of G.W.F. Hegel. Through examination of his central writings, students will encounter the major questions of his thought: Where does philosophy begin? Does it have any presuppositions? What is the method appropriate to philosophy? What is the purpose of philosophy? (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **320 Nietzsche**

An introduction to the thought of Friedrich Nietzsche. Through an examination of key texts in Nietzsche's corpus students will be exposed to the major questions of Nietzsche's thought. What is life? What is the relationship between art and life? Where do values come from? What is power? What is interpretation? (1)

Lecture: 3hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **321 Topics in Philosophy of Religion**

A detailed examination of a topic in the philosophy of religion. Topics for any given semester will be chosen from among such issues as the problem of suffering, the epistemology of religious belief, religious language, and philosophical theology. May be repeated for credit. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **325 Heidegger**

An introduction to the thought of Martin Heidegger. Through an examination of key texts in Heidegger's corpus students will be exposed to the major questions of Heidegger's thought. What is existence? What is time? What is death? What is truth? What is interpretation? (1)

Lecture: 3hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **332 Topics in Metaphysics**

A detailed examination of a topic in metaphysics. Topics for any given semester will be chosen by the instructor from among such issues as idealism and realism, language, the philosophy of mind, substance, and time. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **340 Topics in Contemporary European Philosophy**

A detailed examination of a topic or single thinker in 20th and 21st Century European Philosophy. Depending on the focus of the professor, topics or thinkers might include (but are not limited to): Hermeneutics; Critical Theory; Deconstruction; Gadamer; Habermas; Derrida. May be repeated for credit. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous philosophy course or permission.*

### **405, 406, 407 Independent Study and Research**

Selected topics in philosophy carried out under the direction of a member of the departmental staff. Enrollment with the approval of the department. (1/2, 1, 1/2)

### **410, 411, 412 Senior Thesis**

At the end of the junior year every major will register with a member of the department to study and write a major paper in the final year. Guidelines, requirements and dates are explained in "The Senior Thesis." (1/2, 1, 1/2)

### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper.

Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)

## **PHYSICS**

*Professor Grant, Coordinator; Associate Professor Balasubramanian; Assistant Professor Fleenor; Visiting Instructor Nelson; Teaching Associate Price; Adjunct Research Professor Sihver*

The Bachelor of Science degree with a major in physics requires the student to complete a minimum of 13 course units in physics and related fields. These must include Physics 201, 202, 203, 315, 350, 370, 390, 432, 480, and Mathematics 331. Three additional units chosen from the following with two of these three units at the 400-level: Any 400-level physics course; PHYS 205; MATH 402, 482; CPSC 120, 170; CHEM 110 or 111, 112; BIOL 120, 210. Note: Mathematics 121 and 122 are prerequisites for Physics 201 and 202, respectively.

A Bachelor of Arts degree with a major in physics requires the student to complete a minimum of 9 course units in physics and related fields. These must include: PHYS 201, 202, 203, 315, 370, 480; CHEM 110 or 111, 112 and one unit of Biology (BIOL 120 or above). Note: Mathematics 121 and 122 are prerequisites for Physics 201 and 202, respectively.

### **Minor in Physics**

The minor in Physics requires the student to complete six units of Physics and Mathematics including PHYS 201, 202, 203, 315, Math 122, plus one additional one unit PHYS course at the 300-level or above. Note: Mathematics 121 is a prerequisite for Physics 201.

### **101 Concepts**

Please see description under INQ 250. The Intellectual Inquiry Curriculum was implemented beginning fall term, 2009. Students who completed this course in an earlier term should refer to the 2007-2009 academic catalog for the course description.

### **103 Fundamental Physics I**

Algebra- and trigonometry-based introduction to classical mechanics including the equations of motion, forces, energy, momentum, rotation, fluid dynamics, waves, and sound. (May not be taken for credit by students who have completed Physics 201.) (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

### **104 Fundamental Physics II**

Algebra-and trigonometry-based introduction to thermal physics, electricity, magnetism, light, and optics. (May not be taken for credit by students who have completed Physic 202.) (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Physics 103 or Physics 201.*

### **201 Newtonian Mechanics**

Calculus-based, introduction to classical mechanics including forces and motion, energy, momentum, rotation, fluid dynamics, waves and sound. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Mathematics 121.*

### **202 Electricity and Magnetism**

Calculus-based introduction to electricity, magnetism, light, and optics including interference phenomena. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisite: Physics 201 and Mathematics 122.*

### **203 Modern Physics**

Calculus-based introduction to relativity, quantum phenomena, atomic and nuclear structure, and cosmology. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Physics 202.*

### **205 Research Experience**

A research project in physics. May be repeated for credit. (1/2)

*Prerequisite: Permission of the Department.*

### **315 Experimental Analysis**

Laboratory experiments related to advanced and modern topics in physics. Data analysis, error propagation, and written and oral scientific presentation skills. (1)

Lecture: 3 hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: Physics 202.*

### **350 Electromagnetic Theory**

Developed examination of electrostatics, potential theory, dielectric media, magnetostatics, and an introduction to Maxwell's equations. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Physics 202.*

### **370 Thermal Physics**

Examination of the thermal behavior of systems, equations of state, phase transitions, and elements of continuum and statistical approaches.(1)

Lecture: 3 hrs/wk.

*Prerequisite: Physics 202.*

### **390 Quantum Mechanics**

Introductory examination of the wave formulation and notation in solving the time-dependent and time-independent Schrödinger equations including reflection/transmission, barriers, and the hydrogen atom. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Physics 202.*

### **405, 406, 407 Independent Study in Physics**

A research project in physics that results in the production of a scholarly paper and an oral presentation.

May be repeated for credit. (1/2, 1, 1/2)

*Prerequisite: Permission from instructor.*

### **416 Internship**

Field experience in a physics-related area such as health physics in an appropriate industry or business.

*Permission of the department. (1)*

### **432 Theoretical Mechanics**

Developed examination of central force motion, coupled systems, rigid body motion, and the Lagrangian and Hamiltonian formulations. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Physics 202 and Mathematics 331.*

#### **452 Biophysics**

Examination of the role of physical theory, models, and experimental techniques in the study of biological systems. Topics include biomechanics, membrane transport, electromagnetic properties of cells and organisms, and medical instrumentation. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Physics 202.*

#### **456 Astrophysics**

An introduction to the foundational theories and unifying nature of the subject of astrophysics. Principles to be studied include interstellar and radiative theory, stellar formation and evolution sequence, galaxy observations and environments, and cosmology. (1)

Lecture: 3hrs/wk.

#### **457 Physics of Materials**

An introduction to the physics of materials including the collective behavior of atoms and molecules, crystal structure, mechanical, electrical, thermal, magnetic properties of metals, electronic materials, composites, and nanostructures. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Physics 202.*

#### **458 Optics and Spectroscopy**

A theoretical introduction to optical phenomena which includes wave motion, geometric principles, polarization, and inference. A significant amount of the course will also be dedicated to the principles of spectroscopic physics, including both optical and non-optical feature generation. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Physics 202.*

#### **480 Senior Seminar: Physics Capstone**

Advanced study in selected topics in a seminar format. Scientific presentation skills and review of all areas of physics. (1)

*Prerequisite: Permission.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisite: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

#### **499 Special Topics**

A course offered in various formats designed to give students instruction in a subject not regularly offered. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission of the instructor.*

## **POLITICAL SCIENCE**

*Professors Rubongoya, Warshawsky, Wilson; Associate Professor Peppers, Assistant Professors Brown, Leeb; Visiting Professor of Public Affairs Mihalache-O'Keef; Teaching Associate Scott; Lecturers Clayton, Kirby; Adjunct Associate Professor Joyner*

The Bachelor of Arts degree with a major in political science is awarded to students who successfully complete 12 units from the program of study outlined below:

**I. Core Requirements** (students must complete each of the following):

- A. 101 (American National Government)
- B. 231 (International Politics)
- C. 250 (Public Policy)
- D. 340 (Public Affairs Research Methods)
- E. 401 (Senior Seminar)

**II. Institutions** (at least 1 from category):

- A. 201 (State and Local Government)
- B. 202 (American Political Behavior)
- C. 204 (Mass Media)
- D. 205 (American Political Institutions)
- E. 214 (Judicial Process)
- F. 232 (International Organizations)
- G. 301 (Public Administration)

**III. Comparative Politics** (at least 1 from category)

- A. 221 (Comparative Political Systems: Europe)
- B. 222 (Comparative Political Systems: Asia)
- C. 224 (Comparative Political Systems: Africa)
- D. 225 (Comparative Political Systems: Latin America)

**IV. Applied Policy** (at least 1 from category)

- A. 240 (Public Opinion Polling)
- B. 251 (Environmental Public Policy)
- C. 252 (Human Rights Policy)
- D. 331 (U.S. Foreign Policy)
- E. 333 (Global Political Economy)

**V. Political Theory** (at least 1 from category)

- A. 342 (Western Political Theory)
- B. 343 (American Political Theory)

**VI. Public Law** (at least 1 from category)

- A. 211 (Criminal Justice)
- B. 213 (Criminal Law)
- C. 311 (American Constitutional Law)
- D. 312 (Civil Liberties)

At least four courses at the 300 or above level are required to complete the major.

**Minor in American Politics**

A minor consists of six units:

Political Science 101 and 201; 311 or 312; three additional units (with no more than one at the 200 level) from among 202, 204, 205, 211, 213, 214, 240, 250, 251, 301, 331, 340, 343.

With departmental permission, courses from among Political Science 260-262, 395-396, 401, 406, and 416 may be substituted when they include American political topics.



## **Minor in Foreign Politics**

A minor consists of six units:

Political Science 231 and 331; one of 221, 222, 224, or 225; three additional units from among 232, 251, 252, 333, 340, 342. At least three units must be above the 200 level.

With departmental permission, courses from among Political Science 260-262, 395-396, 401, 406, 416 and 495-497 may be substituted when they include international political topics.

### **101 American National Government**

An introduction to constitutional principles, institutions, functions, and processes of politics and government in the United States. (1)

Lecture: 3 hrs/wk.

