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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 Office of Academic Services stand ready to answer questions.

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.

John T. Day

Vice President and Dean of the College

Catalog Policy

This Catalog describes the academic policies and programs of Roanoke College in effect at the time of publication. It is not, however, to be understood as an irrevocable contract between the student and the College. 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 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 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 new 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

Roanoke College is dedicated to educating men and women in high standards of scholarship to prepare them for responsible lives of learning, service, and leadership. In pursuing this goal, the College is committed to an integrative approach to education that strives to balance intellectual, ethical, spiritual, and personal growth.

The College pursues its mission through an innovative curriculum that includes a cohesive core of liberal arts as well as specialized, career-oriented programs of study. Students are encouraged to develop the habits of mind, aesthetic appreciation, and cultural awareness needed to thrive in a global society. Moreover, the College provides opportunities for students to take part in community service, to engage in ethical and social issues, to participate in religious life, and to further their physical and social well-being.

The College supports its mission by ensuring excellent teaching, providing for communal activities and residence life, and maintaining an attractive campus in the Blue Ridge Mountains. 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, and is committed to seeking new ways to serve its students and community.

How Roanoke College Began and Why It Continues

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 which raised the school to college status, and the trustees changed its name to Roanoke College.

Today Roanoke is the center of learning for its 1,750 students – a place where tradition and innovation blend into reality. 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 (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award the Bachelor of Arts, Bachelor of Science, and Bachelor of Business Administration degrees.

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.

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 employees, students, or applicants on the basis of race, sex, disability, age, veteran status, national origin, religion, 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 86 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 http://www.orau.gov/orise/resgd/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, and various services to chief research officers.

For more information about ORAU and its programs, contact ORAU Councilor, at 540-375-2203; contact Ms. Monnie E. Champion, ORAU Corporate Secretary, at 865-576-3306; or visit the ORAU Home Page at http://www.orau.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 provides an opportunity for students to become acquainted with various cultural backgrounds as well. 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 and, together with Miller Hall, Trout Hall, and Bittle Hall which flank it, is registered as a Virginia and National Historic Landmark.

The recently renovated and expanded Fintel Library has a collection containing over 198,000 volumes, over 750 journal subscriptions, as well as microfilm collections and numerous audio-visual materials. Additionally, the library has access to 10,000 periodicals and newspapers, full text online. It is a selective depository library for 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 College Chaplain, 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 in Trout Hall 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 afternoon in Antrim Chapel.
Faculty
Through Roanoke's faculty of approximately 100 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 strongly suggested 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 and transfer students usually begin their degree programs with the Fall term in August, but students are also considered for admission in January, May and June. Freshmen applications should be received by March 1 for admission in August and approximately four to six weeks prior to the other entry times. Transfer applications are reviewed on a rolling basis, but applicants are encouraged to submit their paperwork early. An application fee of $30 must accompany the completed application. This fee is non-refundable and is used for processing an applicant's credentials. A waiver of this fee requirement is possible if the applicant can demonstrate financial need and requests consideration for exception from the Admissions Office.

Although the deadline for freshman applications is March 1, students are urged to submit their applications by December 15. Applications received after March 1 will be considered as space permits. Students will be notified of a decision by April 1.

1. Early notification may be offered to students who possess strong academic records and who apply by December 15. These students are chosen on the basis of their SAT/ACT scores, class rank, grades, and course of study. Early notification applications will be considered in the order in which they become complete and ready for review. Students selected for early notification will be notified immediately following the admissions decision.

Early Decision
Students who have carefully researched their college alternatives and concluded that Roanoke College is their first choice should apply under the Early Decision Plan. 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. Early Decision applications and supporting credentials should be received by November 15. Either the Scholastic Aptitude Test (SAT I) 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 Fall or early Winter of the senior 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 I and 4392 for the ACT.

Early Decision Candidates will be notified by November 30 and are committed to enroll at Roanoke College. The deposit deadline for Early Decision students is January 15.

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), or through the Internet (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 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) from 9:30 a.m. to 2:30 p.m.

A student who anticipates a visit to the College should write or call in advance for an appointment (see numbers above).

Freshman Application Procedure
The Admissions Committee places primary emphasis on the applicant’s secondary school record. Subjects taken, grades, SAT I or ACT scores, and class rank are among the more
ADMISSIONS

College has stipulated who is 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 [or 190 computer-based]. International students whose native language is not English, may also choose to take the APIEL exam in place of the TOEFL exam. The minimum APIEL score for admission is 3. Roanoke College is an affiliate of ELS Language Centers worldwide and accepts ELS level 112 in lieu of the TOEFL to certify competence in English. An advanced ESL course (LANG 101) is taught on campus each Fall semester for credit.

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. International students must submit a formal autobiographical essay of two pages, written in English, discussing why the student wishes to study at Roanoke College.

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 may qualify for some merit-based financial aid. Superior results on the Scholastic Achievement Test or the ACT will be taken into consideration when awarding partial scholarships.

Students with Disabilities

Individuals with disabilities are encouraged to visit Roanoke College prior to the beginning of their first term. A personal
visit enables the student and College representatives to meet and determine how the College can best serve the student’s particular needs. Persons with 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 and is located in Bowman Hall.

Students with a diagnosed learning disability must send a copy of psycho-educational testing results to the Assistant Dean for Academic Affairs. The results should be dated no earlier than twelve months before date of application. 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 Assistant Dean. All requests are handled on a case-by-case basis.

At the beginning of each term, a student’s professors will be informed of the specific nature of his or her disability. It is the student’s responsibility to speak with his/her professors and arrange for any necessary accommodations that may benefit performance in a course. If a student prefers that instructors not be notified of a disability, the College will comply with those wishes upon written notice to the Assistant Dean for Academic Affairs.

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, support, and special incentives to allow adult students to attend college. The incentives include career services, non-credit seminars to prepare program participants for college, day and evening courses, and financial aid for part-time, degree-seeking adult students.

To qualify for the Opportunities Program, students must be at least 25 years old and satisfy the following requirements:

- A high school diploma or GED; a high school transcript;
- Satisfactory completion of Algebra II; Scholastic Aptitude Test, 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 an 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 grades 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 eligible for awards from many of the programs, students must have a demonstrated financial need. Scholar qualifications are important, however, and consideration is given to those who have demonstrated academic talent and potential.

The Financial Aid staff determines who will 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). Virginia students who do not receive the Virginia Tuition Assistance Grant (TAG) in the prior Spring term must file a TAG application by July 31. These forms are available from the College Financial Aid Office. To be considered for financial aid, the student must have been admitted to the College and plan to enroll as a degree-seeking student.

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 Commonwealth Award
- Roanoke College Area Award
- Lutheran Student Aid Programs
- Virginia Tuition Assistance Grant Program
- Virginia College Scholarship Assistance Program
- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Perkins Loan
- Federal Work-Study Program (FWS)
- Federal Subsidized Stafford Loan Program
- Federal Unsubsidized Stafford Loan Program
- Federal Parent Loan for Undergraduate Students (FPLUS)
- Support from Independent Financial Organizations

*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 four different awards.

The William Beard Scholarship provides students with a full tuition, room, and board scholarship. The Bittle Scholarship provides full-tuition scholarships for entering freshmen. The Baughman Scholarship, which along with other college assistance will equal at least half tuition at Roanoke College, or $2,500 annually, whichever is greater. The Faculty Scholarship will provide a $1,000 scholarship, over and above any other college-based awards, to those candidates who are selected as finalists and are not selected for the Beard, Bittle, or Baughman Scholarships.

All awards are renewed annually based upon the student’s grade point average.

**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 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. The faculty and staff of Roanoke College have a professional and personal right to perform their duties without harassment or obstruction. Students are expected to accomplish their academic and personal responsibilities to the community without assistance from either prearranged sources of information or from individuals.

RESIDENCE LIFE

Living on campus can be an important part of the Roanoke educational experience. 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 relatives, those who are at least 23 years old (before the beginning of the term during which they desire to live off-campus), or those who have been given prior approval by the Office of Student Affairs, are required to live on campus. Part-time students must receive permission from the Office of Student Affairs to reside on campus.

Residence hall space is reserved for a student after the individual has been admitted and has paid the deposit. Notification of room assignment is usually sent to new students in late July.

Rooms are furnished with single beds (extra long mattress), dressers, closets or wardrobes, desks, and chairs. Resident students generally bring linens (extra long), bedspreads, blankets, pillows, trash cans, and other personal articles. Housekeeping service is provided to clean common areas, but students are expected to maintain their individual rooms. A room key and exterior door key are issued to each resident student. Each residence hall complex 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.

Each building is represented on Inter-Hall Council by an appointed resident representative. The residents advise the administration of matters affecting residence hall living, purchase equipment for residents’ use, and plan and implement hall programs.

Coin-operated washers and dryers are available for use by resident students. The College permits personal telephones in individual rooms at the student’s expense. The service charge is included in the telecommunications fee for resident students. Public telephones are available also.

Rooms in residence halls are rented only for those periods of time that the College is in regular session as specified by the College calendar. Room changes must be approved by the Residence Life Office.

The Resident Student Comprehensive Fee includes room and board 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.

CAMPUS ACTIVITIES

Campus-wide social and co-curricular activities are coordinated through the Colket Center Activities Office located in the Colket Center. The Assistant Dean of Students 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.

The Outdoor Adventure 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 bodies, including the Board of Trustees Committee on Student Affairs, 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.

Students also edit, publish, and manage the yearbook, *The Ravenoch*. The yearbook is intended to be a personal keepsake and a record of the College year.


Students manage a radio station, which broadcasts a variety of programming periodically during the academic year.

**Art, 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, creative involvement in art, 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 mainstage 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; a special media room equipped 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 the visual arts, 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. Running parallel to an active studio program for students is the Olin Hall gallery program, which presents many art exhibitions and events complementing the art 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 senior art student exhibition held each year in the Olin and Smoyer Galleries.

In music, a student may audition for the Roanoke College Choir or Women’s Chorus, which perform at special events and on-campus and off-campus programs throughout the year. A Spring tour is often a part of each choir’s schedule. In addition to voice training and performance, instrumental groups include the Wind Ensemble, Chamber and Jazz Ensembles, and Pep Band. 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 *Crimes of the Heart*, *Footloose*, *Trojan Women*, *Dracula*, *Extremeties*, *The Glass Menagerie*, *The Skin of Our Teeth*, *Hedda Gabler*, *Bus Stop*, *The Heidi Chronicles*, and *Godspell*. Participation in theatre at Roanoke College gives students experience in acting, make-up, set and costume design, lighting, publicity, and other phases of production. This experience is available to students from all majors at the College.

**Athletics**

Students have an opportunity to participate in intercollegiate, club, intramural, and recreational sports and activities.

Roanoke has excellent facilities to support every phase of a well-rounded athletic program. There are three athletic fields and an all-weather track with seating for 1,400, and playing and practicing fields for soccer, lacrosse, and field hockey. Tennis courts are located near the gymnasium. The 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.

The 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.

The intramural and recreational programs provide a wide variety of team and individual activities. Additional sports and games are played as coed teams or on an individual basis. Club sport activities include men’s lacrosse, cheerleading, men’s ice hockey and dance.
Social Fraternities and Sororities
Seven 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)
- Kappa Alpha, Beta Rho Chapter, 1924 (revived 1987, men)
- Phi Mu, Gamma Eta Chapter, 1955 (women)
- Sigma Chi, Tau Chapter, 1872 (revived 1923, men)
- Pi Kappa Alpha, Phi Chapter, 2001 (men)

STUDENT SERVICES
The Office of Student Affairs coordinates the student service areas of student life, residence hall management, student conduct, student activities, health services, safety and security services, and athletics.

Campus Safety (Bowman Hall)
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 sworn Conservators of the Peace 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 these buildings: Lucas Hall, Miller Hall, Trexler Hall, Life Science Building, Trout Hall, Olin Hall, Fintel Library, Alumni Gym, Bast Center, and Courthouse. Yellow “Access/Emergency” telephones are located outside each residence hall main entrance.

Each Fall Roanoke College publishes an “Annual Security Report” with the Higher Education Act of 1965 as amended by the Higher Education Amendments of 1998. The 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 report is distributed to all students and is available to prospective students upon request by contacting the Admissions Office. The report can also be found at the Campus Safety web page at http://home.roanoke.edu/safety/welcome.

Health Services
Student Health Services provides on-campus medical treatment for common illnesses and minor accidents. There is no charge for most routine health care for full-time students. Fees are charged for laboratory work, allergy shots, inhalation therapy, and gynecological and physical examinations.

Entering freshmen and transfer students are required to have on file in the Student Health Center a completed current medical history, physical examination, and an updated immunization record. Students will not be allowed to register for classes until these have been completed.

The clinic is open Monday–Friday during the day. Care is available from two nearby immediate care centers or from the local hospital when the clinic is closed.

Counseling Center (Trout Hall)
The years at college can be among the most gratifying and challenging of a person’s life. For traditional-aged students, choices will be made about life-style and vocation while wrestling with issues of personal growth and the transition into adulthood; these choices and changes often bring confusion. For adult students, new choices and changes and academic pursuits may add to ongoing personal and work responsibilities. The Counseling Center is prepared to meet the needs of the College community with compassion and honesty. The counseling staff provides on campus both short- and long-term counseling which is free of charge. The Center is located in Trout Hall and appointments can be made in person or by telephone.

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 the Student Handbook and 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, the Student Conduct Code of Roanoke College, and the Motor Vehicle Policy. 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 them with the Office of Campus Safety, and display the 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. Complete parking and motor vehicle policies are distributed to students each Fall.

Consideration for Others - Students are expected to observe and respect the rights of others. 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 is a violation of College policy and state law. Any student violating this policy is subject to severe disciplinary action including suspension or expulsion. Law enforcement agencies are notified of 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.

College Charges

TUITION, ROOM AND BOARD FOR FULL-TIME STUDENTS

Resident Students  Those students who both live and board on campus, per academic year: $25,524.

Commuter Students  Those students who do not live and board on campus, per academic year: $19,186.

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 $457.50.

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 $915.

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 percent 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 percent off of the tuition cost for credit courses. Qualifying senior citizens receive a 50 percent 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, any student taking an additional intensive learning term course(s) will be required to pay a tuition charge at the rate of part-time tuition ($915 per unit).
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  $915.00 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.

<table>
<thead>
<tr>
<th>Category</th>
<th>Room</th>
<th>Board</th>
<th>Telecom Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Campus 3 weeks</td>
<td>$ 285.00</td>
<td>$ 423.00</td>
<td>$ 30.00</td>
</tr>
<tr>
<td>On-Campus 2 weeks</td>
<td>$ 190.00</td>
<td>$ 282.00</td>
<td>$ 20.00</td>
</tr>
<tr>
<td>On-Campus 1 week</td>
<td>$ 95.00</td>
<td>$ 141.00</td>
<td>$ 15.00</td>
</tr>
</tbody>
</table>

The Student Activity Fee of $25 and the Technology Fee of $31 will only be charged to students enrolled in one of the first three categories listed above. Students enrolled in courses involving off-campus travel will be responsible for the travel costs associated with the specific course.

Non-Travel Courses

Refunds  A 100 percent refund of tuition, housing and fees paid will be given to those students who drop an IL term course on or before April 18. No refunds will be issued for students dropping an IL course after April 18. There will be a late drop fee of $100 charged to any student who drops the course after April 18, as well as a late fee of $100 for students pre-registering for an IL term course after April 18.

Foreign Travel Courses

The initial non-refundable deposit for all foreign travel courses is $250 and is due by December 1st. The tuition charge, if applicable, for these courses will be equivalent to the part-time tuition rate of $915 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 non-refundable.

Miscellaneous Expenses

Activity Fee  A student activity fee will be charged to all students as follows; $115.00 per semester for all full-time students and $30.00 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. MUSC 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.

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 $457.50 per unit for enrolled students and $915.00 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.

Graduation Fee  All graduating students are charged a fee of $75 that covers the cost of cap, gown, diploma, ceremonies, etc. Students that choose not to participate in the graduation ceremonies are still responsible for this fee.

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 $10 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 on the appointed day(s).
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 non-refundable.

Parking  A $35 nonrefundable fee will be charged for parking decals to students parking on campus. Parking fines range from $10-$50. See Motor Vehicle Policy in the Student Handbook for details.

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

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 $5.

Single Room Fee  There is an additional charge of $200 per semester for resident students who are housed in a single room.

Student Discipline  Fines are part of the available disciplinary sanctions.

Technology Fee  A $150 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 $125.00 per semester will be charged for installation and use of basic telephone service, cable television and network access through each student’s computer. This fee is for each on-campus resident student. Long-distance charges incurred by individual students will be billed directly on a monthly basis.

Variable Expenses  You will need to purchase textbooks for your college classes. Books will cost approximately $700 for each of the four years of your studies. Personal expenses for transportation, laundry, and incidentals should also be used in your calculation of expenses.

Method of Payment

Advance Deposit  An advance deposit is required for all students for the Fall and Summer term. 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:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Students</td>
<td>$750</td>
</tr>
<tr>
<td>Commuter Students</td>
<td>$500</td>
</tr>
<tr>
<td>Part-time Students</td>
<td>$100</td>
</tr>
<tr>
<td>Summer</td>
<td>$125 (non-refundable)</td>
</tr>
</tbody>
</table>

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

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

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

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 15 will forfeit $250 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). For a small enrollment fee of $55, TMS offers several interest-free monthly payment options by providing more manageable cash flow and greater budgeting flexibility. The most popular of the payment plans is a 10-month plan that begins May 1st and runs through February 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
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.

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 percent 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’s 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.

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 (pro-rated 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 that/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 re-instatement 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 SERVICES

Office of Academic Services
The Office of Academic Services 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 Office of Academic Services coordinates academic advising for freshmen and undeclared students. Faculty and full-time 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, co-curricular, and service 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 15, the Office of Academic Services will send all new freshmen and transfer students (who have made their advance deposit with the Admissions Office) a packet of pre-registration materials. During a telephone appointment with an academic advisor, new students will be able to 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 orientation program and to finalize the registration process at that time.