### **201 State and Local Government**

An examination of the politics, structures, and policies of American state and local governments. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **202 American Political Behavior**

An analysis of the political process in the United States, including political parties, interest groups, public opinion, elections, and voting behavior. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **204 Mass Media and American Politics**

An examination of the news and entertainment media, print, web, and broadcast, and their effects on government, elected officials, and society. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **205 American Political Institutions**

An examination of the power, restraints, and politics of the Presidency, the Congress and the Supreme Court. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **211 Criminal Justice**

An introductory analysis of the criminal justice system in the United States, its structure, processes, and problems. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission. (Cross-listed as Criminal Justice 211)*

### **213 Criminal Law**

A study of the criminal justice system at work in the courtroom setting, emphasizing the relationship between substantive criminal law, criminal procedure, and the rules of evidence. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One course in criminal justice (Political Science 101 or 211 or Sociology 238 or 334). (Cross-listed as Criminal Justice 213)*

### **214 The Judicial Process**

An exploration of the politics of the American judicial system. This includes such topics as the structure of courts, selection of judges, actors who participate in the judiciary, judicial behavior, and the civil and criminal varieties of courts. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

(Cross-listed as Criminal Justice 214)

**221 Comparative Political Systems: Europe**

The government and politics of Great Britain, France, Germany, Russia, and selected other European states as well as the operations of the European Union. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

**222 Comparative Political Systems: Asia**

The government and politics of Japan, China, and Indonesia and ASEAN. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

**224 Comparative Political Systems: Africa**

The government and politics of Sub-Saharan African politics. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

**225 Comparative Political Systems: Latin America**

The government and politics of Latin America, including Central America and the Caribbean. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

**231 International Politics**

An examination of the nature of the international political system, the perspectives and behaviors of nation-states, and the role and influence of both intergovernmental organizations and non-governmental actors. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

**232 International Organizations**

An examination of global, regional, and functional organizations. The nature and functions of both governmental and non-governmental institutions will be discussed. A model United Nations Security Council simulation exercise is an integral course component. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Permission.*

**240 Public Opinion Polling**

Supervised participation in a large scale survey research project. Course includes interviewing, data analysis, and report writing. (1) (Cross-listed as COMR-240)

Prerequisite: Permission.

**250 Public Policy**

An examination of the scope, nature and outcomes of the American public policy decision-making process. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101.*

**251 Environmental Public Policy**

An examination of environmental policy-making and environmental issues at local, national, and international levels. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or Environmental Science 200 or permission.*

**252 Human Rights Policy**

An introduction to the principles of human rights from a comparative policy-making perspective. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **260, 261, 262 Selected Topics in Political Science**

Student research, reports, and discussion on selected problems and themes. (1/2, 1, 1/2)

Lecture: 3 hrs/wk.

### **301 Public Administration**

A survey of the role of public administration in the modern state, with emphasis on the development of bureaucracy, organizational theory, and management functions. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **311 American Constitutional Law**

An introduction to decision-making in the Supreme Court and its past and present roles in American government. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Political Science 101 and one additional course in American politics or permission.*

### **312 Civil Liberties**

An examination of Supreme Court decisions dealing with the Bill of Rights with emphasis on the First Amendment.

Lecture: 3 hrs/wk.

*Prerequisites: Political Science 101 and one additional course in American politics or permission.*

### **331 The Making of U.S. Foreign Policy**

An introduction to the foreign policy process of the United States. Selected issues in United States foreign policy in The Cold War and post – Cold War eras will also be analyzed. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **333 Global Political Economy**

A introduction to the relationship between politics and economics at the theoretical and policy levels. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 231.*

### **340 Research Methods in Public Affairs**

An examination of the research methodologies and techniques used in the study of public policy and politics. The course emphasizes both qualitative and quantitative methods. The lab focuses on statistical applications. (1) (Cross-listed as CJUS and I.R. 340).

Lecture: 3 hrs/wk; Laboratory: 3 hrs/wk.

*Prerequisite: POLI 101 and at least two other courses in the major or permission.*

### **342 Western Political Theory**

A study of western political theory from Plato to Rawls, emphasizing the modern period. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Political Science 101 or permission.*

### **343 American Political Theory**

A survey of American political theory from colonial precursors to the present. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Political Science 101 or permission.*

### **395, 396 Henry H. Fowler Public Policy Seminar**

A seminar taught with a scholar-statesperson that deals with a policy issue of public significance. (Made possible by the Henry H. Fowler Endowment. Open to selected students with department permission.) (1, 1/2)

#### **401 Seminar in Public Policy**

Supervised review of a literature and research project in the discipline of political science. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Permission of the instructor; senior major status; Political Science 250 and Political Science 340.*

#### **406 Independent Study**

Supervised reading and research which results in a monograph on a particular aspect of political science. (1)

*Prerequisite: A minimum of 3.0 major GPA and both Departmental and instructor permission.*

#### **416 Public Internship**

Practical experience in working with a public agency or non-governmental organization as a participant-observer, leading to the preparation of an experience report which describes and evaluates that agency's activities. (1)

*Prerequisites: A minimum of 2.5 major GPA and Departmental and instructor permission.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **PSYCHOLOGY**

*Professors C. Camac, Early, J. Lynch, Pranzarone; Associate Professors Buchholz, M. Camac, Whitson; Assistant Professors Greene, Nichols; Teaching Associate Allen*

It is strongly recommended that students declaring a major in psychology have at least a 2.0 GPA in psychology at the time of the declaration of the major. Students who have taken three or more psychology courses and have not achieved at least a 2.0 GPA in psychology should seriously reconsider their intention to major in psychology.

### **Bachelor of Arts in Psychology**

Students pursuing the Bachelor of Arts degree with a major in psychology are required to complete a minimum of 12 units, including 101, 204, 205, 450 and one unit chosen from 420, 430 or 440. Of the remaining seven units, two units must be selected from Group A and two from Group B:

**Group A:** Development-Abnormal-Learning: 210 or 211 or 212 or 215; 230, 290.

**Group B:** Personality-Social-Psychology-Cognitive: 315 or 325, 330, 340.

The final three units required may be selected from all Psychology courses offered except only one Internship or one Research Practicum or one Special Topics course unit or one INQ 260 PSYC unit may be applied to the major. Honors Project (495, 496, 497) may not count as one of the required electives in the major. BIOL 320 (Animal Behavior) may be applied to the major. Recommended: BIOL 101. PSYC 210 and 211 may not be counted towards the major if 215 has been taken. Students wishing to complete the Concentration in Human Development should take 210 and 211. It is recommended that students complete at least two 200-level psychology courses before enrolling in courses numbered 300 or higher.

## **Bachelor of Science in Psychology**

Students pursuing a Bachelor of Science degree in Psychology are required to complete a minimum of 13 units in psychology and four additional math and science units including Biology 120 and INQ 240. The psychology courses include 101, 204, 205, 290, 450 and two units chosen from 300, 420, 430 and 440. With the permission of the department, 1 unit of an empirically based independent study (406 or 405 and 407) or 1 unit of Honors Project (496 or 495 and 497) may be substituted for one unit of Research Seminar (420, 430, or 440). Psychology 300 and an Independent Study or Honors project will not satisfy the Research Seminar requirement. In addition, three units must be selected from Group B, and three Psychology electives may be chosen from all Psychology courses offered except only one Internship or Research Practicum or Special Topics, or INQ 260 PSYC unit may be applied to the major. Psychology 210 and 211 may not be counted towards the major if 215 has been taken. Students wishing to complete the Concentration in Human Development should take 210 and 211.

**Group B:** Personality-Social-Physiological-Cognitive: 315, 325, 330, 340.

The four additional math and science units must include Biology 120, INQ 240 and two units from Group C:

**Group C:** Biology 125, 210, 230, 260, 320; Chemistry 111, 112, 221, 222, 341; Computer Science 120, 170, INQ 241(CPSC); Mathematics MATH 111 or higher; Physics 103, 104; Statistics 202, 301, 403, 404.

(Note that many of these courses are prerequisites to others; some do not receive credit if a higher-level course is taken. These restrictions apply.)

### **Enrollment in Internship, Research Practicum, Independent Study**

For enrollment in Internship, Research Practicum, and/or Independent Study, a written application must be submitted to the department chairperson prior to registration. The department faculty accepts or rejects the application. A student may not register for Internship, Research Practicum, or Independent Study without an approved proposal. Guidelines for preparation of applications can be found in the Handbook for Psychology Majors.

## **Minor in Psychology**

The Psychology minor requires six courses in Psychology: two designated courses and four chosen from the Psychology curriculum. Requirements include:

PSYC 101	Introduction to Psychology
PSYC 205	Research Methods in Psychology <b>or</b>
SOCI 251	Research Methods (for students majoring in Sociology) <b>or</b>
CJUS/POLI/I.R. 340	Research Methods (for students majoring in Criminal Justice, Political Science or International Relations)

Four courses chosen from the psychology course offerings excluding PSYC 316/317 (Internship), PSYC 318/319 (Research Practicum) and PSYC 405/406/407 (Independent Study). Two of the four courses must be at the 300 level or higher. Only one PSYC 240 (Special Topics) course may be applied to the Minor.

## **Concentration in Human Development**

*Professor Jan Lynch, Coordinator*

The Concentration in Human Development has two purposes: (1) to provide focused coursework for students who plan to pursue a post-graduate degree in counseling psychology or school psychology, and (2) to prepare students for entry-level positions in a variety of careers that involve designing and/or implementing programs for children, adolescents, and/or the elderly.

To apply for the concentration, students must have a GPA of 2.0 or higher in the courses completed at the time of application. Successful completion of the following seven courses is required:

PSYC 101	Introduction to Psychology*
PSYC 205	Research Methods in Psychology <b>or</b>
SOCI 251	Research Methods <b>or</b>
CJUS/POLI/I.R. 340	Public Affairs Inquiry
PSYC 210	Child Development
PSYC 211	Adolescent Development
PSYC 212	Adult Development and Aging

Two courses chosen from PSYC 300 (Test and Measurements), PSYC 315 (Personality), PSYC 316 (Internship), PSYC 325 (Social Psychology), and PSYC 340 (Cognition)

*Students who have competency in PSYC 101 will take only six courses for the concentration.*

Psychology 101 is a prerequisite for all other courses in the department. Some courses have additional prerequisites, which are indicated in the course descriptions that follow.

### **101 Introduction to Psychology**

An overview of the field of psychology with emphasis on basic processes in human behavior. (This course is a prerequisite for all other courses in the department.) (1)

Lecture: 3 hrs/wk.

### **204 Quantitative Methods in Psychology**

An examination of techniques used by psychologists to measure behavior and to analyze and interpret the data. The course includes an introduction to computer data analysis. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 1/2 hrs/wk.

### **205 Research Methods in Psychology**

An examination of the research methods used in the fields of psychology. Topics include introductions to and evaluations of observational, relational and experimental research methods and designs. Ethics and research, communication and research, the development of research ideas and the reliability and validity of research are also examined. (1)

Lecture: 3hrs/wk.

### **210 Child Development**

Behavior and development of the child from conception to puberty. (1) (Psychology 210 and 211 may not be counted towards the major if Psychology 215 has been taken. Students wishing to complete the Concentration in Human Development should take 210 and 211).

Lecture: 3 hrs/wk.

### **211 Adolescent Development**

Behavior and development of the individual from puberty to early adulthood. (1) (Psychology 210 and 211 may not be counted towards the major if Psychology 215 has been taken. Students wishing to complete the Concentration in Human Development should take 210 and 211).

Lecture: 3 hrs/wk.

### **212 Adult Development and Aging**

Behavior and development of the individual from early adulthood to old age. (1)

Lecture: 3 hrs/wk.

### **215 Child & Adolescent Development**

An examination of development from conception through adolescence. Physical, cognitive and socioemotional development will be discussed in the context of psychological theories, research, current applications and historical events. Psychology 215 may not be counted towards the major if 210 or 211

has been taken. Students wishing to complete the Concentration in Human Development should take 210 and 211. (1)

Lecture: 3hrs/wk; Laboratory 1 ½ hrs/wk.

### **225 Cross-cultural Psychology**

The study of human behavior and mental processes, including both differences and consistencies, across different cultures. The aim is to examine systematic relations between cultural factors and behavior, as well as the generalizability of psychological principles across cultures.

Lecture: 3 hrs/wk.

*Prerequisite: Psychology 101 or permission.*

### **230 Abnormal Psychology**

Study of individual psychopathology and deviant behavior, including diagnosis, theories, causes, and treatments. (1)

Lecture: 3 hrs/wk.

### **240 Special Topics in Psychology**

A course offered in various formats, designed to give students instruction in a subject not regularly offered. (1)

Lecture: 3 hrs/wk.

### **250 Industrial-Organizational Psychology**

Application of principles and methods of psychology to business, industry, and other organizations, with emphasis on selection of employees and organizational behavior. (1)

Lecture: 3 hrs/wk.

### **260 Human Sexuality**

Human reproduction and sexual behavior; contemporary and historical norms; dysfunction; cross-cultural perspective; the bonding function of sexuality; and its expression in the arts, religion, ethics, and law. (1)

Lecture: 3 hrs/wk.

### **270 Drugs and Behavior**

An examination of the mechanisms of actions, uses, effects and abuse liability of range of drugs. Both therapeutic drugs (such as antidepressants and antipsychotics) and recreational drugs (such as alcohol, stimulants and marijuana) will be addressed. (1)

Lecture 3 hrs/wk.

### **280 Evolutionary Psychology**

Why do some humans like spicy food and drinking alcohol? Why are younger women attracted to older men? Why would we risk our life to save a total stranger? Evolutionary psychology suggests that a considerable amount of human activity can be explained as evolutionary adaptations. Human beings, like other animals on this planet, evolved certain traits, preferences, and abilities to deal with their environment. This class will explore the latest research applying evolution to human psychology. (1)

Lecture: 3 hr/wk.

*Prerequisite: PSYC 101.*

### **290 Learning**

Principles of learning processes, classic and contemporary theories, and methods of research. (1)

Lecture: 3 hrs/wk.

### **300 Tests and Measurements**

Principles and methods of psychological measurement and test construction, with consideration of administration and psychometric evaluation of representative tests. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Psychology 204 or permission.*

**305, 306 Research Experience**

Directed experience conducting empirical research under the supervision of a faculty member. Open to all students (majors and non-majors). (1/4, 1/4)

*Prerequisite: Permission of the department.*

**315 Personality**

Theories of personality, applications, and extensions of these theories, current research on individual differences, and methods and issues in personality measurement. (1)

Lecture: 3 hrs/wk.

**316, 317 Internship**

Practical experience in a setting in which psychology is applied. Placements in mental health facilities and other community agencies and institutions. Seminar in professional conduct and ethics. (One unit may be counted as an elective in the major). (1, 1)

*Prerequisite: Written application approved by department.*

**318, 319 Research Practicum**

Directed study and empirical research under the supervision of a faculty member. (Open to majors with the approval of the department. One unit may be counted as an elective in the major). (1, 1)

*Prerequisite: Written application approved by department.*

**325 Social Psychology**

Study of the influence of people on each other's behavior, including social influence and social interaction. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Psychology 101 and two other Psychology courses.*

**330 Physiological Psychology**

Study of the neurological and endocrinological substrates of behavior. (1)

Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

*Prerequisites: Psychology 101 and two other Psychology courses (Recommended: Biology 101 or higher).*

**340 Cognition**

An examination of the research and theory of complex cognitive processes. Topics covered include memory, cognitive development, language, thinking, concept formation, pattern recognition, and problem solving. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Psychology 101 and two other Psychology courses.*

**350 Sensation and Perception.**

Study of the functionality of the different senses and how perception arises within the human brain. (1)

Lecture: 3 hr/wk.

**405, 406, 407 Independent Study**

Empirical research project or extensive literature review, with faculty supervision. (1/2, 1, 1/2)

*Prerequisite: Written proposal and application approved by department.*

**420 Research Seminar: Personality/Social**

An advanced, research-oriented seminar in personality and/or social psychology. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Psychology 204 and 205 and either Psychology 315 or Psychology 325.*

**430 Research Seminar: Physiological Psychology**



An advanced, research-oriented seminar in physiological psychology. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Psychology 204 and 205 and Psychology 330.*

#### **440 Research Seminar: Cognition**

An advanced, research-oriented seminar in cognition. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Psychology 204 and 205 and Psychology 340.*

#### **450 History of Psychology**

Examination of the major systems in psychology with an emphasis on its 19th-century origins to the present. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Senior standing or by permission.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance. (1/2, 1, 1/2)

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. At least 1 unit of Independent Study (405, 406, or 407) is a prerequisite to 495, 496, and 497. May not be used as one of the 11 units for the B.A. degree.*

## **RELIGION**

*Professors Berenson, Hinlicky, McDermott, Wisnefske; Assistant Professor Rothgery; Teaching Associate M. Larson-Harris; Lecturers Benne, Gunsten, Henrickson, Lee, Kelly, Owens; Visiting Instructor Barker*

The Religion major gives students insight into a major force in human history which continues to define communities by their beliefs, rituals, and moral conduct. A major in religion requires the completion of nine units (at least two of which must be non-Christian\*). These include:

**Surveys** (not required, only one may count toward the major)

RELG 102	Christian Faith and Life
RELG 103*	The Jewish Tradition
RELG 104*	The World of Islam
RELG 105	Socrates, Jesus, and the Buddha
RELG 130*	Living Religions of the World

**Sacred Texts** (at least one)

RELG 201*	Israelite Patriarchs, Prophets, Princes, and Priests
RELG 202	New Testament Christianities
RELG 215	The Life and Teachings of Jesus
RELG 216	The Life and Teachings of Paul
RELG 217*	Topics in Israelite and Early Jewish Religion
RELG 290	Feminist Readings of the Bible

**History** (at least two)

RELG 208	Buddhism
RELG 210	Early Christian Conflicts and Community Life
RELG 211*	Hellenistic Cults, Magic, and Mystery Religions
RELG 212	The Reformation (cross-listed with HIST 231)
RELG 213*	Religions and Philosophies of India

RELG 214	Religion in America
RELG 215	The Life and Teachings of Jesus
RELG 216	Pauline Christianity
RELG 217*	Topics in Israelite and Early Jewish Religion
RELG 218*	Religions and Philosophies of China
RELG 230	Introduction to the Theology of Martin Luther
RELG 261	History of World Christianity I: 325-1500
RELG 262	History of World Christianity II: 1500-2000
RELG 280	History of Christian Thought

**Religion and Society** (at least one)

RELG 205	Hinduism
RELG 220	Christian Ethics
RELG 225	The Religious Life of Young Adults
RELG 231	Religion, Philosophy, and Science
RELG 235	Religion and Literature
RELG 240	Religious Interpretation of Films
RELG 246	The Holocaust (cross-listed with HIST 246)
RELG 250	New Religions in America
RELG 270	Explorations in Religion and Society

**Advanced** (at least two)

RELG 312	Topics in New Testament and Early Christianity
RELG 317	Systematic Theology
RELG 320	The Theology of Jonathan Edwards
RELG 325	Modern Theology
RELG 330	Christian Theology and the World Religions
PHIL 301	Plato
PHIL 310	Kant's Critical Philosophy
PHIL 315	Hegel
PHIL 320	Nietzsche
PHIL 321	Topics in Philosophy of Religion
PHIL 325	Heidegger
PHIL 340	Topics in Contemporary European Philosophy

**Senior Thesis** (1 unit)

410, 411, 412 (1/2, 1, 1/2)

495, 496, 497 (1/2, 1, 1/2)

Other units from among those listed above, (with no more than one survey course) to meet the nine units required for the major.

SOCI 327 may be considered an elective with approval of the department, as may some IL courses.

**Minor in Religion**

A minor in religion requires the completion of six units.

These include:

**Surveys** (none required, and no more than two may count toward the minor)

RELG 102, 103, 104, 105, 130

**Sacred Texts** (at least one)

RELG 201, 202, 215, 216, 217

**History** (at least one)

RELG 208, 210, 211, 212, 213, 214, 215, 216, 217, 218, 230, 261, 262, 280

**Religion and Society** (at least one)

RELG 205, 220, 225, 231, 235, 240, 246, 250, 270

**Advanced** (at least one)

RELG 312, 317, 320, 325, 330, PHIL 310, PHIL 315, PHIL 320, PHIL 321, PHIL 325, PHIL 330

SOCI 327 may be considered an elective with approval of the department, as may some IL courses.

**Concentration in Parish Youth Leadership**

The concentration in Parish Youth Leadership requires seven units:

PSYC 101	Introduction to Psychology
PSYC 211	Adolescent Development
RELG 225	The Religious Life of Young Adults
RELG 416	Internship

One of:

RELG 102	Christian Faith and Life
RELG 317	Systematic Theology
RELG 325	Modern Theology

One of:

RELG 111	The Hebrew Scriptures
RELG 112	New Testament

One of:

RELG 220	Christian Ethics
RELG 240	Religious Interpretation of Film
RELG 250	New Religions in America

**102 Christian Faith and Life**

An examination of the basic tenets of Christian belief, its moral teachings, and way of life. (1)

Lecture: 3 hrs/wk.