SPECIAL STUDENT SERVICES
The Office of Academic Services maintains the documentation of students with diagnosed learning disabilities and Attention Deficit Hyperactivity Disorder. The staff also notifies faculty members of reasonable accommodations to be made for particular students. Services such as extended-time testing and the tape recording of classes are facilitated by the office.

PEER TUTORING PROGRAM
A centralized peer tutoring program is housed in the Fintel Library. 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.

FRESHMAN RETENTION
A recent study shows that approximately 78 percent of full-time freshmen entering in the Fall return in the next Fall. This compares favorably with the national average for four-year private colleges.

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 and parents 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 2001 campaign for Governor and a community impact study of Roanoke College and statewide surveys during the 2000 Virginia Senate and Presidential Campaigns.
Information Services

The Information Services department manages all computer 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 eight student computer laboratories with 150 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 200 microcomputer applications are available including spreadsheets, word processing, and database applications from the student computer laboratories. Sixty computers also run the UNIX 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. Within the first several weeks students are introduced to these services through freshmen advising groups and workshops conducted by Information Services.

Computers are an integral part of the curriculum at Roanoke College. The General Education Curriculum as well as the Computer Science and Computer Information Systems curriculums rely on the excellent access to information and services provided by RCNet.

Libraries

FINTEL LIBRARY

Named in honor of Dr. Norman Fintel, eighth president of Roanoke College, and his wife, Jo, the Fintel Library offers 433 seats, including individual and group study carrels. The Library subscribes to over 750 periodicals and newspapers and has in excess of 198,000 volumes in open stacks. Additionally, the library has access to 10,000 periodicals and newspapers full text online. It is a selective depository library for United States Government Documents.

The Fintel Library shares an integrated computerized Library catalog with Hollins University. This allows for searches of both libraries’ holdings, including books, periodicals, audio-visual materials (videotapes, DVDs, laserdiscs, audiotapes, etc.), and government documents. Searches may be done in the Library or from its webpage, www.roanoke.edu/library. Library books requested from Hollins are delivered by courier, Monday-Friday, while classes are in session. Material not available in the Fintel/Hollins catalog can usually be obtained through Interlibrary Loan, which enables patrons to borrow books and other materials via a worldwide computer network.

The Library provides access to web-based research systems for searching journal and reference sources, as well as the holdings of other Virginia libraries and academic libraries worldwide. Other services are listed on the library’s webpage.

The Fintel Library houses the Roanoke College Archives. In addition to the College’s archival materials, it also includes 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 is dedicated to assisting students with informational and research requests. Individual reference appointments may be scheduled for assistance with research. Bibliographic instruction classes (including internet workshops) and tours are also available. The library staff welcomes suggestions for service and materials; suggestions may be made via the library computer system or in person.

FINTEL LIBRARY HOURS

FALL/SPRING SEMESTERS

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Mon - Thurs</td>
<td>8:00 a.m. - 12:00 midnight</td>
</tr>
<tr>
<td>Friday</td>
<td>8:00 a.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>12:00 noon - 5:30 p.m.</td>
</tr>
<tr>
<td>Sunday</td>
<td>12:00 noon - 12:00 midnight</td>
</tr>
<tr>
<td>Open 24 hours during final exams.</td>
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</tr>
</tbody>
</table>

MAY/SUMMER SCHOOL SESSIONS

Hours vary; please consult the calendar section of the Library webpage http://www.roanoke.edu/library/calendar

BREAKS

<table>
<thead>
<tr>
<th>Days</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday - Friday</td>
<td>8:00 a.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Saturday - Sunday</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Media Services

Roanoke College Media Services, with offices located on the first floor of the Fintel Library, is a full-service facility for the audio-visual needs of the campus. Media Services provides audio-visual carrels for viewing and listening to media materials, and equipment for use in preparing and giving presentations.

The Media Services staff are also available to assist students, faculty, and staff with their presentations. Full-time Media Services staff are available Monday – Friday, 8:00 a.m. to 4:30 p.m., and other hours by arrangement.
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.

CABELL BRAND LIBRARIES
The Libraries of the Cabell Brand Center for International Poverty and Resource Studies is a research study and action center which examines, understands, and networks the interrelation of two of society's most important issues: the short-term and long-term implications of international poverty, and world resource usage and potential limitations with environmental interrelationships.

The Center, with its various programs, and library and networking facilities, offers both an opportunity and challenge to students to study the two critical issues of resource limitation and global poverty and to become involved in action programs of their choice. You may visit the Center's Homepage at http://www.cbcenter.org

ACADEMIC REGULATIONS AND PROCEDURES

NOTE: The information that follows applies to students entering beginning Fall 1999 under the new Centers of Distinction Curriculum. Students previously enrolled and transfers entering prior to Fall 2000 should consult the 1998-99 academic catalog for their requirements.

Advisement
Academic advisors are faculty and staff members who are available for consultation and advise 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 Office of Academic Services.

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 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 by completing and submitting the appropriate forms during designated periods. Pre-registration and registration information, including times and locations, is provided by the Office of the 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’ transcripts. 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), one-fourth unit of co-curricular credit, and two one-fourth units of physical education activities (or the equivalent) should be completed over a four-year period.

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 $457.50 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.

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), three Summer sessions.
ACADEMIC POLICIES

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. Before beginning their course work at Roanoke, 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, 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.

Penalties, which vary according to the severity of the violation and the circumstances of the case, range from a written reprimand to 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) to 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.

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.

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 permission from the student’s advisor, the Office of the Registrar, and – for adding courses – the individual instructors. Course changes must be submitted to the Office of the Registrar before the deadlines given 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 is required. In addition, a different examination must be given.

**Academic Credit and Classification of Students**

**Credit and 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).

**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; (3) a score of 670 on the SAT I:Verbal and no secondary school grade in English lower than a “B” or its equivalent; (4) a score of 620 on the SAT I:Verbal together with a ranking in the upper one-fifth of the secondary school graduating class. Credit for General Studies 101 may be granted for the achievement of a score of four or five on the Advanced Placement Examination in Language and Composition or in Composition and Literature.

**Foreign Language** Competency in a foreign language may be attained by achievement prior to enrollment at Roanoke College. Competency will be awarded to students who earn: (1) a minimum score on the SAT I Subject Test in a Foreign Language (at least 590 for French, 580 for Latin, and 570 for other languages), or (2) a score of 3 on the Advanced Placement Test. Students who successfully complete a 102-level foreign language course will be awarded competency at the 101 level. Competency through the intermediate level may be earned by taking a standardized placement test and demonstrating competency through the 202 level. Academic credit in a foreign language will be awarded for a score of four or five on the Advanced Placement Test.

**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 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 one year of high school theory, with a grade of “B” or better.
Physics  Competency may be attained in Physics 101 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. Competency will also be awarded (golf, tennis, swimming, racquetball, bowling, badminton) for successful completion of both a written rules and practical performance exam administered at a scheduled time during orientation at the beginning of each Fall term. The exam is open only to new students during their first full term.

Political Science  Competency may be attained in American National Government (Political Science 102) and/or Modern Politics (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 102) and/or Modern Politics (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 a “C-” (or equivalent) 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. 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 one-half of the minimum number of units required to graduate from Roanoke College (excluding physical education activity courses and co-curricular learning and service) 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. 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, Re-Admissions, and Appeals.

Through long-standing, consortial agreements with Hollins University and Wagner College, 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 either institution, assuming that the courses concerned are not currently available to the student through Roanoke College.
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. Co-Curricular Learning and Service carries one-eighth unit of credit per term.

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 eight 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

GRADXES AND QUALITY POINTS
Student work is graded according to the following scale:

<table>
<thead>
<tr>
<th>LETTER GRADE</th>
<th>QUALITY POINTS PER UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
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<tr>
<td>B-</td>
<td>2.7</td>
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<td>C+</td>
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<tr>
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<tr>
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<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
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</tbody>
</table>

P  (Work passed under pass/fail) Not Assigned
W  (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.)

WP (Withdrawn from course passing) Not Assigned
WF (Withdrawn from course failing) 0
DP (Involuntarily withdrawn from course passing) Not Assigned
DF (Involuntarily withdrawn from course failing) 0
XF (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 OPTION
The primary purpose of the pass/fail option is to encourage students to explore an unfamiliar academic area without fear of lowering their cumulative grade point average.

In addition to internships and co-curricular activities which must be taken on a pass/fail basis, students may complete one elective course on a pass/fail basis. The 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.

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.

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 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 designation, thus reverting to having a letter grade recorded for the class. The student will then be eligible to enroll in another course on a pass/fail basis, but a student may enroll in only one course on a pass/fail basis 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 GPA.

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.
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 Assistant Dean for Academic Affairs.

**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 Webpage.

**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 the next regular term, May term, and Summer school sessions in which to raise their cumulative grade point average to the required minimum for their classification. A student placed on warning at the end of a Fall term would have through the Summer to bring up his/her GPA; a student placed on warning at the end of Spring term would have through the Fall term to bring up
the GPA. 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 been suspended twice and subsequently fail to make 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, are permitted to complete eight units or two regular terms of full-time enrollment (whichever comes first) before being considered for further academic suspension.

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 equity.

Appeals regarding General Education 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.

READMISSION PROCESS FOR SUSPENDED STUDENTS

Students placed on academic or disciplinary suspension 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 advises 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 appeals 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.
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 3.5 or above, 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).

Faculty’s List of Honorable Mention  Students whose semester grade point average for any Fall or Spring term is at least 3.0 but less than 3.5 and who meet the criteria for the Dean's List stated above are recognized by the designation of honorable mention for scholastic achievement.

Faculty’s List of Notable Achievement  Students are placed on the Faculty List of Notable Achievement if their semester grade point average for any Fall or Spring term is 3.0 or above, with no grade below “C” in any course. The student must have been enrolled for credit in at least one one-unit course and fewer than four one-unit courses, all of which were for a letter grade (excluding pass/fail and audit).

These honor lists will be determined by grades as recorded at the end of the Fall or Spring term in December and May. Grades earned during the Summer session and May term are not used in the compilations.

For requirements for junior and senior Scholars, Degrees with Distinction, Valedictorian and Salutatorian please note: The information that follows applies to students entering beginning Fall 1999 under the new Centers of Distinction Curriculum. Students previously enrolled and transfers entering prior to Fall 2000 should consult the 1998-99 academic catalog for their requirements.

JUNIOR AND SENIOR SCHOLARS

Junior Scholars  A student classified as a junior as of 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 field of concentration 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 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 physical education 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:

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 Kappa Delta National honorary society recognizing superior achievement in sociology.

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 open to economics majors with excellent academic standing.

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.

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.

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.

**Athletic Department Outstanding Athlete Awards**
Trophies are presented annually by the Roanoke College Athletic department to the male student and the female student selected by their peers as the most outstanding athletes for the current year.

**Athletic Scholarship Prize**
A certificate awarded annually by the athletic department to any regularly classified student who attains the highest cumulative academic average among those who win the College “R” in athletics.

**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. 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 staff.

**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.

**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 216 internship and the EDUC 318 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.

**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 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.

**Criminal Justice Prize**
A prize awarded annually to that graduating senior majoring in criminal justice who has demonstrated academic excellence and outstanding potential for continued scholarly growth.

**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.

**Guy E. Eckman Independent Study Award**
A prize in money made possible through gifts from friends in memory of the late Guy E. Eckman, a professor of psychology at Roanoke College. An award is given each semester to the student whose work has been judged most outstanding from among those submitted to a faculty panel.

**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.

**Fine Arts Prizes**
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.

**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.
Henry H. Fowler Public Policy Paper Awards
Prizes either in graduate scholarship assistance or money for the most outstanding undergraduate research papers dealing with U.S. public policy since the 1930s. The competition is held in May of each year, and any student enrolled for credit during the preceding 12 months whose entry has never been critiqued in a competition is eligible. For information, see Dr. C. William Hill Jr., department of Public Affairs, 375-2423.

Herta T. Freitag Mathematics Award  This award was created 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.

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.

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 majors.

International Relations Award  An award presented 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.

Kendig American Scholar Award  An award established in 1976 as a lasting reminder by the College Bicentennial Committee and named for the late Dr. Perry E. Kendig, President, Roanoke College, 1964-1975. It is presented to the valedictorian of each graduating class.

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.

Philip C. Lee, Jr. Memorial Scholarship  An award made annually to 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 honor of Philip C. Lee, Jr., 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. Linsey 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.

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.

George C. Marshall Undergraduate Scholarship Award  This annual prize is awarded by the George C. Marshall Research Foundation for study resulting in a paper researched in the Library and Manuscript Collections in Lexington, Virginia. The recipient, an outstanding junior or senior in history or political science, is selected with the approval of the Marshall Foundation.

F. Miller Prize  This prize is awarded annually to an upper-class student who demonstrated a commitment to campus life at Roanoke College. The student will also have a demonstrated financial need.

Andrew Murphy Science Award  An award given annually to the most worthy graduating senior who has shown outstanding ability in the physical sciences. A preference is given to seniors who major in chemistry or have a stated interest in research.

Organic Chemistry Award  A certificate of accomplishment and the interactive computer course “Introduction to Polymer Chemistry,” given by the Division of Polymer Chemistry of the American Chemical Society, is presented to the outstanding student in the two-semester organic chemistry course.

Outstanding Sophomore Physical Education Major Award  This award recognizes a sophomore Physical Education 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 Physical Education Major) plaque.

**Outstanding Students in Business Administration, Economics, and Computer Information Systems**
A prize in money presented annually to seniors in business administration, economics, and computer information systems who have excelled in the field.

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

**Mamie S. Patterson Foreign Language Department 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.

**Dr. George G. Peery Achievement Award** An award given annually, the Peery Achievement Award was established in 1986 in honor of Dr. George G. Peery, former chair 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.

**Physical Education Award** A one-year membership in the American Alliance of Health, Physical Education, Recreation and Dance and a cash award presented by the Department of Physical Education to an upper-class physical education major who has excelled in work performed during the past year.

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

**Harry E. Poinexter 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.

**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.

**Salem Times-Register Prizes for Excellence** Two prizes, given by Jeanne and Ray Robinson, Salem Times-Register, are awarded annually to the man and the woman of the senior class who have achieved the highest degree of excellence both in their studies and in their service in behalf of the College. Recipients are chosen by the faculty.

**Salem Times-Register Prize-Roanoke Valley** An annual award for a junior or senior from the Roanoke Valley who has demonstrated leadership both on academics and student life. The recipient is to be selected by the faculty. The award is provided by the generosity of Jeanne and Ray Robinson.

**Will Selzer Political Science Prize** 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.

**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 economics and business administration department. The recipient is selected by the economics and business administration faculty from among those graduating seniors who have demonstrated outstanding leadership qualities both within the department and in the campus community.

**Solomon Community Service Awards** These awards are made annually to sophomores or juniors who have shown a commitment to community service the previous year and show promise for future community service.

**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.

**Wall Street Journal Award** Presented annually to a student in economics or business administration. The recipient receives a one-year subscription to the *Wall Street Journal* and the Wall Street Journal Medal, and will be honored by having his/her name inscribed on the Wall Street Journal Plaque.

**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.
Jeffrey Childs Willis Memorial Award  This award in memory of Jeffrey Childs Willis is presented annually to the most outstanding soccer player.

Charles C. Wise Poetry Award  A prize in money, made possible by an anonymous donor, is awarded for an original poem judged outstanding by the members of the English department.

Matthew M. Wise Scholarship Prize  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.

Majors, Minors, and Concentrations

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

BACHELOR OF ARTS (B.A.)


BACHELOR OF SCIENCE (B.S.)

Biology, Biochemistry, Chemistry, Computer Information Systems, Computer Science, Environmental Science, Health and Human Performance, Mathematics, Medical Technology, Physics, Psychology, and Athletic Training.

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 courses before their junior year they may not be able to complete major requirements within the traditional four-year period. Those interested in physics, art, computer information systems, 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 department of Education, Health and Human Performance 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 28 minors. They are:

- American Literature
- American Politics
- Art History
- Biology
- British Literature
- Chemistry
- Computer Science
- Dramaturgy
- Elementary Education PK-6
- Environmental Policy
- Environmental Science
- European History
- Foreign Politics
- French
- German
- Mathematics
- Music
- Philosophy
- Physics
- Religion
- Secondary Education
- Sociology
- Spanish
- Studio Art
- Theatre Performance
- Theatrical Design
- Theology
- U.S. History

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 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 15 concentrations. They are:

- Accounting
- Africa and the African Diaspora
- Communications
- Creative Writing
- East Asian Studies
- Finance
- Global Business
- Health Care Administration
- Health Care Delivery
- Human Development
- Human Resource Management
- Information Analysis
- Marketing
- Parish Youth Leadership
- Social Work

Each concentration consists of a prescribed pattern of coursework 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 a 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 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 concentration.

Requirements for Baccalaureate Degree Programs

GRADUATION REQUIREMENTS

NOTE: The information that follows applies to students entering beginning Fall 1999, under the new Centers of Distinction Curriculum. Students previously enrolled and transfers entering prior to Fall 2000, should consult the 1998-99 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), two one-quarter unit physical education activities (or the equivalent) and a one-half unit co-curricular requirement for a total of 33 3/4 units or the equivalent. 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 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 a major and must earn a cumulative grade point average of at least 2.0 in all courses in that major. In any major, prerequisite courses which are not themselves required for the major are not included in the major cumulative grade point average.

Students must satisfactorily complete General Education requirements and major requirements. Since these may be completed without reaching the total of 33 3/4 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.

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 senior 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 medical technology 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 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 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 chapter). 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.