**103 The Jewish Tradition**

An overview of the history of Judaism, its teachings, and its traditions. (1)

Lecture: 3 hrs/wk.

**104 The World of Islam**

An introduction to the Qur'an, the Muslim faith, and the fabric of Islamic societies, starting with the life of Muhammad. (1)

Lecture: 3 hrs/wk.

**105 Socrates, Jesus, and the Buddha**

A survey of the main figures in the religious and philosophical traditions of the Western world, as well as major figures in Eastern religion and philosophy. (1) (Cross-listed with Philosophy 105).

Lecture: 3 hrs/wk.

**130 Living Religions of the World**

The major living religions of the world; their sources, nature, and attempt to deal with certain human problems. (1)

Lecture: 3 hrs/wk.

### **201 Israelite Patriarchs, Prophets, Princes and Priests**

An historical and critical study of the religion, history, and literature of ancient Israel. Particular attention will be given to understanding the differences between historical and faith-based modes of interpreting scripture. (1)

Lecture: 3 hrs/wk.

### **202 New Testament Christianities**

An historical and critical study of the earliest Christian communities and their literature. Particular attention will be given to understanding early Christians' complicated relationship with Judaism and Greco-Roman society. (1)

Lecture: 3 hrs/wk.

### **205 Hinduism**

This course will be a survey of Hindu traditions from the early Indus Valley, through the Vedic, Epic and Puranic eras to the medieval and modern eras. We will focus on Hindu texts, rituals, aesthetics and philosophies, and social and family structures. (1)

Lecture: 3 hrs/wk.

**208 Buddhism** This course will encounter the varieties of one of the oldest and most diverse religions as it developed in India, China, Japan, Tibet, and the United States. The course will examine Buddhism's history, philosophy, ethics, Art, literature, and ritual practices. First, we will study the life and awakening of the Buddha, how the Buddha's perception of reality transforms our relationships to ourselves and to each other, and how it directs us to live a life of compassion for others. Second, we will see how the Buddha's core teachings changed as they spread to other countries. The course is divided into three parts: Foundations, which provides an introduction to the Buddhist world view; Development, which charts the changes and elaborations made to that world view under the Mahayana philosophers; and Literature, which explores how Buddhist ideas have been expressed in poetry, the novel, and film. (1)

Lecture: 3 hrs/wk.

### **210 Early Christian Conflicts and Community Life**

A study of the development of Christianity from a Jewish sect in the late first century to the dominant religion of the Roman Empire in the fourth century. (1)

Lecture: 3 hrs/wk.

### **211 Hellenistic Cults, Magic, and Mystery Religions**

An examination of the diversity of religions in the Greco-Roman world following the conquests of Alexander the Great. The course will examine individual, familial, and civic religious expression as well as the rise of the mystery religions and the new communities of Judaism, Christianity, and Gnosticism. (1)

Lecture: 3 hrs/wk.

### **212 The Reformation**

The Protestant Reformation of the 16th century and the Roman Catholic reaction. (Religion 212 and History 231 may not both be taken for credit.) (1)

Lecture: 3 hrs/wk.

### **213 Religions and Philosophies of India**

An interdisciplinary examination of the philosophical and religious traditions of South Asia. Topics include the central ideas and practices of these traditions, their historical development, their styles of reasoning, and the relationship between religion and philosophy. (1) (Cross-listed with Philosophy 213).

Lecture: 3 hrs/wk.

**214 Religion in America**

An investigation and examination of the distinctive beliefs and practices of mainstream religious groups and their influence upon the development of America. (1)

Lecture: 3 hrs/wk.

**215 The Life and Teachings of Jesus**

Examination of the life and teachings of Jesus in the light of recent Biblical scholarship. (1)

Lecture: 3 hrs/wk.

**216 Pauline Christianity**

A study of the Apostle Paul's teachings and the development of his churches through a critical examination of his writings. Particular attention will be given to exploring new scholarly methods of studying early Christianity. (1)

Lecture: 3 hrs/wk.

**217 Topics in Israelite and Early Jewish Religion**

An examination of a major subfield within the Hebrew Scriptures and early Judaism. Designed to provide students with the opportunity to study a single aspect of Israelite or Jewish religion. (1)

Lecture: 3 hrs/wk.

**218 Religions and Philosophies of China**

An interdisciplinary examination of the philosophical and religious traditions of East Asia. Topics include the central ideas and practices of these traditions, their historical development, their styles of reasoning, and the relationship between religion and philosophy. (1) (Cross-listed with Philosophy 218).

Lecture: 3 hrs/wk.

**220 Christian Ethics**

An examination of Christian moral values and their relation to the issues of contemporary personal and social life. (1)

Lecture: 3 hrs/wk.

**225 The Religious Life of Young Adults**

An introduction to the faith development of young adults and their psychological and social characteristics. This course will identify and foster communication skills for effectively communicating with adolescents. The role of adult leadership in youth groups will be examined. Finally, the course will consider resources for developing and implementing youth ministry programs in congregations. (1)

Lecture: 3 hrs/wk.

**230 Introduction to the Theology of Martin Luther**

A critical reading of the major theological texts of Martin Luther, considering historical context and the texts' significance for church and society. (1)

Lecture: 3 hrs/wk.

**231 Religion, Philosophy, and Science**

An examination of the confrontations, compatibilities, and cooperation among religious thought, philosophy, and scientific inquiry. Topics will include philosophical analyses of science, the debates between the natural sciences and Western religion, recent developments in the social sciences, and insights from Eastern religions. (1) (Cross-listed with Philosophy 231).

Lecture: 3 hrs/wk.

**235 Religion and Literature**

This class explores the interface between religious ideas and practices and literary form. We will do close readings of a variety of literary works to determine how their forms have adapted to traditional religious ideas. Each unit will begin with an exploration of a religious tradition to familiarize students with the traditions' essential concepts, symbols, and practices. We will then read various works that express these

in new ways through literary conventions and analyze how literary techniques specific to poetry, narrative, and film shape these expressions. (1)

Lecture: 3 hrs/wk.

#### **240 Religious Interpretation of Films**

This course aims at probing the meaning of contemporary films from several perspectives-social, political, artistic-but especially from a theological point of view. (1)

Lecture: 3 hrs/wk.

#### **246 The Holocaust**

An historical account and a religious analysis of the Holocaust, including an examination of theological reactions to this event. (1) (Cross-listed as History 246).

Lecture: 3 hrs/wk.

#### **250 New Religions in America**

A study of non-traditional religious communities in America, such as the Mormons, New Age, Scientology, and Branch Davidians. (1)

Lecture: 3 hrs/wk.

#### **261 History of World Christianity I: 325-1500**

The development of Christianity from the imperial age to the dawn of the Reformation. The course focuses especially on the importance of non-European centers of Christian expansion. (1)

Lecture: 3hrs/wk.

#### **262 History of World Christianity II: 1500-2000**

The development of Christianity from the dawn of the Reformation through the end of the twentieth century. The course focuses especially on the importance of non-European centers of Christian expansion. (1)

Lecture: 3hrs/wk.

#### **270 Explorations in Religion and Society**

A study of the interaction between religion and society in a selected country or region. (1)

Lecture: 3 hrs/wk.

#### **280 History of Christian Thought**

An intellectual encounter with classic Christian thinkers, a study of the development of Christian doctrine, and a reflection on the state of the Christian intellectual tradition today. (1)

Lecture: 3 hrs/wk.

#### **290 Feminist Readings of the Bible**

An investigation into the historical origins of the Bible and the ways in which texts from the Bible relevant to women's lives have been interpreted throughout history. The course will then focus on the responses of feminist readers to these difficult passages from the Bible and their varied attempts to understand the realities of women's lives in the ancient world and to address the ongoing influence of these biblical texts in women's lives today. (1)

Lecture: 3 hrs/wk.

#### **295 Methods and Theories in the Study of Religion**

By comparing early theories of religion, testing classic definitions and concepts, we appreciate and evaluate modern and postmodern methods and theories in religious studies. Along the way we gauge the implications of thinking about religious studies as a distinct subject, but also think reflectively about our role as observers of the world's religions as part of vast landscapes of human experiences and cult. (1)

Lecture: 3 hr/wk.

*Pre-requisite: One prior course in Religion.*

### **312 Topics in Biblical Studies and Early Christianity**

An examination of issues of current significance to the study of the Hebrew Scriptures, the New Testament or early Christianity. Topics for any given semester will be chosen by the professor in consultation with students interested in taking the course. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Religion 201, 202, 215, 216 or 217.*

### **317 Systematic Theology**

A study of the interrelationships between the main Christian articles of faith in the thought of major 19th and 20th century theologians. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous course in religion or philosophy or permission.*

### **320 The Theology of Jonathan Edwards**

An exploration of the religious thought of Jonathan Edwards (1703-1758), one of the most influential theologians in North America. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous course in religion or philosophy or permission.*

### **325 Modern Theology**

A study of the ways Christian theologians responded to the intellectual and cultural challenges of the modern world (1650 – 1950). (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous course in religion or philosophy or permission.*

### **330 Christian Theology and the World Religions**

An examination of religious pluralism, with special attention to three problems: the truth status of competing religious claims, salvation of religious others, and whether God has been revealed in other religions. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Previous course in religion or philosophy or permission.*

### **405, 406, 407 Independent Study and Research**

Selected topics in religion carried out under the supervision of the department staff. (1/2, 1, 1/2)

### **410, 411, 412 Senior Thesis**

At the end of the junior year every major will register with a member of the department to study and write a major paper in the final year. Guidelines, requirements and dates are explained in "The Senior Thesis." (1/2, 1, 1/2)

Lecture: 3 hrs/wk.

*Prerequisite: Senior standing.*

### **416, 417 Internship**

A supervised placement in a local church, clinical setting, or social service agency, in which the student would be required to make a practical application of theological and ethical insights. (1, 1)

Lecture: 3 hrs/wk.

### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper.

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **RUSSIAN**

A major in Russian is not offered at Roanoke College.