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 (B.A., B.S., 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 requirements as part of their first degree will not be required to complete the Centers of Distinction requirements. A minimum of eight units must be earned at Roanoke beyond those earned for the first degree. Units in excess of 33 3/4 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 General Education 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 General Education 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 3/4 (or the equivalent). A minimum of 17 of these units (excluding the physical education and co-curricular activities) must be earned at Roanoke after completion of the original degree. Transferable courses taken in the first degree program may be used to meet General Education requirements. No more than one-third 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 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 completed 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, 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 3/4 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, have the Office of the Registrar provide a complete transcript of credits, provided all College bills have been paid. A payment of $2 is required for each requested transcript. Official transcripts carrying the seal of the College are sent to other institutions, to a prospective employer, or in a sealed envelope to the student. Unofficial transcripts may be openly issued to the student. In most cases, transcripts will be mailed 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 $15.00.
ACADEMIC PROGRAMS AND OPPORTUNITIES

The Curriculum Goals

Believing that a college defines itself through its curriculum, the Roanoke College faculty endorses the curricular goals listed below. The student who successfully completes the curricular requirements at Roanoke College should possess:

1. A sound, broad intellectual foundation, including the ability to think logically, analytically, and creatively, and to make judgments and evaluations as a result of that process; flexibility, the ability to assume new tasks and to adapt to changing realities; the ability to function effectively, both independently and in groups;

2. An understanding of our world and the ability to communicate that understanding, including effective mathematical skills and communication skills, and an awareness of the potential capabilities of computer technology; knowledge of scientific and social scientific thought, methodology, and contributions; sound historical perspective, an appreciation for diverse cultures, and an aesthetic awareness and appreciation;

3. An integrated, mature perspective, including an understanding of the interrelationships among various disciplines; a set of moral and ethical values and a commitment to lifelong learning; awareness of the importance of mental and physical well-being;

4. A comprehensive background in a specific discipline, including the ability to recount and explain the basic facts and postulates of the discipline and to use them in the solution of problems; proficiency in the use of the techniques and the tools of the discipline; the ability to use the resources of the discipline to seek out and assimilate knowledge not a part of the classroom experience.

To achieve these four goals, the student at Roanoke College takes courses in the General Education program, completes a major, chooses elective courses, and participates in co-curricular activities.

Our curriculum strikes an appropriate balance between knowledge and skills. We think that it will help our students to live the fullest possible life, to accept responsibility as workers and citizens, to form valid judgments, and to make ethical choices with integrity.

Of course, these are ideals. No college can guarantee that all these things will happen to every student. The Roanoke faculty believes nonetheless that this is a curriculum which offers every student a comprehensive program of study that will benefit his or her life.

The Centers of Distinction Curriculum

Of the 33 ¾ units required for a degree at Roanoke College, 14 ¼ units (which includes two one-quarter unit physical education activities and one-quarter unit of co-curricular learning) are needed to fulfill the Centers of Distinction requirements.

FRESHMAN YEAR: THE WRITING COURSES

Freshmen begin the Centers of Distinction program at Roanoke College with two one-unit semester-long writing courses. Emphasizing writing as a process and using the workshop method, these courses teach students to develop and refine their rhetoric and writing styles, to improve their critical thinking skills, to practice the construction of sound and persuasive arguments, and to navigate the procedures and methodologies of research. Students are encouraged to use their writing skills purposefully, to express themselves meaningfully, and to explore ideas which interest them.

THE HUMANITIES REQUIREMENT

In the sophomore year, students take a two-semester sequence of one-unit courses designed to foster a better understanding of their own culture and the cultures of others. Students are introduced to significant achievements and developments in Western and some non-Western cultures from an interdisciplinary perspective, including history, literature, and the arts.

VALUES AND THE RESPONSIBLE LIFE

Also in the junior year, students explore some of the major moral and ethical issues of our day. The one-unit course is designed as an opportunity for students to reflect on their own values and beliefs while investigating the choices and philosophical systems of other peoples, both contemporary and past. It is not intended to indoctrinate or merely clarify whatever values the student has presently; rather, it provides an encounter wherein students are strongly encouraged to consider in a serious way values expressed in various traditions of religious, moral and intellectual thought.

THE SENIOR SYMPOSIUM

The growth and learning achieved in the first three years of college is the prerequisite for admission to Senior Symposium. The Senior Symposia are highly reflective and conceptual explorations conducted by faculty and students together into problems of contemporary and enduring importance. Specific topics are proposed by professors and frequently change, providing fresh opportunities for students and professors to collaborate, as liberally educated men and women, in the discussion of fascinating interdisciplinary questions.

In addition to the six one-unit core courses, students take additional courses in foreign languages, mathematical skills,
FOREIGN LANGUAGE
Students are required to complete up to one year of study (two units) of the same foreign language at Roanoke College. Students may be exempted from the requirement by demonstrating competency in a foreign language (see “Competency Standards” described elsewhere in this Catalog).

MATHEMATICAL AND SCIENTIFIC REASONING
Students complete three one-unit courses designed to develop mathematical skills and to introduce the scientific method as applied to modern laboratory sciences.

At least one unit must be from among mathematics or statistics. These courses emphasize problem-solving skills and applications of mathematics and statistics in modern society. Students in some majors will take courses specifically designed to address the needs of their majors. The courses MATH 101 and STAT 101 explore ideas appropriate for majors without special requirements. Substitutions may be made for these courses by taking any other one-unit MATH course or STAT course.

At least one unit must be an introductory laboratory course (biology, chemistry or physics). Students obtain a knowledge of the modern theories of the science, the ability to use the language of the science, and an appreciation for experimental techniques.

The third unit may be from computer science, mathematics, statistics, or any introductory laboratory course (biology, chemistry, physics). However, at most one one-unit STAT course will count toward the requirement, and students who take two laboratory courses to fulfill the requirement must take them from different disciplines.

SOCIAL SCIENTIFIC REASONING
Students complete two one-unit introductory courses in the social sciences chosen from two of the following disciplines: anthropology, economics, geography, political science, psychology, and sociology.

INTENSIVE LEARNING
All students are required to complete one unit of Intensive Learning at Roanoke College. This experience is an in-depth study of a well-defined topic or issue that occurs during a period of time when a student is enrolled in one and only one course.

CO-CURRICULAR LEARNING
Roanoke College recognizes that important learning takes place both inside and outside the classroom. To reinforce the idea of co-curricular learning, students in their first year at the College participate in community service and become involved in campus activities. Working with their academic advisors, students identify learning goals in the areas of (a) intellectual or aesthetic experiences, (b) leadership and citizenship, or (c) personal growth (physical, emotional and spiritual) and plan how to meet those goals. Students reflect on co-curricular learning throughout the semester and write a paper on their experiences at the end of each semester.

The co-curricular requirement is mandatory for one year, graded pass/fail, and earns one-quarter unit of credit that is outside the stipulated 33 academic units required for graduation. Students can complete additional quarter units of co-curricular learning. These would be graded pass/fail and would be listed on the transcript but would not count toward the number of academic units required for graduation.

PHYSICAL EDUCATION
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 course (one-quarter unit) 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. 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, Health and Human Performance. 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. Like all Roanoke College students, 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. However, Honors students must complete the Honors curriculum (described below) in lieu of the Centers of Distinction 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 (Satisfies the College co-curricular requirement) 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 laboratory 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 laboratory 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 may count toward the science requirement; any one-unit introductory course in anthropology, economics, geography, political science, psychology, or sociology may count toward the social science requirement.

OPTION I COURSE REQUIREMENTS

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

OPTION II COURSE REQUIREMENTS

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

Honors students must also demonstrate proficiency in a foreign language through the intermediate level. In cases where a student presents a language at the introductory level but one which Roanoke College does not offer (Latin, for example), 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. 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

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.

Semester in Washington, DC

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 in other challenging positions designed to meet the student’s 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 through Dr. C. W. Hill (Department of Public Affairs, 540-375-2423) or Dr. Nancy D. Joynner, 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 (ISEP) 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 (CREPUQ) 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. At the University of East Anglia in Norwich, England, history and English majors earn credit while studying with British students. A new exchange program offers Roanoke students the chance to study a wide variety of academic majors at the University of Ulster in picturesque Northern Ireland, with five campuses across the province. In addition, Roanoke students may take courses in English at Oslo University College in Norway through a new exchange agreement. 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 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 is now affiliated with Roanoke College and offers an American liberal arts setting in a lovely campus set in the heart of central London. For non-exchange programs such as Regent’s 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. Students may spend five weeks at St. Anne’s College in Oxford University studying history and literature. The Intensive Learning Program offers 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, Lima and Nairobi.

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. Frequently, 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. Applicants must demonstrate appropriate academic preparation and maintain full-time student status.

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, veterinary school or to other health professions should plan their courses of study early. The Health Professions Advisory Committee (HPAC), a group of science faculty members, serves to counsel students as to required courses and steps to take in the admission process.

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

PRE-LAW PROGRAM

Professor Todd Peppers

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 General Education 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

The most important requirement for students heading for seminary or graduate study in religion is a broad education. The General Education 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 – bible, church history, theology, ethics, and world religions. 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 Chaplain.

Dual Degree (3-2) 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, University of Tennessee-Knoxville, and Washington University in St. Louis. 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 3-2 dual degree programs, students will complete all general education 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, 221, and 331
CHEM 111 and 112

**MATH MAJOR:** PHYS 201 and 202
MATH 121, 122, 131, 201, 221, 222, and 331
STAT 202 and three additional courses chosen from (MATH 306, 361, 402, 431, 432, and 482)
CHEM 111 and 112

After completion of coursework at Roanoke College, the student transfers to one of the colleges of engineering described on pages 41–42. Admission requirements vary. In two additional years, students can generally 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 3/4 total units needed for graduation.

**PROGRAM WITH VIRGINIA TECH**
The College of Engineering at Virginia Tech and Roanoke College have joined to provide a program leading to 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: EF 1015, EF 1016 (Introduction to Engineering I and II; professionalism, problem presentation and solution, engineering calculations, computer applications, algorithmic development, ethics, 2-D sketching, and engineering design principles), and ESM 2104 (Statistics). 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, PHYS 453, 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.

PROGRAM WITH WASHINGTON UNIVERSITY
Under this 3–2 program, students who complete the prescribed three-year program at Roanoke College are recommended to Washington University for admission. The final admission decision rests with Washington University. To be recommended to Washington University, the student must have completed at least 27 units and have a 3.0 or higher grade point average both overall and in science and mathematics courses taken at Roanoke College. Upon completion of the five-year program the student is awarded a degree from Roanoke College in mathematics or physics and an engineering degree from Washington University.

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 Studies; Medical Technology
Department of Business Administration and Economics Business Administration; Computer Information Systems; Economics; Accounting; Marketing; Finance; Human Resource Management; Health Care Administration; Global Business
Department of Chemistry Chemistry; Environmental Science; Biochemistry
Department of Education, Health and Human Performance Health and Human Performance; Athletic Training; Teacher Certification
Department of English English; Communications; Creative Writing
Department of Fine Arts Art; Music; Theatre Arts
Department of Foreign Language French; German; Italian; Japanese; Linguistics; Russian; Spanish
Department of History Geography; History
Department of Mathematics, Statistics, Computer Science, and Physics Computer Science; Mathematics; Physics; Statistics
Department of Public Affairs Criminal Justice; International Relations; Political Science
Department of Religion and Philosophy Religion; Philosophy; Theology
Department of Psychology Psychology
Department of Sociology Information Analysis; Social Work; Sociology; Health Care Delivery

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.

ART

Professor Hardwig; Associate Professors Brust, Heil, Long; Part-Time Lecturers Capps, Eanes, Moon, Rutherford, Shively

(The curriculum for the Art Major is currently under revision. Please consult the Chair of Fine Arts for further information.)

The Art Program consists of 13 units including a five-unit core and eight upper-level courses as follows:

**CORE COURSES** (five units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 110</td>
<td>Two-Dimensional Design</td>
</tr>
<tr>
<td>ART 120</td>
<td>Basic Drawing</td>
</tr>
<tr>
<td>ART 130</td>
<td>Three-Dimensional Design</td>
</tr>
</tbody>
</table>
Art majors must complete eight units of upper-level courses:

1. At least two units (200 level or above) must be in one of the following areas:
   - Art History
   - Painting
   - Ceramics
   - Photography
   - Drawing
   - Printmaking
   - Graphic Art
   - Sculpture

2. At least four units must be at or above the 300 level, and must include Senior Seminars (Art 498–499). Choose upper-level courses carefully, in consultation with your art faculty advisor and the Art Area Handbook. The Art Area Handbook is online at www.roanoke.edu/finearts/main.

3. The completion of the eight units of upper level courses must be at or above the 200 level. These courses should be carefully chosen in consultation with the art faculty advisor.

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 the Art Area Handbook 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 History

The minor in Art History consists of six units. Two must be ART 240 and 245. Three further units of study are chosen from other art history courses within the Art Program. The sixth unit may be any studio or art history course.

105 Arts and Crafts in the Schools

Introduction to the theory and practice of art fundamentals. 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)
Lecture/Studio: 3 hrs/wk.

110 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. (1)
Lecture/Studio: 6 hrs/wk.

120 Basic Drawing

Fundamentals of drawing in black and white and color media including charcoal, graphite, ink, pastel, watercolor, and prismacolor. Emphasis on understanding drawing media in both technical and creative terms. (1)
Lecture/Studio: 6 hrs/wk.

130 Three-Dimensional Design

An introduction to the basic ways of seeing and responding to the third dimension. The course is organized as a series of tutorial 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: 6 hrs/wk.

199 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.

210 Graphic Design and Reproduction Techniques

Introduction to basic layout design with an emphasis on the stages of camera-ready art production. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 110 or 120.

240 History of Art: 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.
245 History of Art: 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.

260 Basic Painting
Fundamentals of painting in the media of oil and acrylic resin. Emphasis is on understanding each medium via instructor demonstrations and studio projects. (1)
Lecture/Studio: 4 hrs/wk.

270 Printmaking: Etching and Relief Methods
Fundamentals of printmaking in the areas of etching, block printing, collographs, and monoprinting. Emphasis on fine art production and techniques of each art form. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 110 or permission.

275 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: 4 hrs/wk.
Prerequisite: Art 110 or permission.

280 Introduction to Photography
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.)

290 Introduction to Ceramics
Hand-building and throwing on the wheel are emphasized; 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.

299 Special Topics
Selected studies in specialized studio or art history areas. May be repeated for credit. (½)
Lecture/Studio: Hours vary.
Prerequisite: Permission.

310 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: 4 hrs/wk.
Prerequisites: Art 110 or 120 and Art 210.

320 The Issues of Drawing
Continuation of basic drawing with more advanced problems reflecting creativity and composition principles in black and white and color media. Emphasis is on the artistic discipline, power, and beauty found in drawing. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 120.

325 Figure Drawing
Fundamentals of drawing the human form in terms of its structure, anatomy, design, and expressive concepts in black and white and color media. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 120.

330 Additive and Subtractive Sculpture
Introduction to the methods and techniques of three-dimensional representation. Clay and wood will be emphasized. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 130.

335 Constructive Sculpture
Methods and techniques of constructive sculpture will be emphasized, including welded metal and casting. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 130.

340 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: Art 245 or permission.

345 Baroque Art
An examination of the major monuments of European art produced between 1600 and 1750, including the works of Bernini, Caravaggio, Poussin, Rembrandt, and Rubens. 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: Art 245 or permission.
350 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: Art 245 or permission.

355 The Arts of the United States
A historical and conceptual survey investigating American architecture, painting, crafts, and sculptures. (1)
Lecture/Discussion: 3 hrs/wk.

360 Intermediate Painting
Continuation of Basic Painting, with more advanced problems reflecting creativity and composition principles. The theme of one's work is begun. Emphasis is on the artistic discipline, power, and beauty found in painting (1).
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 260.

380 Intermediate Photography
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 applications, and historical context of styles will be explored. (1)
Lecture/Studio: 4 hrs/wk.
(35mm camera required.) Prerequisite: Art 280.

390 Intermediate Ceramics
Studio practice in forming, firing, and glazing ceramic ware; individual instruction will be emphasized. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 290.

399 Special Topics in Art
Selected studies in specialized studio or art history areas. May be repeated for credit. (1)
Lecture/Studio: Hours vary.
Prerequisite: Art 240 or 245 or permission of the instructor.

410, 415, 420 Independent Study and Research
A program of advanced intensive study and experience in art under the guidance of the art 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 with approval of the faculty of the art area on the recommendation of the directing professor. Students are particularly cautioned to consult the departmental “Guidelines for Independent Studies/Internships” and the Art Area Handbook prior to initiating their planning. (1/2, 1, 1/2)
Lecture/Studio: Hours vary.
Prerequisite: Completion of all coursework in the area of interest, or permission.

430 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. 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 of the art area on the recommendation of the directing professor. Students are particularly cautioned to consult the departmental “Guidelines for Independent Studies/Internships,” and the Art Area Handbook prior to initiating their planning. (1)
Lecture/Studio: Hours vary.
Prerequisite: Completion of all coursework in the area of interest, or permission.

460 Advanced Painting
Continuation of Intermediate Painting by the theme of one's work being taken to higher professional standards. A significant amount of mature work must be produced. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 360.

480 Advanced Photography
Advanced study and continuation of intermediate work as well as specific directions with individual projects proposed by students. A significant amount of mature work must be produced. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 380.

490 Advanced Ceramics
Advanced study of materials and techniques in ceramics. Individual instruction will be emphasized; a significant amount of mature work must be produced. (1)
Lecture/Studio: 4 hrs/wk.
Prerequisite: Art 390.

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)
498 Senior Seminar I
Contemporary art issues will be examined through study of critical reviews, lectures by guest artists and critics, and field trips to contemporary museums and galleries. In the second half of the course, students will be expected to lay the foundation for their studio or art history project in consultation with the faculty member in the area they select. (1)
Lecture/Discussion/Studio: 3 hrs/wk.
Prerequisite: Art majors only.

499 Senior Seminar II
Continuation of Art 498 with further discussions of current and pertinent topics in studio art and art history. Each student will complete individual work which culminates in a senior exhibition or thesis. (1)
Lecture/Discussion/Studio: 3 hrs/wk.
Prerequisite: Art 498.

BIOCHEMISTRY

Professor Jack Steehler, Coordinator

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
Students earn a Bachelor of Science (B.S.) degree by completing 12 units. The courses are:

CHEM 111 & 112 General Chemistry
BIOL 120 & 215 Introductory Biology: “Continuity of Life” and “Components of Life”
CHEM 221 & 222 Organic Chemistry I and II
CHEM 341 & 342 Biochemistry I and II
BIOL 390 & 400 Advanced Biology: “Advanced Cell Biology” and “Molecular Biology”
CHEM 331 Physical Chemistry
CHEM 280 & 480 Sophomore Seminar & Senior Seminar (each ½ unit)

Math 121 and 122 and two units of general physics are prerequisites for CHEM 331, which is required for all biochemistry majors.

Additional coursework and undergraduate research experiences are encouraged, in either Biology or Chemistry. Faculty with current biochemistry research interests include Dr. Gardner, Dr. Jorgensen, Dr. Oetgen, Dr. Pysh, and Dr. J. Steehler.

BIOLOGY

Professors Jenkins, Jorgensen; Associate Professors Adkisson, Gardner; Assistant Professors Booth, Cawley, Pysh, Ramesh; Visiting Assistant Professors Crozier, Currie; Teaching Associate Dillon

All students seeking a degree in Biology are required to complete eight units of Biology including Biology 115, 120, 215, 220 (one-half unit), Biology 455 (one-half unit) and one unit from each of four core areas: Molecular or Cell, Organismal (A), Organismal (B) and Ecological. Students seeking the B.S. degree must complete four units of Chemistry (111/112; 221/222), two units of Physics (103/104 or 201/202), and two units of Mathematics/Statistics (STAT 101 and MATH 112 or higher; the Math 121/122 sequence is recommended). Students seeking the B.A. in Biology must complete one unit of Chemistry (101 or 111), one unit of Physics including a laboratory (101 or other), and two units of Mathematics/Statistics (STAT 101 and MATH 112 or higher).

Biology Core Areas
A student’s program of study in Biology consists of five required courses together with a minimum of four other one-unit courses for both B.A. and B.S. candidates. These courses should be chosen in consultation with the Biology faculty to fit a student’s particular interest and to help her/him pursue specific career goals. In order to ensure breadth of coverage, students must include as part of their course of study a minimum number of courses from the core areas listed below. (NOTE: An internship may NOT be used for major credit.)

Courses required of all Biology majors
BIOL 115 Diversity of Life
BIOL 120 Continuity of Life
BIOL 215 Components of Life
BIOL 220 Scientific Inquiry: How Biologists Work (½ unit)
BIOL 455 Seminar (½ unit)
Biology core areas:

A. Molecular or Cell Courses

(one unit required of all majors)

- BIOL 390 Advanced Cell Biology
- BIOL 420 Developmental Biology
- BIOL 430 Immunology

B. Organismal Courses

(one unit from Group A and one unit from Group B required of all majors)

A. BIOL 240 Algae & Fung
- BIOL 265 Plant Kingdom
- BIOL 365 Plant Anatomy & Physiology

B. BIOL 270 Invertebrate Biology
- BIOL 275 Vertebrate Biology
- BIOL 320 Animal Behavior
- BIOL 375 Comparative Animal Physiology

C. Ecological Courses

(one unit required of all majors)

- BIOL 200 Environmental Science
- BIOL 300 Aquatic Ecology
- BIOL 360 Terrestrial Ecology

These course pairs will usually be offered on an alternating year basis: Plant Kingdom (265)/Plant Anatomy and Physiology (365); Vertebrate Biology (275)/Aquatic Ecology (300); Invertebrate Biology (270)/Comparative Animal Physiology (375); and Advanced Cell Biology (390)/Immunology (430).

MINOR IN BIOLOGY

A minor in Biology requires six units of Biology coursework. Student research (Biology 350/355) and Internship (Biology 450) may count for no more than two of the required six units.

101 Life on Planet Earth

An introduction to principles of biology as related to life in modern society. Designed to provide students with the broad background in biological science necessary to understand current issues ranging from environmental biology to human health and physiology. (Open to non-majors only.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

115 Diversity of Life

The first course in a four-semester introductory sequence for biology majors. This course provides a comprehensive overview of ecology and biotic diversity, focusing on the organisms present on our planet and the interactions of these organisms and their environment. (Students intending to major in biology should enroll in this course the Fall semester of their freshman year.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
(Credit may not be obtained for both Biology 115 and old course Biology 160.)

120 Continuity of Life

The second course in a four-semester introductory sequence for biology majors. This course provides a comprehensive overview of the fields of evolution and genetics, focusing on the role of the genetic material in inheritance and the processes by which changes in this genetic material can lead to the amazing diversity of life present today. (Students intending to major in biology should enroll in this course the Spring semester of their freshman year. Prospective biology majors should enroll in BIOL 115 before enrolling in BIOL 120.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

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 115, and Chemistry 101 or 111.
(Cross-listed as ENVI 200.)

215 Components of Life

The third course in a four-semester introductory sequence for biology majors. This course provides a comprehensive overview of the fields of molecular and cellular biology and biochemistry, focusing on cellular and subcellular processes and the structure and function of organelles. (Students intending to major in biology should enroll in this course the Fall semester of their sophomore year.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisites: Biology 120.

220 Scientific Inquiry: How Biologists Work

The fourth course in a four-semester introductory sequence for biology majors. Using a combination of experimental, computer, and writing exercises, students learn to organize research, analyze data, and write creatively and critically in the tradition of the biological sciences. (Students intending to major in biology should enroll in this course the Spring semester of their sophomore year.) (1/2)
Lecture: 1 1/2 hrs/wk.
Prerequisite: Biology 215.
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.
Prerequisite: Biology 101 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 115 and 120.

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)
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 115 and 120.
(Offered in alternate years.)

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 115 and 120.
(Offered in alternate years.)

275 Vertebrate Biology
Identification, morphology, phylogeny, zoogeography, ecological physiology, and behavior of vertebrates. (1)
Lecture 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisite: Biology 115 and 120.
(Offered in alternate years.)

290 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.
Prerequisite: Biology 215.

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: Biology 215.
(Offered in alternate years.)

310 Modeling Environmental Interactions
An introduction to computer simulation modeling of biological, chemical, and physical processes with application to problems in environmental science. No experience with computer programming is necessary. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisites: Four courses in natural science, MATH 112 or 121 and one additional course in mathematics or statistics.
(Cross-listed as ENVI 310.)

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 215.

345 Special Topics in Biology
Study of a special topic in biology not regularly offered. (1)
Lecture: 3 hrs/wk.
Prerequisite: Department permission.

350 Student Research
Problems chosen and carried out under the direction of a member of the departmental staff. (1)
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. (No more than one unit may be counted toward the major.) (½)
*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: Biology 215.*

**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 215.*
*(Offered in alternate years.)*

**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 215 and 290.*
*(Offered in alternate years.)*

**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 215.*

**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 215 and Chemistry 221.*
*(Offered in alternate years.)*

**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 215 and 390 or permission of instructor.*

**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 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 390.*
*(Offered alternate years.)*

**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: Biology 220 or 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. (½)
*Lecture: 1½ hrs/wk.*
*Prerequisite: 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 and completion of Biology 220. Must be followed by Biology 470, Senior Thesis.) (1)
*Prerequisite: Biology 220.*

**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: Open to BS majors with permission of the Department and upon completion of Biology 460.*
BUSINESS ADMINISTRATION

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. (½, 1, ½)

BUSINESS ADMINISTRATION

Professor L. Lynch, Nazemi; Associate Professors Baker, Cissel, Fleming, Gilster, Loury, McClelland, McKee, Stauffer; Assistant Professor Capriano; Visiting Assistant Professor Gibbs; Teaching Associate Wolfe; Part-time Senior Lecturer Whipple; Part-time Lecturers Cecere, Harris, Hurkin, W. Kearns, Kinzer, Maness; Visiting Instructor Clifton

The degree of Bachelor of Business Administration requires successful completion of 13 units in Business Administration and Economics: Business Administration 125, 127, 225, 233, 248, 254, 258, 342, 348, and 499; Economics 121 and 122; and one elective from: Business Administration 245, 333, 354, 358, and 496 or 495 and 497; Economics 232. Admission to the B.B.A. program requires the approval of the department chairperson. A student must have at least a 2.0 grade point average in three out of the following five courses: Business Administration 125, 127; Economics 121 or 122; Mathematics 111; and Statistics 101. Students may be admitted to the program before completing the above courses if their performance is promising.

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 125, 127, 225, 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 as prerequisites in addition to the Business Administration 125 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 245, 315, 325, 335, 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 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, Business Administration 142, 245, 315, 341, 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 2.0: Business Administration 125, 211, 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 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 254 and 354, plus four courses selected from Business Administration 244 and 416, Communications 217, 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 Health Care Administration
See Health Care Administration (p. 84) for description.

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, plus two courses selected from Business Administration 333, 353, 363.
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 are prerequisites for Business Administration 433.

125 Accounting Principles I
Development of a broad understanding of the ways and means by which the collection and handling of financial data serve decision makers. PC applications utilized. (1) Lecture: 3 hrs/wk.
127 Business Law
The principles of the law of contracts, partnerships, corporations, sales, negotiable instruments, property, employment. (1)
Lecture: 3 hrs/wk.

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 Small Business Management
A survey of the techniques for starting and operating a small business enterprise. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 125.

211 Introduction to Global Management
An introduction to the legal, economic, financial, and human aspects of conducting business internationally. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 125.

225 Accounting Principles II
Continuation of broad understanding of how accounting and financial data assist decision makers. Topics include corporations, special reports, use of accounting information, and managerial accounting, including cost accounting, planning, and control. PC applications. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 125.

233 Marketing Management
Principles, practices, and basic theoretical concepts in the field of marketing. Utilization of the case method in instruction. (1)
Prerequisite: Economics 120 or 121 or Business Administration 125.
Lecture: 3 hrs/wk.

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 Industrial Relations and Collective Bargaining
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.
(This course is cross-listed as Economics 244.)

245 Income Taxation
Examination of the present federal tax law and development of the accounting principles and procedures involved in the preparation of tax returns. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 125 or permission.

248 Quantitative Methods
The use of quantitative techniques in decision making for applied work. Substantial PC application. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 111, Statistics 101 and Business Administration 125.

254 Organizational Behavior and Management
An examination of theoretical principles and applications as related to managing individuals and groups in the work setting. (1)
Lecture: 3 hrs/wk.

258 Information Systems I-Concepts and Applications
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 125 or permission.

260 Topics in Business Administration
Selected topics involving problems and controversies of a social and political nature. (1)
Lecture: 3 hrs/wk.

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.

325 Intermediate Accounting II
Continuation of Business Administration 315. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 315 or permission.

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.
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.
Prerequisites: 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.

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.

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 and Business Administration 125.

353 Sales Management
This course provides a comprehensive overview of principles and problems faced by sales managers. This includes the formulation and implementation of a sales plan as well as the evaluation and control of the sales force. (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.

358 Information Systems II-Development and Management
This course provides a comprehensive coverage of information technology in business organizations. It covers the management and applications of information systems from a managerial end-user perspective. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 258 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.

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, ½)

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.) (½, 1, ½)

415 Auditing
The principles employed in the conduct of a financial audit. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 225.

416 Internship
Work experience in private or public sector, utilizing analytical tools, and including a student project. (1)
Prerequisites: Business Administration 258 and permission of the Department.

425 Advanced Accounting
Basic concepts and procedures applicable to advanced accounting problems. Includes accounting for fiduciaries, advanced consolidated statements, foreign subsidiaries. (1)
Lecture: 3 hrs/wk.
Prerequisite: Business Administration 225.

433 Marketing Research
Designed to provide students with the skills to define a research situation, construct the research model, 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.

438 Systems Analysis and Design
This course provides students with the skills to define a research situation, construct the research model, generate and test the response or solution, and integrate the steps into a coherent project. (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.

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. (½, 1, ½)

499 Business Policy
A case method course enabling students to consolidate knowledge, skills, attitudes, and values relevant to the responsibilities of corporate general managers. The student is expected to develop criteria for distinguishing simple from complex general management requirements. (1)
Lecture: 3 hrs/wk.
Prerequisites: Business Administration 233, 248, 254, 342 and 348.

CHEMISTRY
Professors Huddle, Oetgen, G. Steehler, J. Steehler; Associate Professors Hollis, V. Miller; Teaching Associate P. Turpin; Adjunct Research Professor Fisher

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 nine units of chemistry, including Chem 111, 112, 221, 222, 331, 362, 350, 280 (½), 480 (½) and one elective unit. An elective is any course which may be used as a part of the Chemistry major. Math 121 and 122 and two units of general physics are prerequisites for Chem 331, which is required for all chemistry majors.

The B.S. in Chemistry requires 12 units in chemistry, including Chem 111, 112, 221, 222, 331, 362, 350, 341, 280 (½), 480 (½), 460, one unit of research, and one unit of another advanced course (342, 420, or 430). Math 121 and 122 and two units of general physics are prerequisites for Chem 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 units in chemistry and biology, including Chem 111, 112, 221, 222, 331, 341, 342, 350, 280 (½), 480 (½), Biol 120, 215, 390 and 400. Math 121 and 122 and two units of general physics are prerequisites for Chem 331, which is required for all chemistry and biochemistry majors. At least one unit of biochemical research is recommended, either with a Chemistry or a Biology research mentor.

Successful completion of the Honors section of General Chemistry (Chem 112H) automatically awards competency in Chem 111.

All chemistry and biochemistry majors are advised to take advanced level courses in mathematics and the other sciences, and to develop a reading knowledge of a modern foreign language. Courses in statistics, computer science, and economics are recommended.

Minor in Chemistry
The minor in chemistry requires six units in chemistry, including Chem 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
The student gains an insight into modern chemical theory, fundamental concepts, and the methodology of a physical science. (May not be taken for major credit.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

111, 112 General Chemistry I and II
The introductory course in chemistry. (Required for all chemistry, biochemistry, pre-medical, pre-dental, pharmacy, medical technology 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.

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: Chem 112.

250 Environmental Analytical Chemistry
Analysis of environmental samples, with equal emphasis on analytical principles and the specifics of environmental samples. Includes both instrumental methods (HPLC, GC/MS, AA, UV-Visible) and wet chemical methods
(Titrations, gravimetry). Principles of data analysis and quality assurance. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/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. (½)
Lecture: 1 ½ hrs/wk.
Prerequisite: Chem 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: Chem 112, Math 122 and two units of general physics.

341 Biochemistry I
An introduction to the structures and reactions of the major components of living organisms. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisite: Chem 222.

342 Biochemistry II
Further study of the components and reactions in living cells with an emphasis on the integration of metabolic pathways. (1)
Lecture 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisite: Chem 341.

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: Chem 331.
(Offers in 2003-2004 and alternate years.)

370 Environmental Chemistry
A study of the sources, reactions, transport, and fate of chemicals in the 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 hrs/wk.
Prerequisite: Chem 112 and Envi 200.
(Offers in 2003-2004 and alternate years.)

405, 406, 407 Independent Study and Research
Directed studies performed in association with members of the departmental faculty. (½, 1, ½)
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 the 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: Chem 222 and 331.
(Offers in 2003-2004 and 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: Chem 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: Chem 222 and 331.
(Offers in 2002-2003 and 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. (½)
Lecture: 1 ½ hrs/wk.
Prerequisite: Chem 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. (½, 1, ½)
CO-CURRICULAR LEARNING AND SERVICE

Dr. Kristi Hoffman, Co-Curricular Learning and Service Director

These courses encourage individual development through involvement in campus and community events, as well as through service in the community.

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 an end-of-semester reflection paper. (1/8, 1/8)

Lecture: 1 hr/wk.

COMMUNICATIONS

Associate Professors Carter, Kuchar, A. Turpin; Teaching Associate D. Selby

Students may earn the concentration in communications by completing six units, selected from two required areas.

I. Required (three units)

COMM 101 Principles of Communication
COMM 102 Fundamentals of Mass Media
COMM 220 Public Speaking

II. Electives (three units)

COMM 111 Voice and Diction (cross-listed with TART 111)
COMM 210 Performance of Literature (cross-listed with TART 210)
COMM 217 Business Communication
COMM 219 Journalism
COMM 301 Special Topics
COMM 405, Independent Study 406, 407
COMM 411 Television Production (cross-listed with TART 411 or approved substitution)
COMM 416 Internship
POLI 204 Mass Media and U.S. Politics

101 Principles of Communication

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.

102 Fundamentals of Mass Media

A survey of professional media (newspapers, radio, television, advertising and public relations), with special emphasis on the development and history of mass media, as well as their influence on contemporary society. (1)

Lecture: 3 hrs/wk.

Prerequisite: General Studies 101.

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)

(cross-listed with Theatre Arts 210)

Prerequisite: Theatre Arts 111 or permission.

217 Business Communication

Study of communication forms and styles intrinsic to the workplace. Course covers oral, written, and electronic communication, and develops skill in preparing e-mail, memos, letters, reports, newsletters and presentation. (1)

Lecture: 3 hrs/wk.

Prerequisite: General Studies 102.

219 Journalism

An introduction to practical journalism. (1)

Lecture: 3 hrs/wk.

Prerequisite: General Studies 101.

220 Public Speaking

Study of voice, production, and management in various forms of public address. (1)

Lecture: 3 hrs/wk.

301 Special Topics

A concentrated study of a topic or issue related to the field of communications. (1)

Lecture: 3 hrs/wk.

Prerequisite: Communications 101 and 102 or permission.

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: Comm 101, 102 and one other Communications elective.