### **101, 102 Elementary Russian I, II**

A study of the fundamentals of Russian with emphasis on pronunciation and oral communication. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

### **201, 202 Intermediate Russian I, II**

A comprehensive study of the grammar; in-depth development of listening, speaking, reading and writing skills; cultural component included. (1, 1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

*Prerequisite: Russian 101-102 or permission of the instructor.*

## **SOCIOLOGY**

*Professor Weiss; Associate Professors Berntson, Dunn, K.L. Hoffman, Mehrotra; Assistant Professors Anderson; Morris, Sarabia; Teaching Associate Brogan*

A major in sociology requires a minimum of 11 units, including:

SOCI 101	Introduction to Sociology
SOCI 251	Research Methods
SOCI 252	Data Analysis
SOCI 353	Social Theory
SOCI 454	Senior Seminar

Six additional units in sociology, at least 3 of which must be at or above the 300 level. At least one of these three upper level units must be at the 400 level. Honors Project (SOCI 495, 496, 497) and Independent Study and Research (SOCI 405, 406, 407) may count for the 400-level elective.

Sociology 416 (Community Internship) may not be used to satisfy the 300/400 level requirement.

Sociology 101 or INQ 260SO or permission of the instructor is the minimal prerequisite to all other sociology courses. Sociology 101 and one 200-level sociology course are the minimal prerequisites to Sociology 251, which begins the core sequence in the major. Sociology 251 (or permission) is prerequisite to Sociology 252 and Sociology 252 (or permission) is the prerequisite to Sociology 353. The completion of all required core courses and senior status are prerequisites to Sociology 454. Students majoring in sociology are encouraged to take Sociology 251 and 252 in the sophomore year. Sociology 353 is strongly recommended for the junior year, prior to enrolling in Sociology 454 in the senior year. The prerequisite for all 300-level courses will be SOCI 101 and one 200-level sociology course, or permission of the instructor. The prerequisite for all 400-level courses is SOCI 353 or permission of instructor.

Three of the following Anthropology courses: ANTH 101, ANTH 212, ANTH 310, and ANTH 380- may count as electives in the major (but only one 300-level ANTH course).

### **Concentration in Information Analysis**

*Associate Professor Dunn, Coordinator*

The concept of the information analyst blends the traditional liberal arts education with some specific skills in the acquisition, analysis, and dissemination of information. It calls attention to skills that



sociology majors already learn and provides additional coursework in areas related to the collection, analysis, and communication of information. Sociology majors may earn a concentration in information analysis by successfully completing the six one-unit courses listed below.

COMM 202	Mass Communication <b>or</b>
COMR 240	Public Opinion Polling
CPSC 101	Introduction to Computers
PHIL 122	Logic
SOCI 251	Research Methods
SOCI 252	Data Analysis
SOCI 406	Independent Study and Research
SOCI 421	The Information Society

Recommended: INQ 240 Statistical Reasoning

### **Minor in Sociology**

A minor in sociology requires six units in Sociology, including: Sociology 101; Sociology 251 (or any other social science methods course such as CJUS/I.R./POLI 340 or PSYC 205); and 4 additional units in Sociology, with at least two at the 300 level or above (excluding 416). Two of the following Anthropology courses: ANTH 101, ANTH 212, ANTH 310, and ANTH 380- may count as electives in the minor (but only one 300-level ANTH course).

#### **101 Introduction to Sociology**

An introduction to the field of sociology with an emphasis on the study of social groups and how they influence human behavior and society. (1)

Lecture: 3 hrs/wk.

#### **215 Social Movements**

Study of the social and political context of social movements. Topics include conditions hindering or facilitating movements, organization, participation and recruitment, framing, tactics and strategies, influence of the state and other movements, and social change. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

#### **223 Ethics and Medicine**

An examination of ethical issues in medicine and the moral principles that might be employed to resolve ethical dilemmas. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

(Cross-listed as Philosophy 223).

#### **224 Race and Ethnicity**

A study of racial, religious, and nationality minority groups in the United States. Topics include prejudice, racism, and discrimination; immigration and assimilation; and current public policy issues. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

#### **226 Intimate, Marital, and Family Relationships**

An analysis of intimate, marital, and family interaction patterns in contemporary American society, with a focus on the social institutions and structures that shape them. Topics include courtship and dating, cohabitation, selection of long-term partners and issues related to marital and parent-child relationships.

Multiple family structures such as nuclear families, egalitarian marriages, gay and lesbian relationships, single parenting, and stepfamilies are examined. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of instructor.*

### **229 Sociology of Sex and Gender**

An introduction to a critical approach to examining the social construction of sex and gender. Topics include analysis of sex/gender systems, perspectives on gender inequality and the role of social institutions such as family, economy, media, etc. in shaping multiple experiences of gender and the characteristics of gender relations in society. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **234 Social Problems**

An exploration of the interconnectedness of many of our society's most pressing social issues that contextualizes them in patterns of social organization at global, societal, and local levels. This course provides a conceptual frame of reference for defining and analyzing major contemporary social problems. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **235 Social Psychology**

An examination of social interaction and the social factors that influence behavior, attitudes and self-concept. Topics include how the self develops, socialization processes, social roles, stigma, and social inequality. Topics include the development of the self, socialization processes especially as they apply to attitude formation, and how social psychological processes contribute to the construction of inequalities. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **236 Popular Culture**

An analysis of popular culture as a reflection of society, a factor in socialization, and an economic institution. Topics include popular music, television and films, comics and cartoons, and sports and games. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **237 Deviant Behavior**

An examination of the concept of deviance and the various sociological perspectives on deviant behavior. Sociological, biological, and psychological theories of causation are used to study behaviors such as drug addiction and alcoholism, deviant sexual behavior, and mental illness. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **238 Juvenile Delinquency**

An analysis of the nature and types of juvenile offenses, sociological theories of delinquency and causation, and an examination of the juvenile justice system. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **241 Introduction to Social Welfare**

Analysis of the historical development, structure, and functions of contemporary social welfare agencies. Observation of local agencies. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or INQ 260SO or permission of the instructor.*

### **251 Research Methods**

An examination of the research techniques used by sociologists. Attention is given to research design, survey research, sampling, field research, experimental research, and the ethics of research. Understanding the basics of research and mastery of research skills are both emphasized. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 and one 200-level sociology course.*

### **252 Data Analysis**

An examination of the basic skills involved in the descriptive and inferential analysis of social research data, including an introduction to analysis using computer software. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 251 or permission of the instructor.*

### **260, 261 Selected Topics in Sociology**

An examination of special topics in sociology, with topics selected on the basis of faculty and student interest. (1/2, 1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 101 or permission of the instructor.*

### **315 Political Sociology**

An analysis of power, politics, the state, and international entities from a sociological perspective. Topics include power and authority, political and economic systems, inequality, political parties, social movements, nation-states, and globalization. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level sociology course or permission of the instructor.*

### **320 Education and Society**

An exploration of social issues related to education in the United States from a sociological perspective focusing in the social context of educational settings, key social-structural forces, and how social inequality affects opportunities and experiences in schools. Specific topics include interaction patterns among teachers and students, academic cheating, harassment and violence, and the influence of family, community, cultural and politics on schools. (1)

Lecture: 3 hrs/wk.

### **323 Health, Illness and Healing**

An analysis of the social context of health, illness, and healing including the influence of the social environment on disease and illness patterns, interaction among health care providers and patients, and types of health care systems. Special focus is given to social inequalities in the American health care system. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **324 Social Stratification**

An analysis of the distribution of power, prestige, and wealth in the United States and the societies of other countries. Topics include social classes and their effects on behavior and social mobility. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **325 Sociology of Communities**

A study of community life, including theoretical and methodological approaches to both rural and urban communities. Topics include social relationships in community, community structure and organization,

historical development of urban community, urbanism as a way of life, the impact of social change on community, comparative communities, and social planning in communities. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **326 Comparative Corrections**

An exploration of philosophies, rationales, and models of adult corrections. Historical and existing correctional systems in select countries, e.g., the U.S., Canada, England, France, Japan, Mexico, Sweden, and the former U.S.S.R. will be examined. (1) Cross-listed as CJUS 326.

Lecture: 3 hrs/wk.

*Prerequisite: Criminal Justice 211 or Political Science 211 or 200-level Sociology course or permission.*

### **327 Religion and Culture**

An examination of the relationship between religion and society. Topics include definitions and theories of religion; analysis of historical and contemporary religious groups; the influence of religion on attitudes and behaviors; and the role of religion in social change. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **334 Criminology**

An analysis of the social causes of crime and criminal behavior with a focus on drug, property, white collar and violent crime. Theoretical explanations of criminal behavior and a critique of selected aspects of the American criminal justice system are discussed. Programs for crime prevention and rehabilitation are examined. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **335 Global Population Problems**

An analysis of population structure and dynamics as influenced by cultural, political, economic, and environmental factors. This course focuses attention to the social determinants of population problems, while exploring their consequences and policy implications for individuals, their societies, and the world. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **336 Organizations, Occupations, and Work**

An examination of the centrality of work in the lives of individuals and in the development of societies. Topics include organizational structures, corporate cultures, worker identities and activities, workplace stratification, and conflict and change in organizations. (1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **337 Environmental Sociology**

An examination of the interrelationships between societies and their environments, and an analysis of sociological aspects of environmental problems. This course will focus on the population and organizational aspects of environmental problems as well as elements of social change involved with environmental social action. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Environmental Science 200 or one 200-level Sociology course.*

### **353 Social Theory**

An examination of the ideas and important contributions of major sociological theorists to the discipline of sociology. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 252 or permission.*

### **360, 361 Selected Topics in Sociology**

An examination of special topics in sociology, with topics selected on the basis of faculty and student interest. (1/2, 1)

Lecture: 3 hrs/wk.

*Prerequisite: One 200-level Sociology course, or permission of the instructor.*

### **395, 396 Henry H. Fowler Public Policy Seminar**

A seminar taught with a scholar-statesperson that deals with a policy issue of public significance. (Made possible by the Henry H. Fowler Endowment. Open to selected students with department permission.) (1, 1/2)

### **405, 406, 407 Independent Study and Research**

A supervised research project or extensive literature review. (1/2, 1, 1/2)

*Prerequisite: Prerequisite: Sociology 353 and written proposal approved by the department.*

### **416 Community Internship**

Practical experience in a social service agency, correctional facility, health institution, business, or other community setting in which sociology is applied. May not be used to fulfill the 300-level or above requirement for the major or minor. (1)

*Prerequisite: Written proposal approved by the department.*

### **421 The Information Society**

An examination of theory, research, and debate concerning the nature of and change in information in contemporary society. Topics covered will include traditional and critical theory, information theory, theories of mass communication and mass society, innovation and diffusion as well as postindustrial and post modern perspectives. Media ethics, privacy controversies, and policy implications are also considered. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 353 or permission.*

### **424 Gender and Development**

An examination of how gender relations in a society influence and are in turn reshaped by economic development. Topics include the theoretical and practical issues in gender and development, the processes and impacts of globalization, gender planning, and women's grassroots social and political movements. (1)

Lecture: 3hrs.wk.