411 Television Production

The study and practice of television production, including experience in local stations. (1)

Lecture-Laboratory: 6 hrs/wk.

(Cross-listed with TART 411 or approved substitution.)

Prerequisite: Permission of the instructor or the Fine Arts Chairperson.
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: Communications 101 or 102 and permission.

COMMUNITY RESEARCH
Associate 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.

410 Community Research Practicum
Supervised participation in a large scale survey research project. Course includes interviewing, data analysis, and report writing. (1)
Prerequisite: Permission.

COMPUTER INFORMATION SYSTEMS
Professor L. Lynch; Professor Nazemi
The Bachelor of Science degree with a major in computer information systems requires the satisfactory completion of 13 units in the areas of business administration, computer science, and statistics to include Business Administration 125, 225, 248, 258, 358, 438, and 416 (internship or 300 or above Business or Computer Science course); Computer Science 120, 170, 220, 340, 420; and Statistics 202. Mathematics 121 and 122 are prerequisites for Statistics 202.

This program is administered by the Department of Business Administration and Economics.

Admission to the Bachelor of Science program in Computer Information Systems requires approval of the Department chairperson upon completion of Mathematics 121 and 122, Business Administration 125 and 225, and Computer Science 120 and 170 with at least a 2.0 grade point average. Students may be admitted to the program prior to completing the above courses if their performance is promising.

COMPUTER SCIENCE
Professor Ingram; Associate Professors Bliss, Shende
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 Business Administration 258.) (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. (Credit may not be received for CPSC 120 if credit has been received for CPSC 150, which was last offered Fall 2000.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisite: 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. (Credit may not be received for CPSC 170 if credit has been received for CPSC 250, which was last offered Spring 2001.) (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.
Prerequisite: 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.
(Offered in 2002-2003 and alternate years.)

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.
(Offered in 2003-2004 and alternate years.)

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 sub-systems, memory management, file systems. (1)
(Credit may not be received for CPSC 370 if credit has been received for CPSC 410, which was last offered Spring 2001.)
Lecture: 3 hrs/wk.
Prerequisite: Computer Science 220.
(Offered in 2002-2003 and alternate years.)

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.
(Offered in 2003-2004 and alternate years.)

402 Numerical Analysis
Numerical integration and numerical solution of differential equations, numerical methods in linear algebra, matrix inversion, estimation of characteristic roots, error propagation, and stability. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 201, 221, Computer Science 120.
(Offered in 2003-2004 and alternate years.)

420 Simulation
Techniques of digital computer simulation including modeling, data analysis, model validation, and simulation languages. (1)
Lecture: 3 hrs/wk.
Prerequisites: Statistics 202 and Computer Science 220.
(Offered in 2002-2003 and alternate years.)

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.
(Offered in 2003-2004 and alternate years.)

430 Senior Seminar
Advanced study in selected topics in a seminar format. (1)
Lecture: 3 hrs/wk.
Prerequisite: Computer Science 270.
(Offered in 2002-2003 and alternate years.)

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. (½, 1, ½)

CREATIVE WRITING

Professor Heller; Associate Professors Hanstedt, V. Stewart; Assistant Professors Ahmed, Cartwright

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 Independent Study
TART 401 Playwriting
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 requirements and is a prerequisite to Criminal Justice/Political Science 345.

A. Criminal Justice - four required units:
- CJUS/POLI 211 Criminal Justice
- CJUS/POLI/I.R. 245 Public Affairs Inquiry
- CJUS/POLI/I.R. 345 Public Affairs Data Analysis
- CJUS 401 Seminar in Criminal Justice

B. Political Science - two required units:
- POLI 102 American National Government
- POLI 301 Public Administration

C. Sociology - three required units:
- SOCI 101 Introduction to Sociology
- SOCI 238 Juvenile Delinquency
- SOCI 334 Criminology

D. Electives - three required units:
Two from Group A: Policy Studies
- CJUS/POLI 213 Criminal Law
- CJUS 261 Selected Topics in Criminal Justice
- CJUS/POLI 214 Judicial Process
- CJUS 325 Comparative Law Enforcement
- CJUS 326 Comparative Corrections
- CJUS 406 Independent Study
- CJUS 416 Internship (1-2 units)
- CJUS 495, 6, 7 Honors Project (½, 1, ½ units)

One from Group B: Related Studies
- CJUS 227 Law and Society
- CJUS 261 Selected Topics in Criminal Justice
- POLI 201 State and Local Government
- POLI 312 Civil Liberties
- PSYC 211 Adolescent Development
- PSYC 230 Abnormal Psychology
- SOCI 237 Deviant Behavior
- BUAD 125 Accounting Principles I
- CJUS 406 Independent Study
- CJUS 416 Internship

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 102 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 102 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 102.
(Cross-listed as Political Science 214).

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 102.

245 Public Affairs Inquiry
An examination of the research techniques used in the study of politics. Both qualitative and quantitative methods will be explored. (1)
Lecture: 3 hrs/wk.
Prerequisites: Political Science 102 and Criminal Justice 211 or permission of the instructor.
(Cross-listed as Political Science 245 and International Relations 245).

261 Selected Topics in Criminal Justice
An examination of selected topics in criminal justice based on student and faculty interest. (1)
Lecture: 3 hrs/wk.
325 Comparative Law Enforcement
This course is designed to provide 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 the United Kingdom, France, and Japan. (1)
Lecture: 3 hrs/wk.
Prerequisites: Sociology 101 and Political Science 102.

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)
Lecture: 3 hrs/wk.
Prerequisite: Criminal Justice 211 or Political Science 211.

345 Public Affairs Data Analysis
An examination of the basic skills involved in the analysis of data, including an introduction to the computer. (1)
Lecture: 3 hrs/wk.
Prerequisites: Political Science 245 and Statistics 101.
(Cross-listed with Political Science 345 and International Relations 345).

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: Departmental permission.

416 Internship
A supervised placement providing practical experience in an agency relating to criminal justice. (1)
Prerequisite: Departmental 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. ($1/2$, $1/2$)

ECONOMICS

Associate Professors Fleming, Lowry, Stauffer; Visiting Instructor Kheirandish

Students majoring in Economics are required to complete a minimum of ten units in Economics, including 121, 122, 232, 321, 322, and 461. They must also take Business Administration 258. Business Administration 125 and 225 are recommended for those students whose career plans might include an accounting component. Although students may take Economics 121 and 122 in either order, the recommended sequence is 121 followed by 122. Note that Statistics 101 and Mathematics 111 or 112 are prerequisites for Economics 321 and 322.

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.

120 Introduction to Economics
A survey designed to develop an understanding of the role of economic principles in domestic and world affairs. (Not open to anyone majoring in business administration or economics, or anyone having completed both Economics 121 and 122.) (1)
Lecture: 3 hrs/wk.

121 Principles, Micro
Analytical concepts and principles as they relate to the functioning of a mixed-market economy, emphasizing costs, markets, and prices. (1)
Lecture: 3 hrs/wk.

122 Principles, Macro
Analytical concepts and principles as they relate to the functioning of a mixed-market economy, dealing with aggregate concepts and problems, such as unemployment, inflation, growth, and international trade. (1)
Lecture: 3 hrs/wk.

227 Health Care Economics
A course to provide students with tools to evaluate current issues in health care, and to analyze the effects of public policies in the financing and delivery of health care. (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 Public Finance
The effects of taxation and government expenditure on economic allocation, distribution, stability, and growth are covered. Attention is given to the fiscal institutions and policies of state and local government. (1)
Lecture: 3 hrs/wk.
Prerequisites: Economics 121 and 122.

244 Industrial Relations and Collective Bargaining
Evolution of unions; organizations and role of labor and management in collective bargaining; labor legislation; and contract administration. (1)
Lecture: 3 hrs/wk.
Prerequisite: Economics 120 or 121.
(This course is also listed as Business Administration 244.)

247 Global Trade and Finance
The theory of trade; barriers and controls; balance of payments; international monetary systems. (1)
Lecture: 3 hrs/wk.
Prerequisites: Economics 121 and 122.

257 Competition, Monopoly, and Public Policy
This course considers business organization and operation with emphasis on public policy designed to promote competition and prevent monopoly. (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.

321 Intermediate Theory: Microeconomics
The determination of prices and the allocation of resources under different market structures; problems, questions of policy, and managerial decisions. (1)
Lecture: 3 hrs/wk.
Prerequisites: Economics 121; Statistics 101; and Mathematics 111 or 112.

322 Intermediate Theory: Macroeconomics
The measurement, analysis, and control of aggregate economic activity; problems and questions of policy. (1)
Lecture: 3 hrs/wk.
Prerequisites: Economics 232; Statistics 101; and Mathematics 111 or 112.

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, ½)

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.) (½, 1, ½)

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)

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.

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. (½, 1, ½)

EDUCATION

Associate Professors Murrill, Simmons;
Assistant Professors Reynolds, Whitt;
Visiting Instructor Gobble; Part-time Lecturers Bazak, Delzell, Earp

Roanoke College offers teacher licensure programs with endorsements in the following areas:

Elementary Education
Elementary Education (PK-6);
Art Education (PK-12)
Music Education Vocal/Choral (PK-12)
Theatre Arts (PK-12)  
Health and Physical Education (PK-12)  
English  
   English; English and Speech Add-on;  
   English and Journalism Add-on  
Foreign Languages  
   French; German; Spanish  
Mathematics  
   Mathematics; Algebra I; Computer Science  
Science  
   Biology; Chemistry; Physics;  
History and Social Science

Freshmen and transfer students entering Roanoke College major in a liberal arts discipline (any major except business administration) as required by the Virginia State Board of Education for elementary licensure. Secondary education licensure is acquired through a major in the appropriate subject.

The College has selective admission policies and practices for the Teacher Education Program, including the minors in education. **Admission into the education licensure program is defined as a student's initial entry into a field-based course experience (EDUC 338, EDUC 340, EDUC 402/404).** Students seeking teacher licensure may take all other education courses but may not complete placement paperwork for any field-based course until Praxis I is successfully achieved, required grade point average(s) achieved, and background screening completed. Prior to formal admission to the program, the student must successfully complete Praxis I of the National Teacher Examination (NTE). The student must meet minimum passing scores on these tests as set by the Virginia Board of Education. Admission to the internship (EDUC 338) and Diagnostic Reading (EDUC 340) requires a 2.5 overall average. Required at the time of application for student teaching is a 2.5 overall grade point average, a 2.5 average in the student's major and/or teaching endorsement area, and a 2.5 overall average in education and psychology courses applicable to licensure. GPA requirements of 2.5 for the Education 338 (Field-based Internship), Education 340 (Diagnostic Reading), and Education 402-404 (Student Teaching) refer to the grade point average earned at Roanoke College. ONLY the 2.5 overall minimum GPA earned at Roanoke College will be considered for Education 338 and Education 340. In exceptional circumstances, the minimum 2.5 GPA requirement for student teaching (overall, major, and education/psychology licensure courses) may include consideration of course credit earned at all other colleges/universities if it in no way compromises the intent of the minimum standard. A formal written appeal with justification for the consideration of this possibility must be presented to the chair of the department of Education, Health and Human Performance.

In accordance with state requirements, an applicant must possess the physical and mental health necessary for the tasks to be performed. In addition, the student should demonstrate good moral character. Violation of the Roanoke College academic integrity regulations or of judicial rules and regulations, 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 verifying that this 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.

Admission to student teaching requires two recommendations from full-time faculty members (one of these must be from the student's department) and possession of a grade point average of 2.5 overall as well as in the major and/or teaching endorsement area and in all education and psychology courses applicable to licensure. All non-degree-seeking students must meet the same standards. All non-degree-seeking students must have earned a minimum of four units of credit approved by the Education department at Roanoke College prior to placement in student teaching. Standards for admission to the Teacher Education Program must be maintained during the period of student teaching. All tests (Praxis I and Praxis II specialty tests) of the National Teacher Examination required by the Virginia Department of Education for licensure must be successfully completed and scores furnished to the Registrar's Office before the College recommendation for licensure can be given.

Students seeking added endorsements for teacher licensure will be required to extend their student teaching beyond the regular term. A minimum of 18 weeks of student teaching will be required if additional endorsements are sought. Specific endorsement areas and the required number of weeks of student teaching (noted parenthetically) are listed below:

**PK-6 and Secondary subject areas:**  
PK-6, (Eight), Secondary subject area (Eight)  
PK-12 Art, Music or Physical Education and PK-6:  
PK-6, (Six), Subject area PK-6 (Six), Subject area 6-12 (Six)

All other endorsement areas can be met through the regular term of student teaching.

Candidates for student teaching are required to make application in writing in the semester preceding the one in which student teaching is to be taken. March 1st and October 1st have been designated as the closing dates for such applications. Application must also be made in writing to enroll in EDUC 338, and EDUC 340. October 15th and March 15th are the closing dates for these applications. Appropriate forms for making application will be supplied upon request in the Education, Health and Human Performance department office. Students wishing to do a field placement (EDUC 338, EDUC 340, or EDUC 402/404) during the Fall semester...
must have met all GPA and Praxis I requirements by June 1st. Students wishing to do a field placement (EDUC 338, EDUC 340, or EDUC 402/404) during the Spring semester must have met all GPA and Praxis I requirements by December 15th.

Completion of the education licensure program is defined as a student’s passage of the appropriate Praxis II examination, successful completion of student teaching, and fulfillment of all course requirements as outlined on the Teacher Licensure Application form. No college recommendation for teacher licensure will be given until requirements are met.

During the term of student teaching, students may enroll in no more than one course in addition to student teaching. Students should take Praxis II in their specialty area the semester prior to student teaching.

Note: Personal transportation must be provided by the student for all field experiences related to class work and student teaching. Placements will be in Roanoke City, Roanoke County, Salem City, and certain nearby Botetourt County and Montgomery County schools. Specific school placements cannot be assured.

Title II Reporting-Academic Year 2000-2001
As required by Sections 207 and 208 of Title II Higher Education Act, all colleges and universities with teacher licensure programs must report the performance of students on Praxis tests.

During the 2000-2001 academic year, there were 25 program completers for the teacher licensure program at Roanoke College. All 25 program completers passed Praxis I in reading, writing, and mathematics for an aggregate pass rate of 100 percent. Praxis II subject area test pass rates are not reported due to less than ten students taking each of the subject area tests during the 2000-2001 academic year. There were 51 students formally enrolled in the teacher licensure program. Twenty six (26) students were enrolled in student teaching clinicals and yielded a student/faculty supervision ratio of 4.3 to 1. (Supervising four or five student teachers counts the same as teaching one class.) Students were in supervised clinical student teaching experiences for 13 weeks averaging 35 hours per week for a minimum of 400 required hours.

Education-related course requirements are:

PK-6 (Elementary Education)
Education 210, 221, 333, 334, 335, 336, 338, 340, 342, 404 (two units); Psychology 215; Geography 101 or Geography 110; History 175.

6-12 (Secondary) and PK-12
(Art, Music, and Physical Education)

Education 210, 221, (except physical education), 324 (except music, physical education, foreign languages), 338, 341, 342, 402-404 (for Art, Music, and Physical Education) or 402 A&B (for all other secondary endorsements); Psychology 215. Art, music, physical education, and foreign language majors take appropriate methods courses within their departments. Art majors also must take Education 324 and also Art 240 at Hollins University.

(Psychology 215 will be required of all students seeking teacher licensure. Students may substitute Psychology 210/211 for Psychology 215 or take Psychology 210/215 or Psychology 211/215.) For those students seeking secondary licensure, consultation with education faculty and a major advisor is necessary since requirements for licensure often differ from major requirements. Many secondary subjects require courses other than major courses for teacher licensure.

Guidance in the first year in the selection of both General Education and elective courses is strongly advised. A second advisor from the Education faculty is required for all students seeking teacher licensure.

Education 210 is a prerequisite for all courses in the department. For teacher licensure, Honors courses will count in the same manner for General Education courses or major courses as in the Honors program. For specific information consult with a major advisor.

Minor in Elementary Education PK-6
A minor in elementary education PK-6 requires seven units, including Education 210, 221, 333, 334 335, 336, 338 and 342. NOTE: Completion of a minor in Elementary Education does not meet all requirements for elementary teacher licensure. A 2.5 GPA and successful Praxis I test scores, as previously outlined, are required for granting the minor.

Minor in Secondary Education
A minor in secondary education requires six units, including Education 210, 221, 324, 338, 341, 342; and Psychology 215. Students may substitute Psychology 210/211 for Psychology 215. NOTE: Completion of a minor in Secondary Education does not meet all requirements for secondary teacher licensure. A 2.5 GPA and successful Praxis I test scores, as previously outlined, are required for granting the minor.

Art Education

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDUC 210</td>
<td>Principles of Education</td>
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<tr>
<td>EDUC 221</td>
<td>The Exceptional Student</td>
</tr>
<tr>
<td>EDUC 324</td>
<td>Secondary Methods (6-12)</td>
</tr>
<tr>
<td>EDUC 338</td>
<td>Field-Based Internship</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>Teaching Reading &amp; Writing in the Content Areas</td>
</tr>
</tbody>
</table>
EDUC 342 Instructional Technology in PK-12 Classrooms
EDUC 402-404 Student Teaching PK-12 (two units)
PSYC 215 Child & Adolescent Development for Teachers
ART 105 Arts and Crafts in the Schools
ART 110 Two-Dimensional Design
ART 120 Basic Drawing
ART 130 Three-Dimensional Design
ART 240 Children and Their Art (at Hollins University)
ART 240 History of Art: Prehistoric through Medieval
ART 245 History of Art: Renaissance through Modern

Eight additional units*

*Two units at or above the 200 level in one area. (Areas include Art History, Ceramics, Drawing, Graphic Art, Painting, Photography, Printmaking, and Sculpture.) Four units at or above the 300 level, including Art 498 and Art 499. Two additional units at or above the 200 level.

English
EDUC 210 Principles of Education
EDUC 221 The Exceptional Student
EDUC 324 Secondary Methods (6-12)
EDUC 338 Field-Based Internship
EDUC 341 Teaching Reading & Writing in the Content Areas
EDUC 402A&B Student Teaching (two units)
PSYC 215 Child and Adolescent Development for Teachers
GST 101-102 Writing Course I & II
COMM 220 Public Speaking or
COMM 101 Principles of Communication
ENGL 220 Special Topics or
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

At least one one-unit literature course from four of the five periods of literature as follows:

Middle Ages
FREN 421 The Medieval World

Renaissance
FREN 431 The Renaissance Era
FREN 441 17th and 18th Century Literature

19th Century
FREN 411 French Poetry
FREN 451 19th-Century Literature

20th Century
FREN 461 20th-Century Novel
FREN 462 20th-Century Drama

Majors must also take:
FREN 301 French Conversation

Majors must take one unit in civilization and culture from:
FREN 311 or 312 French Civilization and Culture I or II
FREN 315 Francophone Societies

French
EDUC 210 Principles of Education
EDUC 221 The Exceptional Student
LANG 341 Methods of Teaching Foreign Languages or
EDUC 324 Secondary Methods (6-12)
EDUC 338 Field-Based Internship
EDUC 341 Teaching Reading & Writing in the Content Areas
EDUC 402A&B Student Teaching (two units)
PSYC 215 Child and Adolescent Development for Teachers
FREN 101-102 Elementary French I, II
FREN 201-202 Intermediate French I, II

Eight additional units*

*Two units at or above the 200 level in one area. (Areas include Art History, Ceramics, Drawing, Graphic Art, Painting, Photography, Printmaking, and Sculpture.) Four units at or above the 300 level, including Art 498 and Art 499. Two additional units at or above the 200 level.

Speech
COMM 220 Public Speaking
COMM 101 Principles of Communication
TART 111 Voice and Diction
### German

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<tr>
<td>EDUC 221</td>
<td>The Exceptional Student</td>
<td>HHP 302</td>
<td>Physical Education Methods</td>
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<tr>
<td>EDUC 338</td>
<td>Field-Based Internship</td>
<td>HHP 404</td>
<td>Physical Education Methods &amp; Materials I: NK-7</td>
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<td>EDUC 341</td>
<td>Teaching Reading &amp; Writing in the Content Areas</td>
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<td>A&amp;B Student Teaching (two units)</td>
<td>EDUC 402-404</td>
<td>Student Teaching PK-12 (two units)</td>
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<td>PSYC 215</td>
<td>Child &amp; Adolescent Development for Teachers</td>
<td>GRMN 101-102</td>
<td>Elementary German I, II</td>
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<tr>
<td>GRMN</td>
<td>201-202 Intermediate German I, II</td>
<td>HHP 201</td>
<td>Skill Analysis: Individual/Dual Sports I</td>
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<td>GRMN 301</td>
<td>German Composition and Conversation</td>
<td>HHP 202</td>
<td>Health Fitness Concepts and Applications</td>
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<tr>
<td>GRMN 314</td>
<td>The Cultures of the German-Speaking Countries or (“or”)</td>
<td>HHP 203</td>
<td>Skill Analysis: Individual/Dual Sports II</td>
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<tr>
<td>GRMN 315</td>
<td>The Post-War Germanies</td>
<td>HHP 204</td>
<td>Skill Analysis: Team Sports I</td>
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<td>GRMN 320</td>
<td>Age of Goethe: Faust</td>
<td>HHP 205</td>
<td>Skill Analysis Team Sports II</td>
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<tr>
<td>GRMN 321</td>
<td>Survey of German Literature</td>
<td>HHP 206</td>
<td>Skill Analysis: Fundamentals of Dance</td>
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<tr>
<td>GRMN 461</td>
<td>20th-Century Fiction</td>
<td>HHP 221</td>
<td>Professional Concepts and Leadership Development</td>
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<td>20th-Century Drama</td>
<td>HHP 301</td>
<td>Personal and Community Health</td>
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<td>HHP 305</td>
<td>Adapted and Developmental Physical Education</td>
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<td>HHP 335</td>
<td>Comprehensive Coordinated School Health</td>
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<td>HHP 402</td>
<td>Kinesiology</td>
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<td>HHP 409</td>
<td>Health Education Methods &amp; Materials: PK-12</td>
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<td>HHP 410</td>
<td>Exercise Physiology</td>
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<td>BIOL 101</td>
<td>Life on Planet Earth</td>
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<td>BIOL 230</td>
<td>Human Anatomy and Physiology I</td>
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<td>HHP 223</td>
<td>First Aid &amp; Safety (or demonstrated competency in “Responding to</td>
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<td>Emergencies” course)</td>
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<td>([Two Physical Education activities from catalog listings, one of which must be HHP 160.] )</td>
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### Spanish

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### Health and Human Performance (PK-12)

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### Mathematics

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*One other one-unit Spanish elective from upper-division offerings.*

[Two Physical Education activities from catalog listings, one of which must be HHP 160.]
PSYC 215  Child & Adolescent Development for Teachers
MATH 101  Contemporary Mathematics
MATH 121-122  Introductory Calculus I-II
MATH 201  Linear Algebra

Three other one-unit 200-level courses from department offerings
(other upper-level courses may be substituted for Math 101)
STAT 101  Introductory Statistics
(Stat 202 Probability may be substituted)
CPSC 101  Introduction to Computers or
CPSC 120  Fundamentals of Computer Science I

Algebra I
EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402A&B  Student Teaching (two units)
PSYC 215  Child and Adolescent Development for Teachers
MATH 101  Contemporary Mathematics
MATH 121-122  Introductory Calculus I-II
MATH 131  Discrete Mathematics
MATH 201  Linear Algebra
STAT 101  Introductory Statistics
(Statistics 202 Probability may be substituted)

One, one-unit computer science course

Computer Science
EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods (6-12)
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402A&B  Student Teaching (two units)
PSYC 215  Child and Adolescent Development for Teachers
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 310  Topics in Applied Computing
CPSC 340  Database Systems
CPSC 370  Computer Architecture and Operating Systems
BUAD 258  Information Systems I-Concepts & Applications

Biology
EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods (6-12)
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402A&B  Student Teaching (two units)
PSYC 215  Child & Adolescent Development for Teachers
BIOL 115  Diversity of Life
BIOL 120  Continuity of Life
BIOL 215  Components of Life

One unit from Organismal A: Biol 240, 265, 365;
One unit from Organismal B: Biol 270, 275, 290, 320, 375;
One unit from Molecular or Cell courses: Biol 330, 390, 400, 420, 430, 490; Four additional units from Biology department offerings

Also:
CHEM 111-112  General Chemistry I & II
CHEM 221-222  Organic Chemistry I & II
PHYS 103-104  Fundamentals of Physics I-II
MATH 101  Contemporary Mathematics
STAT 101  Introductory Statistics

It is recommended that students seeking this endorsement substitute MATH 121 (Introductory Calculus I) for one of the math requirements and Physics 201-202 (General I-II, which are calculus-based) for Physics 103-104.

Chemistry
EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods (6-12)
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402 A&B  Student Teaching (two units)
PSYC 215  Child & Adolescent Development for Teachers
CHEM 111-112  General Chemistry I & II
CHEM 221-222  Organic Chemistry I & II
CHEM 331-332  Physical Chemistry I & II

Three other units from department offerings
Also:

BIOL 115  Diversity of Life
PHYS 201-202  General I-II
MATH 121  Introductory Calculus I

Physics

EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods (6-12)
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading and Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402 A&B  Student Teaching (two units)
PSYC 215  Child & Adolescent Development for Teachers
PHYS 201-203  General Physics I, II, III
PHYS 315  Experimental Physics
PHYS 370  Thermal Physics
PHYS 453  Electronics
PHYS 499  Special Topics

Also:

MATH 121-122  Introductory Calculus I-II
MATH 221  Mathematical Analysis I
MATH 331  Differential Equations
CHEM 111-112  General Chemistry I & II
BIOL 115  Diversity of Life

History and Social Science

EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods (6-12)
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402 A&B  Student Teaching (two units)
PSYC 215  Child & Adolescent Development for Teachers
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.

BIOL 115  Diversity of Life
PHYS 201-202  General I-II
MATH 121  Introductory Calculus I

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 departmental offerings

POLI 102  American National Government two other one-unit political science courses from departmental offerings

Music Education (Vocal/Choral PK-12)

EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402-404  Student Teaching PK-12 (two units)
PSYC 215  Child & Adolescent Development for Teachers
MUSC 150  Fundamentals of Music
MUSC 339  Music Education in the Elementary School
MUSC 340  Music Education in Secondary School
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 350  20th-Century Theory
MUSC 360  Music in Culture

Private applied music (5 sem. @ ¼ unit each = 1.25 units)
Second private applied music (4 sem. @ ¼ unit each = 1 unit)
Ensemble (7 sem. @ ¼ unit each = 1.75 units)

Theatre Arts (PK-12)

EDUC 210  Principles of Education
EDUC 221  The Exceptional Student
EDUC 324  Secondary Methods (6-12)
EDUC 338  Field-Based Internship
EDUC 341  Teaching Reading & Writing in the Content Areas
EDUC 342  Instructional Technology in PK-12 Classrooms
EDUC 402 A&B  Student Teaching (two units)
PSYC 215  Child & Adolescent Development for Teachers
TART 125  Stagecraft
TART 150  Play Analysis
TART 211-212  Acting I-II

Three other Theatre Arts courses (three units)
210 Principles of Education  
Historical, philosophical, and social principles of American education. Curricular patterns and objectives with emphasis on present-day changes and legal implications for schools and teachers. (1)  
Lecture: 3 hrs/wk.

211 Children's and Adolescent Literature  
A survey of child and adolescent literature (PK-6) for those who plan to become pre-school, kindergarten, elementary, or middle school teachers. (1)  
Lecture: 3 hrs/wk.  
Prerequisite or co-requisite: Education 210.

221 The Exceptional Student  
Study of the development of children with exceptional needs (e.g., gifted, students with disabilities). (I)  
Lecture: 1.5 hrs/wk.  
Prerequisite: Education 210.

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, 3/2)

324 Secondary Methods (6-12)  
Curriculum making and instructional planning, including technology and organization of the middle and secondary school. Current practices and trends in teaching at the middle and secondary level. (1)  
Lecture: 3 hrs/wk.  
Prerequisite: Education 210 and Psychology 211 or 215 or Education 221.

333 Teaching Mathematics in the Elementary School  
The focus of this course is upon the goals, content, materials, methods, and technology of teaching mathematics in grades PK-6. (1)  
Lecture: 3 hrs/wk.  
Prerequisite: Education 210.

334 Teaching Science in the Elementary School  
The focus of this course is upon goals, content, materials, methods, and technology of teaching science in grades PK-6. (1)  
Lecture: 3 hrs/wk.  
Prerequisite: Education 210.

NOTE: Intensive Learning 177 Hands-On Science may be substituted for EDUC 334 provided the student has taken Biology as his/her lab science.

335 Teaching Social Studies in the Elementary School  
The focus of this course is on the goals, content, materials, methods, and technology of teaching social studies in grades PK-6. (1)  
Lecture: 3 hrs/wk.  
Prerequisite: Education 210.

336 Teaching of Reading and Language Arts in the Elementary School  
This course examines principles and techniques related to the teaching of reading, writing, spelling and oral communication. The course is required of students preparing to teach in pre-school through the sixth grade. (1)  
Lecture: 3 hrs/wk.  
Prerequisite: Education 210.

338 Field-Based Internship  
Practical experience in a public school classroom as a participant observer under the supervision of classroom teachers and an Education faculty member. (I)  
Seminar: 1 hr/wk.; Laboratory: Minimum 155 hours in schools.  
Prerequisite: Education 210; application by October 15th or March 15th and approval.

340 Field Experience in Reading Instruction and Diagnosis  
Techniques that can be used by the classroom teacher in evaluating reading progress and discovering each child's needs, with methods for meeting these needs through differentiation of instruction and remediation in the classroom. (I)  
Lecture: 1.5 hrs/wk.; Laboratory: Field experience is required.  
Prerequisite: Education 210, 336; application and approval by Department.

341 Teaching Reading and Writing in the Content Areas  
Teaching elementary and secondary students reading, writing, and study skills in the subject matter areas. (1)  
Lecture: 3 hrs/wk.  
Prerequisite: Education 210.

342 Instructional Technology  
Applying productivity tools and electronic technologies for instructional and professional purposes is an integral part of PK-12 classroom instruction. Preservice teachers will explore the use of spreadsheets, databases, the Internet, presentation software, word processing, education software, and other application software for instructional purposes. (II)  
Lecture: 1.5 hrs/wk.  
Prerequisite: Education 210 and one other Education course, not Education 221.
402 Student Teaching-Grades 6-12, Secondary
The student may elect student teaching in a middle or secondary field. (1, 1)
Seminar: 1 1/2 hrs/wk.; Practicum: Minimum 65 school days.
Prerequisite: Application and approval.

404 Student Teaching-Grades PK-6, Elementary
The student may elect student teaching in grades pre-school through six. (1, 1)
Seminar: 1 1/2 hrs/wk.; Practicum: Minimum 65 school days.
Prerequisite: Application and approval.

405, 406, 407 Independent Study and Research
Selected research projects or topics in education carried out under the supervision of the departmental staff. (½, 1, ½)
Prerequisite: Permission.

ENGLISH

Professors Denham, Heller, Lape; Associate Professors Carter, Hanstedt, Hoffman, Kuchar, V. Stewart, A. Turpin; Assistant Professors Almeder, Cartwright, Tenbrunsel; Teaching Associate D. Selby; Visiting Instructors Duddy, Rosti; Senior Part-time Lecturers Barton, Blevis, Brush, Brunfield, Fishwick, Powell

The English major requires 11 units of work, not including General Studies 101 and 102. 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.

General Studies 101 is a prerequisite for all English major courses.

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 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, 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, 335, 336, 337, 338, or as appropriate from English 301, 305, 308, 350, 405, 406, 407, 495, 496, or 497.

Concentration in Communications
Please see page 55 for a description of the Communications Concentration.

Concentration in Creative Writing
Please see page 57 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. (A grade of “B” or better in General Studies 101 is recommended.) (1)
Lecture: 3 hrs/wk.
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. (A grade of “B” or better in General Studies 101 is recommended.) (1)
Lecture: 3 hrs/wk.

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.
Prerequisite: General Studies 101.

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.
Prerequisite: General Studies 101.

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.
Prerequisite: General Studies 101.

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.
Prerequisite: General Studies 101.

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, Cesaire, 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 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.
NOTE: May not be taken for English major credit. (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.

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: General Studies 102.

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.

331 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.

333 The Literature of Tudor and Stuart England (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.

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 the 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 the current critical issues surrounding it. (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 Literature and Film
Critical study of selected works of literature and related films. The course may focus on a particular theme, genre, or set of authors and filmmakers, or form a focused survey of the two media. 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.

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. No credit given for one term. NOTE: Final grade for year given on a cumulative basis.) (1, 1)
   Lecture: 3 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. (½, 1, ½)

THE ENVIRONMENT PROGRAM

Assistant Professor Cawley, Coordinator

The Environment Program offers two interdisciplinary majors focused on environmental challenges. The Environmental Policy major focuses on the social science aspects and the Environmental Science major focuses on the natural science aspects of environmental challenges. Students considering either of these degrees should meet with the Environment Program Coordinator as early as possible since careful course planning is necessary to complete these majors.

Major in Environmental Policy

This Major requires 16 units:

   B.A. in Environmental Policy

A. Biology—One required unit
   BIOL 115  Diversity of Life

B. Chemistry—One required unit
   CHEM 101  The Chemical Science or
   CHEM 111  General Chemistry 1
C. **Physics**—One required unit
   PHYS 101 Concepts or
   PHYS 103 Fundamental Physics I

D. **Mathematics**—One required unit
   STAT 101 Introductory Statistics

E. **Economics**—One required unit
   ECON 120 Introduction to Economics or
   ECON 121 Microeconomics

F. **Political Science**—Four required units
   POLI 102 American National Government
   POLI 201 State and Local Government
   POLI 251 Environmental Public Policy
   POLI 245 Public Affairs Inquiry

G. **Sociology**—Two required units
   SOCI 101 Introduction to Sociology
   SOCI 337 Environmental Sociology

H. **Environment Program**—Four required units
   ENVI 200 Environmental Science
   ENVI 305 Environmental Impact Assessment
   ENVI 400 Environment Clinic
   One unit of internship or independent study chosen from
   ENVI 416 Internship, ENVI 405, 406, 407 Independent Study, or
   ENVI 495, 496, 497 Honors Project

I. **Electives**—Two required units
   Two units chosen from:
   CHEM 250 Environmental Analytical Chemistry
   CHEM 370 Environmental Chemistry
   BIOL 360 Terrestrial Ecology

**Minors in the Environment Program**

There are two minors offered in this program, each requiring six units.

**MINOR IN ENVIRONMENTAL POLICY**
   BIOL 101 Life on Planet Earth or
   BIOL 115 Diversity of Life
   CHEM 101 The Chemical Science or
   CHEM 111 General Chemistry I
   ENVI 200 Environmental Science
   POLI 251 Environmental Public Policy
   Two units chosen from:
   ENVI 305 Environmental Impact Assessment
   SOCI 337 Environmental Sociology
   One unit of ENVI 416 or ENVI 405, 406, 407

**MINOR IN ENVIRONMENTAL SCIENCE**
   BIOL 101 Life on Planet Earth or
   BIOL 115 Diversity of Life
   CHEM 101 The Chemical Science or
   CHEM 111 General Chemistry I
   ENVI 200 Environmental Science
   POLI 251 Environmental Public Policy
Two units chosen from:

- BIOL 360 Terrestrial Ecology
- ENVI 305 Environmental Impact Assessment
- ENVI 310 Modeling Environmental Interactions
- CHEM 250 Environmental Analytical Chemistry
- CHEM 370 Environmental Chemistry

One unit of Environmental Science 416 or Environmental Science 405, 406, 407

* These courses have additional prerequisites. See their catalog listings.