*Prerequisite: SOCI 353 or permission.*

### **429 Gender Violence**

An exploration of the complex interrelationships among gender, sexuality, and violence. Topics include the historical, cultural and social-structural bases of gender violence, including sexual harassment, rape, domestic violence, and the use of gender violence in war; and current and potential responses to gender violence in communities, organizations, and public policy. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 353 or permission.*

### **437 Crowds, Panics, and Disasters**

An analysis of emergent, comparatively unstructured, and spontaneous collectivities and social processes within societies. The course gives special attention to social behavior during normative breakdowns, crisis situations, and periods of dissent. Group behavior during riots and disasters is examined, along with the dynamics of panics and rumor. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Sociology 353 or permission.*

#### **454 Senior Seminar**

A capstone course for the sociology major that includes an in-depth review and analysis of major themes within sociology. (1)

*Prerequisite: Sociology 353 and senior status.*

#### **495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## **SPANISH**

*Professors Talbot, Kalinoski; Associate Professors Flores-Silva; Assistant Professors Banuelos-Montes, Carrasco; Visiting Assistant Professor Stanco; Visiting Instructor Z. Banuelos; Teaching Associate Myers;*

A minimum grade point average (GPA) of 2.0 overall and 2.0 in Foreign Language courses is required to declare a major in Spanish.

A major in Spanish consists of the completion of at least 11 units above the 202 level in this language. A major must complete at least one one-unit course in Spanish during the senior year.

Spanish majors are required to complete a departmentally approved course of study abroad as part of their major. Appropriate periods of study include an Intensive Learning or May Term travel course, or a Summer, semester, or year abroad with a department-approved program such as ISEP or another university-sponsored program.

Spanish majors are required to complete Spanish 303, 304, 311, 312, 320, 323, 402, two additional 400-level literature courses, and two elective units to be chosen from advanced Spanish courses, History 272 or Political Science 225, and Linguistics 320 (these last three taught in English). However, no more than two courses taught in English may be applied toward the major. It is recommended that students take two 300-level units taught in Spanish before or concurrent with enrolling in a Spanish literature course. Note that Spanish 201 and 202 or their equivalent are prerequisites for all advanced courses in Spanish. For native speakers of the language, Spanish 304 will be waived as a requirement and will not count toward the major; another upper-level course unit must be substituted for Spanish 304. Students who study abroad should select, in consultation with their advisors, appropriate substitutes for these requirements. It is highly recommended that all majors planning to teach take Spanish 341 as an elective. Spanish 341 will be considered as one of the two possible courses taught in English that may be applied toward the Spanish major. Students planning to teach may satisfy their training in methods through Spanish 341.

For placement and prerequisites at the lower level, see "Foreign Languages."

### **Minor in Spanish**

A minor in Spanish consists of six units, including: Spanish 201 and 202, or two electives, Spanish 303 and 304, Spanish 311 or 312 or 313 or 315 and one elective unit to be selected from Spanish courses numbered at or above the 300 level. Each minor will be individually tailored to complement the student's interests and major field of study. A period of study abroad is highly recommended.

### **101, 102 Elementary Spanish I, II**

A study of the essentials of Spanish grammar and basic vocabulary to promote speaking, listening, reading, and writing skills. Emphasis on developing the conversational skills and cultural awareness to handle topics of everyday life in Spanish. (1, 1)

Lecture: 3 hrs/wk. for each; Laboratory: 1 hr/wk. for each.

### **150 Elementary Spanish Review**

A one-semester review of the essentials of Spanish grammar and basic vocabulary to promote speaking, listening, reading, and writing skills. Emphasis on developing conversational skills and cultural awareness to handle topics of everyday life in Spanish. (This course is designed for students who have studied Spanish previously, but lack sufficient preparation to enter Intermediate Spanish 201.) (1) (The course number will change to 150 Spring 2010).

Lecture: 3hrs/wk; Laboratory: 1 hr/wk.

*Prerequisite: Spanish 101 or the equivalent. Credit cannot be received for both Spanish 102 and Spanish 150.*

### **201, 202 Intermediate Spanish I, II**

A review of the essentials of Spanish grammar with the introduction of advanced structures. Continued development of the four essential skills, and further acquisition of vocabulary. Emphasis on conversational skills to handle situations of everyday life with increased range of personal expression. Inclusion of cultural material. (1, 1)

Lecture: 3 hrs/wk. for each; Laboratory: 1 hr/wk. for each.

*Prerequisite: No prerequisite, but previous study of a foreign language is recommended. (For any course above the 202 level, 201-202 or the equivalent is a prerequisite.)*

The following are taught in Spanish:

### **303 Spanish Composition**

Practice in written expression with an intensive review of Spanish grammar. Introduction to the principles of Spanish style and techniques of formal writing and translation. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 202 or equivalent.*

### **304 Spanish Conversation**

Practice in oral self-expression and listening comprehension. (This course is for non-native speakers of Spanish.) (1)

Lecture: 3 hrs/wk.; Laboratory work.

*Prerequisite: Spanish 303 or permission.*

### **311 Civilization and Culture: Spain**

The civilization and cultural development of Spain. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303, 304 or permission.*

### **312 Civilization and Culture: Spanish America**

An overview of the historical and cultural development of Spanish America from its pre-Colombian roots through the colonial era and up to contemporary times. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303, 304 or permission.*

### **313 Language and Culture in the Hispanic World**

Intensive study of present-day Hispanic language and culture: intellectual and artistic currents, beliefs, customs and traditions, stereotypes and self-images. Conducted in Spanish. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303, 304 or permission.*

**315 Contemporary Issues: Spanish America**

A survey of current political, economic, and cultural issues that are regional and global in scope. (1)

Lecture: 3 hrs/wk.; Laboratory work.

*Prerequisite: Spanish 303, 304 or permission.*

**320 Introduction to Literature: Spain**

A study of literary works by major Spanish writers from medieval through contemporary times with a careful consideration of contexts and analysis of literary style. (1)

Lecture: 3hrs/wk.

*Prerequisite: Spanish 303 and 304, or permission. Completion of Spanish 311 is recommended.*

**323 Introduction to Literature: Spanish America**

A study of literary works by major Spanish-American writers from the colonial era through contemporary times with a careful consideration of contexts and an analysis of literary style. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304 or permission.*

**330 Commercial Spanish**

Fundamentals of practical commercial Spanish, effective reports and letters applicable to business usage, as well as the language of advertising, foreign trade, transportation, banking, and finance. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304 or permission.*

**335 Spanish Phonetics and Phonology**

The theory and practice of pronunciation. A systematic analysis of the sounds of Spanish. Stress and intonation patterns of Spanish speech through phonetics transcription and intensive oral practice. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304 or permission.*

**340 Area Studies in Latin America**

Focused and in-depth cultural studies on selected regions of Latin America. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304 or permission.*

May be repeated for credit with different content.

**341 Methods of Teaching Foreign Languages**

An evaluative study of language teaching methods. Development of teaching aids and a teacher's resource book. PreK-12 levels of instruction will be presented. Assignments will be completed in Spanish. (1)

Taught in English.

Lecture: 3 hrs/wk.

(Cross-listed as Language 341.)

**380 Special Topics in Hispanic Life and Culture**

Class study of a special topic, with topic to be determined by the students and the faculty member. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304 or permission.*

May be repeated for credit with different content.

**402 The Structure of Modern Spanish**

Study of complex structures and problematic aspects of Spanish language focusing on morphology, syntax, and semantics. Emphasis is placed on direct application to composition, translation, and oral expression. (1)

(1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304 or permission.*



**403 Translation and Interpretation**

Introduction to the field of professional translation and interpretation focusing on theoretical and methodological issues. Emphasis is placed on conventions, techniques, problems and best practices in translation and interpretation both from Spanish into English and from English into Spanish. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 303 and 304, or permission.*

**405, 406 Independent Study**

Guided reading and research of a particular facet of the Spanish or Spanish-American language, literature, and culture. (1/2, 1)

*Prerequisite: Permission of the instructor.*

**410 Medieval and Golden Age Hispanic Literature**

Close readings of texts by writers from Spain and/or Spanish America. Emphasis on major literary styles of the period: Medieval, Renaissance, and Baroque. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 320 and 323 or permission.*

May be repeated for credit with different content.

**416 Internship**

Field placement providing the student with practical experience in work areas in which Spanish is applied. These areas may include embassies, government service, international business, education, industry, and the communications media. (1) May be conducted in Spanish or English.

Lecture: 3 hrs/wk.

(Cross-listed as Language 416.)

**420 18th- and 19th-Century Hispanic Literature**

Close readings of texts by writers from Spain and/or Spanish America. Emphasis on major literary styles of the period: Neoclassicism, Romanticism, Realism, and Naturalism. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 320 and 323 or permission.*

May be repeated for credit with different content.

**430 20th-Century Hispanic Literature**

Close readings of texts by writers from Spain and/or Spanish America. Emphasis on major literary styles from the early part of the century up to contemporary times. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Spanish 320 and 323 or permission.*

May be repeated for credit with different content.

**480 Advanced Studies in Hispanic Language and Culture**

Concentrated study of a special topic or theme of Hispanic language and/or culture as manifested in creative and historical literature, music, art, film, etc. Historical and/or national boundaries are crossed whenever the nature of the topic permits. May be repeated for credit with different content. (1)

Lecture: 3hrs/wk.

*Prerequisite: Spanish 320 and 323 or permission.*

**495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

## STATISTICS

*Professor Spielman; Associate Professor C. Lee; Assistant Professors Childers, D. Taylor; Teaching Associates K. Bauman, J. Minton, Staniunas*

Roanoke College does not offer a major in Statistics.

### Concentration in Statistics

The concentration in statistics will require five units, including STAT 202 Probability, STAT 301 Statistical Methods, and STAT 401 Mathematical Statistics and two additional units chosen from STAT 403 Experimental Design, STAT 404 Applied Regression Analysis, CPSC 420 Simulation, MATH 388 Topics in Mathematics (pending approval of the department), and MATH 416 or STAT 416 Internship (pending approval of the department).

### 101 Introductory Statistics

Please see description under INQ 240. The Intellectual Inquiry Curriculum was implemented beginning fall term, 2009. Students who completed this course in an earlier term should refer to the 2007-2009 academic catalog for the course description.

### 202 Probability

Sets, sample spaces, random variables, probability distributions. Chebyshev's inequality, central limit theorem, sampling and estimation, tests of hypotheses. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Mathematics 122.*

(May not enroll in INQ 240 if STAT 202 has been completed.)

### 301 Statistical Methods

Descriptive statistics, sampling procedures, simulation, estimation of parameters, tests of hypotheses, nonparametric methods, regression, and correlation. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Mathematics 122.*

(Offered in 2007-2008 and alternate years.)

### 401 Mathematical Statistics

Probability, discrete and continuous distributions, moments and moment-generating functions, sampling theory, and estimation. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Mathematics 122 and Statistics 202.*

(Offered in 2008-2009 and alternate years.)

### 403 Experimental Design

Analysis of variance, analysis of covariance, multiple-range tests, completely randomized and randomized block designs, Latin squares, factorial designs, and split-plot designs. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Statistics 301.*

(Offered in 2007-2008 and alternate years.)

### 404 Applied Regression Analysis

Applied statistical methods with emphasis on interpretation of regression models, data analysis, statistical computation, and model building. Specific topics covered include: simple and multiple linear regression, non linear regression, correlation, use of dummy variables, the diagnoses of residuals, selection of variables, and time series techniques. There will be a significant use of statistical software. (1)

*Prerequisite: Statistics 301.*

(Offered in 2008-2009 and alternate years.)

### 405, 406, 407 Independent Study and Research

Selected topics in statistics carried out under the direction of a member of the departmental staff.  
Enrollment with the approval of the department. (1/2, 1, 1/2)

#### **416 Internship**

Field placement providing practical experience and training in areas in which statistics is applied. These areas may include industry, government agencies, educational institutions, insurance companies, and a variety of private enterprises. Permission of the department is required. (1)

## **TEACHERS OF ENGLISH TO SPEAKERS OF OTHER LANGUAGES**

*Associate Professor Maria Stallions*

Roanoke College does not offer a major in this field.

### **Concentration in Teachers of English to Speakers of Other (TESL)**

The concentration in TESL serves the needs and interests of Roanoke College students who are interested in teaching English to speakers of other languages both in the United States and abroad. Students may earn the concentration by completing six courses.

ANTH/LING/ENGL 320	Basic Linguistics
ENGL 321	Advanced Grammar and Style
LANG 341	Methods of Teaching Foreign Languages
TESL 220	Cross-Cultural Learning & Communication: Understanding the Needs English Language Learners in Elementary Schools
	OR
TESL 221	Cross-Cultural Learning & Communication: Understanding the Needs English Language Learners in Secondary Schools
TESL 246	Reading and Principles of Second Language Acquisition
TESL 346	Curriculum and Assessment for the ESL Teacher

In addition, students must complete 2 units of modern foreign language study in the same language. (Competency will be accepted based on College Competency Standards).

### **220 Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Elementary Schools**

Examination of the history, meanings, implications, and application of various ideologies and beliefs related to multiculturalism as they relate to teaching, learning and communication in PreK-6 Elementary Education. (1)

Lecture: 3 hrs/wk.

*Prerequisite: None*

### **221 Cross-Cultural Learning and Communication: Understanding the Needs of English Language Learners in Secondary Schools**

Examination of the history, meanings, implications, and application of various ideologies and beliefs related to multiculturalism as they relate to teaching, learning and communication in secondary schools. (1)

Lecture: 3 hrs/wk.

*Prerequisite: None*

### **246 Reading and Principles of Second Language Acquisition**

Examines the processes involved in learning and using a second language, as well as how these processes differ from those involved in first language acquisition. The course addresses the five major areas of reading instruction (phonemic awareness, phonics, fluency, vocabulary and text comprehension) as they apply to English language learners. (1)

Lecture: 3hrs/wk.

*Prerequisite or co-requisite: TESL 220 or 221.*

### **346 Curriculum and Assessment for the ESL Teacher**

Analysis of current curricular approaches and assessment trends in ESL instruction. The course provides opportunities for students to devise their own assessments and curricular projects. (1)

Lecture: 3 hrs/wk.

*Prerequisite or Co-requisite: TESL 220, 221 or 246.*

### **370 Field Experience in Reading Instruction and Diagnosis for English Language Learners**

Examines the techniques which can be used by the classroom teacher in evaluating reading progress and discovering the needs of English language learners, with methods for meeting these needs through differentiation of instruction and remediation in the classroom. (1/2)

Lecture: 3hrs/wk.

*Prerequisite: TESL 246 or TESL 346. Passing score on VCLA and Praxis I math or have met the SAT/ACT established pass score; application and approval by the Education Department.*

## **THEATRE ARTS**

*Professor Partin; Associate Professor Warren; Teaching Associates Arthur, Ruhland*

A total of 12 units is required for a major in Theatre. These must include the following Theatre courses: 125 (Stagecraft), 150 (Play Analysis), either 211 or (with permission of the faculty) 212 (Acting I or Acting II), 315 (Theatre History I), 316 (Theatre History II), 350 (Performance Theory), one unit of Dramatic Literature (i.e. 332, or appropriate 399), one unit of Independent Study/Internship and one unit of theatre workshop. In addition to the nine units above, a theatre major must include one of the following three areas of concentration:

**Performance:** THEA 111 (Voice and Diction), a second unit of acting (THEA 211 or THEA 212) and 450 (Directing);

**Design:** Two of the following three classes: THEA 225 (Scene Design), THEA 325 (Lighting Design), THEA 335 (Costume Design for the Stage) or one of the following course units in visual arts: ARTH 146 (Survey of Art History I: Prehistoric through Medieval), ARTH 156 (Survey of Art History II: Renaissance through Modern), ART 151 (Two Dimensional Design), ART 111 (Drawing I), or ART 181 (Sculpture I);

**Dramaturgy:** Two additional units of Dramatic Literature and THEA 320 (Playwriting).

### **Minor in Dramaturgy**

A minor in Dramaturgy requires six and one-half units, to include THEA 150, THEA 315, THEA 316, THEA 350, one unit of Dramatic Literature (332, 344, or appropriate 399), and two one-quarter credit courses in theatre workshop (one may be Pass/Fail, one must be graded). The final unit must be chosen from: THEA 125, THEA 211, THEA 212, or THEA 320.

### **Minor in Theatre Performance**

A minor in theatre performance requires six and one-half units, including THEA 111, THEA 150, THEA 211, THEA 212, and two one-quarter credit courses in Theatre Workshop (one may be Pass/Fail, one must be graded). The final two units must be chosen from: THEA 350, THEA 399 (appropriate to the minor), THEA 315, THEA 316, or THEA 450.

## **Minor in Theatrical Design**

A minor in theatrical design requires six and one-half units, including THEA 125 and THEA 150, two of the following three classes: THEA 225, THEA 325, or THEA 335, and two one-quarter credit courses in theatre workshop (one may be Pass/Fail, one must be graded). The final two units must be chosen from ART 111, ART 151, ART 181, ARTH 146, ARTH 156, THEA 315, THEA 316, and any one of THEA 225, THEA 325, or THEA 335 not already taken.

### **101 Appreciation of Theatre**

A survey of various aspects of the theatre with emphasis on theory of the art. (1)

Lecture: 3 hrs/wk.

### **103 Theatre Workshop**

Laboratory work designed to give the student experience in mounting a play on the stage. May be repeated for credit. (1/4).

Lecture: None; Laboratory: Approximately 50 hours/term.

*Prerequisite: Permission.*

### **111 Voice and Diction**

An overview of the use of voice in the theatre. (1)

Lecture: 3 hrs/wk.

### **114 Make-up for the Stage**

Lectures on and practical experience with the techniques used in stage make-up. Covers the materials and techniques for traditional stage make-up application, 3-D special effects, and prosthetics. (1)

Lecture-Laboratory: 4 hrs/wk.

*Prerequisite: Permission.*

### **125 Stagecraft**

Techniques and principles of scenery construction and other elements of technical production. (1)

Lecture: 3 hrs/wk.; Laboratory: 70 hrs/term.

### **150 Play Analysis**

A study of methods used by actors, playwrights, directors, and designers to critically examine a play for production purposes. (1)

Lecture: 3 hrs/wk.

### **199 Special Topics in Theatre and Drama**

Workshop experience in such production activities as audition techniques, stage combat, movement for the stage, and stage makeup. (1/4). May be repeated for credit.

Lecture/Laboratory: hours vary.

*Prerequisite: Permission.*

### **203 Theatre Workshop**

Practical application of theories of script analysis, acting technique, and technical skill. May not be taken Pass/Fail. May be repeated for credit. (1/4).

Lecture: None; Laboratory: hours vary.

*Prerequisite: Permission.*

### **210 Performance of Literature**

More advanced work on the oral presentation of prose and poetry. Designed to develop further the vocal skills learned in Theatre Arts 111. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Theatre Arts 111.*

### **211-212 Acting I, II**

The practical application of the fundamental principles of acting. (1, 1)

Lecture: 3 hrs/wk. for 211; 4.5 hrs/wk. for 212.

*Prerequisite: Theatre Arts 211 or permission for Theatre Arts 212.*

### **225 Scene Design**

Techniques and principles for designing scenery for the stage. Model building is central to project work as is basic drafting. Thumbnail and perspective sketching are incorporated in this class. (Extra materials required.) (1)

Lecture: 3 hrs/wk.

*Prerequisites: Theatre Arts 125 and Theatre Arts 150.*

### **299 Special Topics in Theatre and Drama**

Selected studies in specialized design, performance, or dramaturgical activities. May be repeated for credit. (1/2).

Lecture/Laboratory: hours vary.

*Prerequisite: Theatre Arts 150 or permission.*

### **303 Theatre Workshop**

Practical application of theories of script analysis, acting technique, and technical/design skill. May not be taken Pass/Fail. May be repeated for credit. (1/4).

Lecture: None; Laboratory: hours vary.