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 115 and Chemistry 101 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.

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 Env. Policy or Env. Sci., 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, 1/2)
Prerequisites: Major or minor in Env. Policy or Env. Sci., 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 Env. Policy or Env. Sci., 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: Enrollment in the honors program. 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 Jordahl, Talbot; Associate Professors Kalinoski, Ogier, Ruiz; Assistant Professors Flores-Silva, Scaer; Teaching Associate Myers; Part-time Senior Lecturers D. Frost, Saari; Part-time Lecturers Chapman, Flores-Silva, A. Frost, Gamber, Goss, Oguro, Wise

A modern foreign language major consists of the completion of at least 11 units above the 205 level in one language. A major must be enrolled in at least two one-unit courses of 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 a Foreign Language major or 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 normally be placed at the 102 level. Students who have studied the same language for four or more years or who have completed Advanced Placement Study will be placed at the 201 level. The 201 course reviews the language from the beginning. If a student successfully completes a course, he or she may not take a lower-level course in the same language for credit.

Students who study abroad should select, in consultation with their advisors, appropriate substitutes for these requirements. (With department approval, French 411 and 480 may count for one of the above periods.) 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 (Linguistics 320) may be counted towards the major.

It is suggested that majors:

a) interested in continuing their studies in graduate school take French 301, 302, 311 or 312, and one literature course from each of the five periods of literature, and acquire a working knowledge of another foreign language;

b) interested in teaching French take Language 341, Linguistics 320, French 223, 301, 302, 303, 304, 311 or 312, 315, and enough courses in another subject or foreign language to meet licensure requirements in a second area;

c) interested in business or international diplomacy take French 110, 301, 303, 304, 311 and or 312, or 315, Business Administration 211, Political Science 231.

MINOR IN FRENCH

A minor in French consists of six units, including:

French 201 and 202, or two elective units
French 301 or 302, 303 or 304
French 311 or 312 or 315 and two units to be selected from French courses numbered 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.

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.

105 Introductory French Conversation

A review of the fundamentals of the four skills with emphasis on current, everyday speech. Designed for students who have had at least two years of French in secondary school but who have interrupted their studies or whose preparation is inadequate. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

107 French Life and Culture

Panorama of the life of French-speaking people. Topics include daily life; customs; cuisine; artistic, intellectual, and cultural achievements; as well as basic phrases in French. (Course is normally taught abroad and is taught in English.) (1)

Lecture: 3 hrs/wk.

FRENCH

Professor Jordahl; Assistant Professor Scac, Part-time
Senior Lecturer D. Frost; Part-time A. Frost

A major in French consists of the completion of at least 11 units above the 205 level in this language. A major must be enrolled in at least two one-unit courses in French during the senior year.

French 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.

Majors must take two one-unit language courses on the advanced level, one civilization and culture unit, and at least one one-unit literature course from four of the five periods of literature below:

1. Middle Ages: 421
2. Renaissance: 431, 411
3. 17th and 18th Centuries: 441
4. 19th Century: 411, 451
5. 20th Century: 223, 461, 462

Students who study abroad should select, in consultation with their advisors, appropriate substitutes for these requirements. (With department approval, French 411 and 480 may count for one of the above periods.) 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 (Linguistics 320) may be counted towards the major.

It is suggested that majors:

a) interested in continuing their studies in graduate school take French 301, 302, 311 or 312, and one literature course from each of the five periods of literature, and acquire a working knowledge of another foreign language;

b) interested in teaching French take Language 341, Linguistics 320, French 223, 301, 302, 303, 304, 311 or 312, 315, and enough courses in another subject or foreign language to meet licensure requirements in a second area;

c) interested in business or international diplomacy take French 110, 301, 303, 304, 311 and or 312, or 315, Business Administration 211, Political Science 231.

MINOR IN FRENCH

A minor in French consists of six units, including:

French 201 and 202, or two elective units
French 301 or 302, 303 or 304
French 311 or 312 or 315 and two units to be selected from French courses numbered 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.

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.

105 Introductory French Conversation

A review of the fundamentals of the four skills with emphasis on current, everyday speech. Designed for students who have had at least two years of French in secondary school but who have interrupted their studies or whose preparation is inadequate. (1)

Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.

107 French Life and Culture

Panorama of the life of French-speaking people. Topics include daily life; customs; cuisine; artistic, intellectual, and cultural achievements; as well as basic phrases in French. (Course is normally taught abroad and is taught in English.) (1)

Lecture: 3 hrs/wk.
110 French for Business
Fundamentals of commercial French, business terms, and vocabulary for office usage. Letter writing, a review of grammar, conversational practice for business and travel, culture capsules, selected readings on the intermediate level. (1)
Lecture: 3 hrs/wk.; Laboratory: 1 hr/wk.
Prerequisite: Two years of secondary school French, or French 102, or the equivalent.

201, 202 Intermediate French I, II:
Language and Culture
A review of grammar. Selected reading, conversation, 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.

205 Modern French Literature in English Translation
A consideration of the major works of the 19th- and 20th-century French authors. (This course is taught in English.) (1)
Lecture: 3 hrs/wk.
NOTE: For any course above the 205 level, 201-202 or the equivalent is a prerequisite.

The following are taught in French:

223 Francophone Literature
Literature written in the French language outside France, including the works of significant writers within the French cultural spheres of Africa, Canada, and the Caribbean. (1)
Lecture: 3 hrs/wk.

301 French Conversation
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 one’s skills in 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 present. Attention is paid to the language, daily life, customs, art, and music of the country. (1)
Lecture: 3 hrs/wk.

315 Francophone Societies
A study of political, economic, social, and cultural issues in selected contemporary Francophone societies. Three French-speaking countries, selected from Europe, 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.

380 Special Studies in French Language, Literature, and Culture
Class study of a special topic, with topic 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. (½, 1)
Prerequisite: By permission.

411 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
Major novels of the 20th century including authors such as Gide, Proust, Camus, Sartre, and Robbe-Grillet. (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. (½, 1, ½)

GENERAL STUDIES
Dr. Gordon Marsh, Director

Six one-unit core courses are distributed throughout the student’s years at Roanoke College. All emphasize writing and critical thinking.

101 The Writing Course I: Language and Thought
The first course of the two-term sequence in writing, containing both instructor choice and core readings. Major emphasis is placed on writing, with additional emphasis on critical thinking, research skills, and an introduction to a liberal arts education. (1)
Lecture: 3 hrs/wk.

102 The Writing Course II
The second course of a two-term sequence in writing. Major emphasis is placed on persuasive writing, with additional emphasis on critical thinking, research skills, and an introduction to a liberal arts education. (1)
Lecture: 3 hrs/wk.
Prerequisite: General Studies 101.

201 Humanities I
The first of a two-term sequence of interdisciplinary courses, this course seeks to develop skills in understanding and appreciating our own and other peoples’ cultures through analysis of important works in the humanities. The course introduces students to important concepts, ideas, and institutions of western and non-western cultures up to 1600 that have shaped and continue to shape our world. (1)
Lecture: 3 hrs/wk.
Prerequisite: General Studies 102.

202 Humanities II
The second of a two-term sequence of interdisciplinary courses, this course seeks to develop skills in understanding and appreciating our own and other peoples’ cultures through analysis of important works in the humanities. The course introduces students to important concepts, ideas, and institutions of western and non-western cultures from 1600 to the present that have shaped and continue to shape our world. (1)
Lecture: 3 hrs/wk.
Prerequisite: General Studies 201.

370 Values and the Responsible Life
This course examines prominent theories of ethical action and character, and inquires into the philosophical and religious systems of value in which ethical thought and action take place. Building on the study of cultures undertaken in the Humanities sequence, the course emphasizes living traditions
of ethical thought and reflects critically on their substance as well as on their applications to particular issues. (1)
Lecture: 3 hrs/wk.
Prerequisite: General Studies 201 and General Studies 202 or consent of the instructor.

400 Senior Symposium
The study of an issue of contemporary and enduring significance drawing on the knowledge and skills from the Roanoke College curriculum. (1)
Lecture: 3 hrs/wk.
Prerequisites: Completion of the Humanities sequence and General Studies 370.

GEOGRAPHY

Professor M. Miller; Part-time Senior Lecturer Strickland; Part-time Lecturer Sawyer, Wasko

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.

150 Political Geography
An examination of the relationships between politics and territory. The course covers a variety of traditional and contemporary approaches to analyzing and understanding the complexity of political spatial forms, functions, and behavior. Several levels of political activity will be treated, ranging from micro to macro events. (1)
Lecture: 3 hrs/wk.

GERMAN

Associate Professor Ogier; Part-time Lecturer Gamber
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.

305, 406 Independent Study
Guided reading and research of a particular facet of German language, literature, or culture. (1/2, 1)
Prerequisite: By permission.

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.

462 20th-Century Drama
Selected works by such writers as Hauptmann, Brecht, Duerrenmatt, and others. (1)
Lecture: 3 hrs/wk.

HEALTH AND HUMAN PERFORMANCE

For a Bachelor of Science degree with a major in health and human performance either 11 or 12 units of work are required within the department. The core courses are Health and Human Performance 201, 202, 221, 301, 402, and 410. Note that Health and Human Performance 160 is prerequisite for Health and Human Performance 202; Health and Human Performance 201 or permission is prerequisite to Health and Human Performance 302 and 404; Health and Human Performance 221 or permission is prerequisite for all courses above the Health and Human Performance 301 level (except for independent study courses); and Biology 101 and 230 are prerequisites for Health and Human Performance 402 and 410. 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 as an elective or through an external agency. Verification of external agency certification must be presented to the department chair. In addition to the core courses, students must complete either the Teacher Licensure program, or the Exercise and Sports Studies program.
Teacher Licensure Program

HHP 203  Skill Analysis: Individual/Dual Sports
HHP 204  Skill Analysis: Team Sports I
HHP 205  Skill Analysis: Team Sports II
HHP 206  Skill Analysis: Fundamentals of Dance
HHP 302  Physical Education Methods and Materials I: PK-7
HHP 305  Adapted and Developmental Physical Education
HHP 335  Coordinated School Athletic Programs
HHP 404  Physical Education Methods and Materials II: 8-12
HHP 409  Health Education Methods and Materials I: PK-12

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.

EXERCISE AND SPORTS STUDIES PROGRAM

A student may choose to major in Health and Human Performance by completing the “Exercise and Sports Studies” program. In addition to the five core units for a Health and Human Performance major, students in this program must complete one of the following Exercise and Sports Studies emphasis options: Exercise and Sport Management, Exercise Science, Physical Activity and Aging, or Sports Communication.

EXERCISE AND SPORT MANAGEMENT

Students must complete the following:

CHEM 140  Nutritional Chemistry
BUAD 125  Accounting I
One of:
BUAD 233  Marketing Management
BUAD 254  Organizational Behavior and Management
HHP 224  Introduction to Athletic Training
and
HHP 304  Fitness Leadership
One of:
HHP 215  Behavioral Perspectives in Sport
HHP 305  Adapted and Developmental Physical Education

One unit tailored to apply to the program emphasis option of Exercise and Sport Management.

HHP 405-407  Independent Study and Research or
HHP 418  Internship

EXERCISE SCIENCE

Students must complete the following:

CHEM 140  Nutritional Chemistry
BIOL 230  Human Anatomy and Physiology I **
BIOL 260  Human Anatomy and Physiology II
HHP 224  Introduction to Athletic Training
or any two chosen from HHP 203, 204, 205, and 206 Skill Analysis
HHP 304  Fitness Leadership
One of:
HHP 215  Behavioral Perspectives in Sport or
HHP 305  Adapted and Developmental Physical Education

One unit tailored to apply to the program emphasis option of Exercise Science.

HHP 405-407  Independent Study and Research or
HHP 418  Internship

** BIOL 101 is prerequisite to this course.

PHYSICAL ACTIVITY AND AGING

Students must complete the following:

CHEM 140  Nutritional Chemistry
Two of the following **
PSYC 212  Adult Development and Aging
SOCI 227  Medical Sociology
SOCI 239  Aging and Society
HHP 224  Introduction to Athletic Training
or any two chosen from HHP 203, 204, 205 and 206 Skill Analysis
HHP 304  Fitness Leadership
One of:
HHP 215  Behavioral Perspectives in Sport or
HHP 305  Adapted and Developmental Physical Education

One unit tailored to apply to the program emphasis option of Physical Activity & Aging.

HHP 405-407  Independent Study and Research or
HHP 418  Internship

** PSYC 101 and SOCI 101 are prerequisite to these courses.

SPORTS COMMUNICATION

Students must complete the following:

Three units chosen from
COMM 102  Fundamentals of Mass Media
COMM 219  Journalism
COMM 220  Public Speaking
COMM 411  Television Production
HHP 224  Introduction to Athletic Training
or any two chosen from HHP 203, 204, 205, and 206 Skill Analysis
HHP 304  Fitness Leadership
One of:
  HHP 215  Behavioral Perspectives in Sport or
  HHP 305  Adapted and Developmental Physical Education

One unit tailored to apply to the program emphasis option of Sports Communication
  HHP 405-407  Independent Study and Research or
  HHP 418  Internship

ATHLETIC TRAINING MAJOR

The Athletic Training Education Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The program of study is designed to prepare students for NATABOC 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. Five and one-half core units (required of all majors in the department of Education, Health and Human Performance) must be taken. They include Health and Human Performance 201, 202, 221, 223 or equivalent, 301, 402, and 410.

Once accepted into the Athletic Training major, six additional units must be taken. They include HHP 307, 308, 413, 414, 415, 416, and CHEM 140. 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 415, 414, and 307 will be offered every other year starting with the academic year 2001-2002. HHP 308 and 413 will be offered every other year starting with the academic year 2002-2003. HHP 416 will be taken during the senior year.

*A student’s selection of general education courses should include the following:
  BIOL 101  Life on Planet Earth
  PSYC 101  Introduction to Psychology
  PHYS 101  Concepts I
  STAT 101  Introductory Statistics
  HHP 160  *Required of all Roanoke College students

To be considered for admission to the Athletic Training major, students must meet selection criteria established by the department of Education, 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 200 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 200 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.

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 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 competencies 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. Two hundred hours of directed observation during the first three semesters and 800 athletic training hours during the remaining five semesters, for a total of 1000 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. Competency examinations must be taken during the student’s first term at Roanoke College. The date is indicated on the orientation calendar.

Credit for Health and Human Performance Activities will be in addition to the 33 1/4 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 101-157 General (each ¼ unit)
- HHP 101 Tennis
- HHP 102 Beginning Swimming
- HHP 106 Badminton
- HHP 107 Golf (Extra fees required)
- HHP 109 Diving (Swimming proficiency is necessary.)
- HHP 110 Volleyball
- HHP 111 Dance-Tap
- HHP 112 Bowling (Must provide own transportation [arranged in class] to bowling lanes. Extra fee required.)
- HHP 114 Yoga
- HHP 116 Tai Chi
- HHP 119 Lifeguard Training (Swimming proficiency is necessary. Swim test is required.)
- HHP 121 Riding (Available through Hollins University. Extra fee required. Must provide own transportation.)
- 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 126 Intermediate Swimming (Basic deep water swimming proficiency is necessary. Swim test is required.)
- 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 132 Sailing (Extra fee required. Must provide own transportation [arranged in class].)
- HHP 136 Racquetball
- HHP 137 Self-Defense
- 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 Whitewater Canoeing (Must provide own transportation [arranged in class]. Weekend trips are scheduled and required.)
HHP 151 Intermediate Tennis
(May not receive credit for this course and HHP 101.)

HHP 156 Intermediate Racquetball
(May not receive credit for this course and HHP 136.)

HHP 157 Intermediate Golf (May not receive credit for this course and HHP 107. Extra green fees required.)

HHP 158 Bicycling

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. (%)
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.

201 Skill Analysis: Individual/Dual Sports I
The development of skill, playing strategies, and teaching progressions in tennis and badminton with the ability to analyze problems in skill development. (%)
Lecture-Laboratory: 3 hrs/wk.

202 Health Fitness Concepts and Applications
This course is designed to provide the prospective health and human performance professional with the physiological, psychological, and social bases for engaging in regular physical activity. Students will be expected to develop individualized physical fitness programs, perform physical fitness assessment, develop activities to enhance physical fitness, and be engaged in a regular physical fitness program. (%)
Lecture: 3 hrs/wk.
Prerequisite: Physical Education 160.

203 Skill Analysis: Individual/Dual Sports II
The development of skill, playing strategies, and teaching progressions in track/field and stunts/tumbling with the ability to analyze problems in skill development. (%)
Lecture-Laboratory: 3 hrs/wk.
Prerequisite: Permission.

204 Skill Analysis: Team Sports I
The coaching, teaching, and officiating of the sports of field hockey and volleyball with emphasis on skill development, teaching progressions, and coaching techniques. (%)
Lecture-Laboratory: 3 hrs/wk.
Prerequisite: Permission.

205 Skill Analysis: Team Sports II
The coaching, teaching, and officiating of the sports of soccer and basketball with emphasis on skill development, teaching progressions, and coaching techniques. (%)
Lecture-Laboratory: 3 hrs/wk.
Prerequisite: Permission.

206 Skill Analysis: Fundamentals of Dance
The development of skill and teaching progressions in folk, modern, social, and square dancing. (%)
Lecture-Laboratory: 3 hrs/wk.
Prerequisite: Permission.