*Prerequisites: Theatre Arts 150, Theatre Arts 203 and permission.*

### **311 Video Field Production**

The study and practice of the fundamentals of professional videography. Students will receive instruction in practical applications in the areas of videography, editing, production, and media literacy. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Any Communications 200-level course or permission.*

(Cross-listed with Communications 311.)

### **315 Theatre History I**

A study of the history and literature of theatre from its primitive origins to ca. 1700. It covers major developments in production conventions and dramatic literature, with attention given to theatre's connections to society. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Theatre Arts 150 or permission.*

### **316 Theatre History II**

A study of the history and literature of theatre from ca. 1700 to present. It covers major developments in production conventions and dramatic literature, with attention given to theatre's connections to society. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Theatre Arts 150 or permission.*

### **320 Playwriting**

A practical introduction to the techniques of dramatic writing. Readings and possible studio productions of students' work. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Theatre Arts 150 or permission or appropriate coursework in literary analysis.*

### **325 Lighting Design**

Lighting theory and basic electrical principles for stage applications, including drafting of light plots and the development of instrument schedules, cue sheets, etc. Students will use the computerized lighting system to gain experience in cue writing and data entry. (Extra materials required.) (1)

Lecture: 3 hrs/wk.

*Prerequisites: Theatre Arts 125 and Theatre Arts 150. (Theatre Arts 225 recommended)*

### **332 Shakespeare**

Analysis of selected plays with oral interpretation. (Same as English 332) (1)

Lecture: 3 hrs/wk. Film-Laboratory: 2-3 hrs/wk.

*Prerequisites: Theatre Arts 150 or English 240 and one other 200-level English literature course. (Cross-listed with English 332).*

### **335 Costume Design for Stage**

A study of techniques and principles for designing costumes for the stage through the analysis of scripts and characters, research, thumbnail drawings and final drawn and/or painted renderings. (Extra Material required.) (1)

Lecture: 3hrs/wk

*Prerequisite: Theatre Arts 150 or permission.*

### **344 Modern Drama**

Traces major modern movements in theatrical theory and dramatic literature beginning in the mid-19th century with particular emphasis on the first half of the 20th century. (1)

Lecture: 3 hrs/wk.

*Prerequisites: Theatre Arts 150 or English 230 and 250.*

### **350 Performance Theory**

A course for advanced students focusing on theatrical, dramatic, and performance theory in the 20th century in relation to actual stage practice. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Theatre Arts 150 or permission.*

### **399 Special Topics**

Advanced studies in specialized design, performance, or dramaturgical activities. (1) May be repeated for credit.

Lecture-Laboratory: hours vary.

*Prerequisites: Theatre Arts 150 or permission.*

### **403 Theatre Workshop**

Advanced practical application of theories of script analysis, acting technique, and technical/design skill. May not be taken Pass/Fail. May be repeated for credit. (1/4).

Lecture: None; Laboratory: hours vary.

*Prerequisites: Theatre Arts 150, Theatre Arts 303 and permission.*

### **405, 406, 407 Independent Study and Research**

A program of advanced intensive study and experience in theatre under the guidance of the departmental staff. The student must submit a written proposal to the Department before the beginning of Examination Week of the term prior to the term in which the work is to be done. See departmental guidelines. (1/2, 1, 1/2)

Lecture-Laboratory: hours vary

*Prerequisites: Departmental approval of proposal and three graded (not P/F) one-quarter units of Theatre Workshop; Theatre Arts 405 or 407 is prerequisite to Theatre Arts 406.*

### **416 Internship**

Practical experience working in or with an artistic organization as participant-observer, leading to the preparation of a report which describes and evaluates that organization's activities. The student must submit a written proposal to the department before the beginning of Examination Week of the term prior to the term in which the work is to be done. See departmental guidelines. (1)

Lecture-Laboratory: hours vary

*Prerequisite: Departmental permission.*

### **450 Play Direction**

The principles, problems, and techniques of directing plays. (1)

Lecture: 4.5 hrs/wk.

*Prerequisites: Theatre Arts 150 and Theatre Arts 211.*

**495, 496, 497 Honors Project**

A program of independent study culminating in a paper, artistic creation, or performance.

*Prerequisites: To qualify for consideration to receive honors in the major, a student in his/her senior year or in the Summer prior to the senior year, must work under the guidance of his/her committee. A written proposal and application must be approved by the committee and department. A minimum GPA of 3.4 in the major is required. 495 Honors Project is prerequisite for 497 Honors Project. (1/2, 1, 1/2)*

**WRITING**

*Professor McGlaun, Writing Center Director*

Students from all academic disciplines may enroll in writing courses.

**306 Tutoring Across the Curriculum**

A study of writing and tutoring theory and pedagogy that provides the knowledge, skills, and strategies to support one on one and small group tutorials, writing-based workshops, and research projects in writing issues across the academic disciplines. Enrolled students work as Writing Center tutors. (1)

Lecture: 3 hrs/wk.

*Prerequisite: Intellectual Inquiry 110 and permission of instructor.*

Cannot be re-taken for credit.



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## DESTINATION ROANOKE COLLEGE

### By Car

If you are driving to Roanoke from outside the region, take Roanoke College Exit 140 off Interstate 81. Turn right on Route 311 (Thompson Memorial Drive). Take a right on Peery Drive and a left on High Street. Roselawn, the Admissions and Financial Aid Office, is located on High Street. Visitor parking is available in the Upper Olin Hall lot (P-10) on High Street and directly in front of Roselawn (P-20).

### By Air

The Roanoke Valley Regional Airport is served primarily by USAir, United Express, and Delta Commuter Airlines. Persons wishing to fly to Roanoke will find flights available from such cities as: Atlanta, Baltimore, Charlotte, Chicago, New York, Washington D.C., and many others. Roanoke College is located six miles from the airport, and transportation to the College is available through limousine service, taxi or by rental car.

### By Bus

The Roanoke Valley is serviced by Greyhound Bus Lines, which is located in downtown Roanoke, a 15-minute drive to the College. Call toll-free 1-800-231-2222 for information.

### Regional Highway System

From northern New England, take I-91 south to I-84 west at Hartford, CT, to I-81 south near Scranton, PA.

From New York City, take I-95 to the New Jersey Turnpike south to I-78 west at Newark, NJ, to I-81 south near Harrisburg, PA.

From Philadelphia, take I-76 (Pennsylvania Turnpike) west to I-81 south near Harrisburg, PA.

From directly east at Richmond, VA, take I-64 west to I-81 south near Staunton, VA.

From south of Virginia, take I-85 north from Atlanta (or I-95 north from Savannah, GA, and I-26 west) to I-77 north at Columbia, SC, to I-81 north near Wytheville, VA.

From west of Virginia, take I-64 east to I-81 south or I-40 east to I-81 north.

Fall Term

August	28	Saturday	New Students Move In/Check-In
	29	Sunday	Orientation For New Students
	30	Monday	Orientation For New Students; Residence Halls Open For Returning Students
	31	Tuesday	Registration/Check-In; Evening classes begin
<b>September</b>	1	Wednesday	Day Classes Begin
<b>October</b>	1-2	Fri-Sat	Family Weekend
	15	Friday	Fall Break Begins After Last Class
	25	Monday	Classes Resume 8:30 a.m.
<b>November</b>	23	Tuesday	Thanksgiving Break Begins After Last Class; No Evening classes will be held
	29	Monday	Classes Resume 8:30 a.m.
<b>December</b>	10	Friday	Last Day of Classes
	11	Saturday	Reading Day
	13-17	Mon.-Fri.	Exams
	20	Monday	Grades Due at Noon

Spring Term

<b>January</b>	16	Sunday	Residence Halls Open For Spring Term; Registration/Check-In
	17	Monday	Classes Begin
<b>March</b>	4	Friday	Spring Break Begins After Last Class
	14	Monday	Classes Resume 8:30 a.m.
<b>April</b>	15-16	Friday-Sunday	Alumni Weekend
	22	Friday	Good Friday, Last Day of Classes
	25	Monday	Easter Monday, No classes
	26	Tuesday	Reading Day
	27	Wednesday	Exams Begin
<b>May</b>	3	Tuesday	Exams End
	4	Wednesday	Senior Grades due at noon
	7	Saturday	Graduation
	9	Monday	Final Grades due at noon

Academic Advising .....	Fintel Library
Admissions .....	Roselawn
Alumni Relations .....	Fowler
Art Galleries .....	Olin Hall
Athletic Offices.....	Bast Center
Auditorium.....	Massengill
Basketball Arena.....	Bast Center
Boardroom .....	Fintel Library
Bookstore.....	Colket Center
Business Office.....	College Hall
Campus Safety .....	Bowman Hall
Career Services .....	Fowler Alumni House
Chaplain.....	Chaplain/Counseling
Church Relations .....	Resource Dev.
Commons/Dining Room.....	Sutton Commons
Community Programs .....	Olin
Computer Center.....	Trexler
Counseling Center .....	Counseling/Chaplain
Dean of the College .....	Admin.
Dean of Students.....	Alumni Gym
Dining Services.....	Sutton Commons
Disability Support Services.....	Fintel Library
Financial Aid .....	Roselawn
Fitness Center .....	Belk Center
Goode-Pasfield Center for Learning & Teaching.....	Fintel Library
Hall of Fame (Athletic).....	Bast Center
Health Services .....	See Map
Human Resources .....	College Hall
Information Technology .....	Trexler
International Programs.....	Admin.
Language Lab .....	Lucas Hall
Library .....	Fintel Library
Media (A/V) .....	Fintel Library
Multicultural Affairs .....	Alumni Gym
Parking Info .....	Bowman Hall
Pool.....	Alumni Gym
Post Office (Campus) .....	Colket
President .....	Administration
Print Shop .....	Life Sciences
Public Relations .....	Annex
Recreation/Fitness.....	Belk Center
Registrar.....	Administration
Residence Life .....	Alumni Gym
Resource Development.....	SeeMap
Student Activities.....	Colket Center
Student Affairs.....	Alumni Gym
StudentCenter .....	Colket Center
Telephone Receptionist (daytime).....	Trexler
(evening).....	Bowman Hall
Theater .....	Olin Hall
Tutoring.....	Fintel Library
Upward Bound.....	Annex
Virginia Lutheran Synod .....	Bittle
Visitor Center (days).....	Roselawn

(evening) .....Bowman Hall  
Writing Center.....Fintel Library