207 Water Safety Instructor
This course is designed to prepare students to teach American Red Cross water safety courses. Upon successful completion of the course, the student will be qualified to teach Infant and Preschool Aquatics, Longfellow’s Whales Tales, Progressive Swimming Courses, Basic and Emergency Water Safety, and Safety Training for Swim Coaches (if candidate has previous competitive swimming experience).
Prerequisite: Must show current instructor authorization in an American Red Cross health and safety course or complete the Introduction to Health Services course within 1 year of this instructor course. Show a current certificate for the American Red Cross Emergency Water Safety course or the American Red Cross Lifeguard Training course. (%)
Lecture: 4 hrs/wk.

215 Behavioral Perspectives in Sport
A study of the behavioral factors related to sport participation and coaching athletes. (1)
Lecture: 3 hrs/wk.

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. (%)
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.
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: PK-7
A progressive program of developmentally appropriate activities for children kindergarten through seventh-grade level. Recommended for NK-8 certification. (1)
Lecture: 3 hrs/wk.; Observation in schools.
Prerequisite: Health and Human Performance 201, 221 or permission.

304 Fitness Leadership
This course is designed to prepare students for the role of fitness leader. Topics will include the management and operation of exercise facilities, physical fitness assessment, exercise prescription, nutrition assessment, and stress reduction. (1)
Lecture: 3 hrs/wk.
Prerequisite: Health and Human Performance 221 and 223 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.
Prerequisites: Health and Human Performance 201; 221 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. (½)
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 physical conditioning techniques, prophylactic taping, bracing, and padding utilized in sports medicine. (½)
Lecture: 3 hrs/wk.
Prerequisites: Admission to Athletic Training major; Health and Human Performance 221.

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 PK-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.

402 Kinesiology
The study of human motion as it relates to skill development. (1)
Lecture: 3 hrs/wk; Laboratory: 1.5 hrs/wk.
Prerequisite: Biology 230; Health and Human Performance 201, 221 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 201 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.) (½, 1, ½)

409 Health Education Methods and Materials: PK-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.

410 Exercise Physiology
A study of the physiological responses to exercise including basic anatomical and physiological foundations, fundamentals of physical training, and special considerations in physical training. (1)
Lecture: 3 hrs/wk; Laboratory: 1.5 hrs/wk.
Prerequisite: Biology 230; Health and Human Performance 202, 221 or permission.
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. (0, 1, ½)

HEALTH CARE

Health Care Administration
Professor L. Lynch

The Health Care Administration concentration is designed primarily for students interested in Hospital or Health Care Administration. 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
- ECON 120 Introduction to Economics
- ECON 121 & 122 Principles, Micro, Macro
- ECON 227 Health Care Economics
- SOCI, PHIL 223 Ethics and Medicine
- SOCI 227 Medical Sociology
- BUAD 125 Accounting Principles I
- BUAD 258 Information Systems I-Concepts and Applications
- BUAD 354 Human Resource Management

In addition, students must complete one unit from Business Administration 254 (Organizational Behavior and Management) or Psychology 250 (Industrial-Organizational Psychology) or Business Administration 416 or Sociology 416 (Internship in health care administration). Also Recommended: GST 400 (Senior Symposium: Death and Dying) and Sociology 241 (Introduction to Social Welfare).

Health Care Delivery
Professor Weiss

The Health Care Delivery track 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; Adolescent or 211 or 212 Development; Adult Development and Aging
PSYC 230 Abnormal Psychology
SOCI, PHIL 223 Ethics and Medicine
SOCI 227 Medical Sociology

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
An internship (in any discipline) in a health care delivery setting.

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 M. Miller, Millinger, J. Selby; Associate Professors Gibb, Hakkenberg, Saunders; Assistant Professors Leeson, Schadl; Senior Part-time Lecturers J.D. Long, L. Miller; Part-time Lecturers Cantrell, Dent, McNulty

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, 222, 223, 230 231, 233, 235, 290 (where appropriate)
2. Modern History (post-1600) 241, 243, 245, 246, 261, 263, 265, 266, 267, 268, 290 (where appropriate)
3. Non-Western History 210, 254, 272, 281, 282, 284, 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
3. Choice of any additional 300-level course, Independent Study, Internship, Archives Practicum, Historical Journal Editing Practicum, or Honors Project.

E. One, one-unit seminar: History 410, 420, 430, 440, 460, or 470

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 150 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.

Concentration in East Asian Studies

Dr. Susan Millinger, Advisor

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—Chinese, Japanese, or Korean (required)
2. One unit in East Asian History (required)

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 Global 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.

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.

Prerequisite: History 300 or permission of the instructor.

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.

220 Reliving the Past: A.D. 60-61
A close analysis and re-enactment of actual and typical events in Britain during A.D. 60-61, at the time of Boudicca's rebellion against the Romans. (1)
Lecture: 3 hrs/wk.

222 Early Britain and Ireland
Life in Britain and Ireland from the Stone Ages to 1066: the stone and early metal ages, the Celts, the Romans, the Angles and Saxons, and the Vikings. (1)
Lecture: 3 hrs/wk.

223 Britain and Ireland in the High Middle Ages
Life in Britain and Ireland from 1066 to 1485: a study of the rulers and subjects, of daily life and major events. (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)
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 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.

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)
Lecture: 3 hrs/wk.

254 Modern Africa
An introduction to the history of Africa, with emphasis on sub-Saharan regions, beginning with the late 18th century. This course centers on the African experience during the last two centuries, from the decline of the Atlantic slave trade to colonization and through the era of independence. (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.

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.

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.

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.

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.

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)

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 instructor.

417 Archives Practicum
Experience in the field of archives management, under the guidance of the College archivist. (1)
Prerequisite: Permission of the Instructor.
Lecture: 3 hrs/wk.

418 Historical Journal Editing Practicum
An internship in the 16th-century Journal Book Review Office. (1)
Prerequisite: Permission of the instructor.
Lecture: 3 hrs/wk.

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.

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.

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. (½, 1/2)

HONORS COURSES

Professor Hakkenberg, Director; Teaching Associate J. Minton, Associate 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 General Education 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. (½)

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.

INTENSIVE LEARNING

Dr. Stewart, Director

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 every May during a three-week term. All students are required to complete at least one unit of Intensive Learning to graduate from Roanoke College.
**IL 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 complete 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:
   - ECON 237  
   Comparative Economic Systems
   - ECON 247  
   Global Trade and Finance
   - BUAD 211  
   Introduction to Global Management
   - BUAD 333  
   Global Marketing
   - 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:
   - POLI 225  
   Comparative Political Systems: Latin America
   - POLI 331  
   The Making of U.S. Foreign Policy
   - HIST 266  
   Modern American Diplomatic History
   - HIST 272  
   Latin America
   - SPAN 315  
   Contemporary Issues: Spanish America

B. *European Perspectives:*
   One unit from:
   - POLI 221  
   Comparative Political Systems: Europe
   - HIST 241  
   Modern Russia
   - HIST 243  
   Modern Britain

HIST 340  
Issues in Modern European History
GRMN 315  
The Post-War Germans

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 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:

- HIST 245  
History of World War II
- HIST 268  
The Vietnam War
- IREL 245  
Public Affairs Inquiry
- IREL 345  
Public Affairs Data Analysis
- SOCI 102  
Anthropology
- SOCI 324  
Social Stratification
- CJUS/SOCI 326  
Comparative Corrections
- SOCI 335  
Population and Society
- FREN 311  
French Civilization and Culture I or
- FREN 312  
French Civilization and Culture II or
- FREN 315  
Francophone Societies
- GRMN 311  
German Civilization and Culture or
- GRMN 314  
Cultures of German-Speaking Countries
- 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, or seminar unit within a relevant discipline. This must be approved by the program 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 prerequisite 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 125, and 233 are prerequisites for Business Administration 333.

5. Religion 270 and International Relations 261 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.

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.

245 Public Affairs Inquiry
An examination of the research techniques used in the study of politics. Both qualitative and quantitative methods will be explored. (1)
Lecture: 3 hrs/wk.
(Cross-listed with Political Science 245, Criminal Justice 245).

261 Selected Topics in International Relations
An examination of selected topics in international relations. (1)
Lecture: 3 hrs/wk.

345 Public Affairs Data Analysis
An examination of the basic skills involved in the analysis of data, including an introduction to the computer. (1)
Lecture: 3 hrs/wk.
Prerequisites: Political Science 245 and Statistics 101.
(Cross-listed with Criminal Justice 345 and Political Science 345).

401 Senior Seminar in International Relations
A multidisciplinary seminar on selected topics in international relations for senior students. The course is required for IR majors. (1)
Seminar: 3 hrs/wk.
Prerequisite: Permission of the instructor.

406 Independent Study
Supervised review of literature and a research project in the area of international relations. (1)
Prerequisite: Departmental permission.

416 Internship
A supervised placement providing practical experience in an agency relating to international relations. (1)
Prerequisite: Departmental 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. (½, 1, ½)

ITALIAN

Part-time Lecturer 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.

JAPANESE

Part-time Lecturer Oguro

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.
LANGUAGE

Professors Jordahl, Talbot; Associate Professors Kalinoski, Ogier, Ruiz; Assistant Professors Scaer, Flores-Silva

A major in language is not offered at Roanoke College. The following courses may not be counted toward the French or Spanish majors.

101 English as a Second Language
A study of the fundamentals of English with special emphasis on speaking and understanding the language. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
This course should be taken as a prerequisite for GST 101: Language and Thought I by all international students whose first language is not English, UNLESS a student has attained a TOEFL score of 600 or above. The requirement may be waived if a student obtains high marks on a college-administered test of English for academic purposes, to be taken during orientation at Roanoke College.

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.

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. K-12 levels of instruction will be presented. (1)
Lecture: 3 hrs/wk.

405, 406 Independent Study
Guided reading and research of a particular facet of a foreign language, literature, and culture. (%, 1)
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.)

LINGUISTICS

Associate Professor Ogier

A major in linguistics is not offered at Roanoke College.
Linguistics 320 may count toward a foreign language major or minor.

320 Basic Linguistics
The scientific study and description of language according to the principles of modern linguistics. (1)
Lecture: 3 hrs/wk.

MATHEMATICS

Professors Ergle, Ingram, R. Minton, Spielman; Associate Professor C. Lee; Teaching Associates J. Minton, Staniunas; Part-time Lecturer Bauman

The Bachelor of Science degree with a major in mathematics requires the completion of 13 units of mathematics or statistics. These units must include Math 131, 201, 221, 222, 331, 361, 431, 432, 491, and Stat 202; and three units in mathematics or statistics numbered 300-level or above.
Math 121 and 122 are prerequisite to all courses in the mathematics major.

The Bachelor of Arts degree with a major in mathematics requires the completion of ten units of mathematics or statistics. These units must include Math 131, 201, 221, 331, 491, and Stat 202; and two units from among Math 306, 361, 431, 432, 481; and two units in mathematics or statistics numbered 300-level or above. Math 121 and 122 are prerequisite to all courses in the mathematics major.

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. (Not open to students who have received credit for either Mathematics 104 or 105 or 112 or higher.) (1)
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 Introductory Calculus I
Limits, differential and integral calculus of the elementary functions with associated analytic geometry. (Credit cannot be received for both Mathematics 112 and 121.) (1)
Lecture: 3 hrs/wk.
Prerequisite: Mathematics 121.

122 Introductory Calculus II
Techniques of one-variable calculus, methods of integration, numerous applications. (1)
Lecture: 3 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.

221 Mathematical Analysis I
Inverse trigonometric functions, integration techniques, trigonometry integrals, partial fractions, conic sections, improper integrals, Taylor polynomials, convergence of sequences and series. (1)
Lecture: 3 hrs/wk.
Prerequisite: Mathematics 122.

222 Mathematical Analysis II
Indeterminate forms, quadratic surfaces, polar coordinates, parametric equations, multiple integrals, partial differentiation. (1) Lecture: 3 hrs/wk.
Prerequisite: Mathematics 221.

306 Topology
Topological spaces, functions, mappings, connectedness, compactness, metric spaces. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 131 and 201.
(Offered in 2002-2003 and alternate years.)

331 Differential Equations
Ordinary differential equations with applications. (1)
Lecture: 3 hrs/wk.
Prerequisite: Mathematics 122.

361 Abstract Algebra
Integers, congruencies, residue classes; groups, rings, integral domains, and fields; polynomials. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 131 and 201.
(Offered in 2002-2003 and alternate years.)

402 Numerical Analysis
Numerical integration and numerical solution of differential equations, numerical methods in linear algebra, matrix inversion, estimation of characteristic roots; error propagation and stability. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 201, 221, Computer Science 120.
(Offered in 2003-2004 and alternate years.)

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 I
Real and complex numbers, set theory, metric spaces, Euclidean spaces, continuity, differentiation. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 131 and 221.
(Offered in 2003-2004 and alternate years.)

432 Real Analysis II
Riemann-Stieltjes integral, series of numbers, series of functions, series expansions. (1)
Lecture: 3 hrs/wk.
Prerequisite: Mathematics 431.
(Offered in 2003-2004 and alternate years.)
**481 Complex Analysis**
Complex numbers, analytic functions, conformal mappings and boundary value problems, contour integration, Cauchy's theorem, Taylor and Laurent series, analytic continuation, integral transforms. (1)
Lecture: 3 hrs/wk.
Prerequisite: Mathematics 221.
(Offered in 2002-2003 and alternate years.)

**482 Applied Mathematics**
Lecture: 3 hrs/wk.
Prerequisite: Mathematics 331.
(Offered in 2002-2003 and alternate years.)

**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)

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 medical technology consists of a minimum of 12 course units as described below:

**Biology:** Biology 115 (Diversity of Life), Biology 120 (Continuity of Life), Biology 215 (Components of Life), 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 101 (Concepts).

In addition, the student is advised to take Chemistry 341 (Biochemistry) and Computer Science 150 (Introduction to Computer Science I) for elective credit. Statistics 101 (Introductory) 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 medical technology advisor, Dr. Darwin Jorgensen, at the earliest opportunity.

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**MUSIC**

Professor J. Sandborg; Associate Professor Marsh; Assistant Professor Blaha; Teaching Associates Bachelder, M. Sandborg, and Weinstein; Senior Part-time Lecturers Bithell, Kemper, LeFever, McNeill, Roudebush, Wojtera.

A Bachelor of Arts degree with a major in music requires the completion of a minimum of 11½ 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 units)
- 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)

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**MEDICAL TECHNOLOGY**

Professor Jorgensen

A Bachelor of Science degree with a major in medical technology 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 medical technology program of Roanoke Memorial Hospital.
MUSC 323 Conducting (½ unit)
MUSC 350 20th-Century Theory
MUSC 360 Music in Culture
MUSC 361 History and Analysis I: 300 A.D. to 1750
MUSC 362 History and Analysis II: 1750 to present

*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 (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 252. 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 321 or MUSC 350 or MUSC 360. 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.) (3)
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. (3)
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.

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 vocal 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 Collegium Musicum
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.

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: 1 hr/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.
Prerequisites: Music 321 or 350 or permission of instructor.
(Offered in alternate years or as demand indicates.)

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 361 or permission.

299 Special Topics
Selected studies in specialized performance, composition, or literature/history areas. May be repeated for credit. (1/4)
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.
Prerequisite: Music 252.
(Offered in alternate years or as demand indicates.)

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. (½)
Lecture-Laboratory: 3 hrs/wk.
Prerequisite: Music 321 or permission.
(Offered in alternate years or as demand indicates.)

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.

360 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.
Prerequisite: MUSC 262 or MUSC 362.

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. (½, 1, ½)
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. (½, 1, ½)
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. (½, 1, ½)
PHILOSOPHY

Professors Hinlicky, Wisniewski; Associate Professor Zorn; Assistant Professor Adkins

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 211 Philosophical Issues in the Sciences
- PHIL 222 Business Ethics
- PHIL 223 Medical Ethics (cross-listed SOCI 223)
- PHIL 260 Selected Topics in Philosophy
- PHIL 265 American Philosophy

**Advanced** (at least two)

- PHIL 310 Kant’s Critical Philosophy
- PHIL 321 Philosophy of Religion
- PHIL 330 Nietzsche and Heidegger on Nihilism
- PHIL 332 Metaphysics

**Senior Thesis** (one)

- PHIL 410, 411, 412 (%), (1), (%) or
- PHIL 495, 496, 497 (%), (1), (%) or

- 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 major)

- 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, 211, 222, 223, 260, 265 Advanced (at least two)
- PHIL 310, 321, 330, 332

- 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? and 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)

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.

Prerequisite: Previous philosophy course or permission. (1)

211 Philosophical Issues in the Sciences

An inquiry into the assumptions behind scientific methods, the aims of scientific achievements, and the history of scientific discovery. (1)

Lecture: 3 hrs/wk.

Prerequisite: Previous philosophy course or permission.

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)
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)
Lecture: 3 hrs/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 with Sociology 223.)

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.

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.

321 Philosophy of Religion
Is it reasonable to believe in God? Can we know anything about God? Different ways of responding to these questions, along with the different views of rationality and religion they imply, are explored using classical and contemporary sources. (1)
Lecture: 3 hrs/wk.
Prerequisite: Previous philosophy course or permission.

330 Nietzsche and Heidegger on Nihilism
A consideration of Nietzsche's charge that Christian and Plantonic thought is Nihilistic. It examines Heidegger's commentary on Nietzsche's attack, and makes inquiries concerning the connection between nihilism and nazism. (1)
Lecture: 3 hrs/wk.
Prerequisite: Previous philosophy course or permission.

332 Metaphysics
An examination of questions concerning the ultimate nature of reality, including such topics as time, identity, mind and body, language, truth, and the implications of idealist and realist approaches to these questions. (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. (½, 1, ½)

PHYSICS
Associate Professors Baghouty, Grant, Munley; Part-time Senior Lecturer Price; Adjunct Research Professor Tsao

The Bachelor of Science degree with a major in physics requires the student to complete a minimum of 15 course units in physics and related fields. These must include Physics 201, 202, 203, 315, 350, 370, 432, 499, and Mathematics 121, 122, 221, 331. Three additional units chosen from courses listed within the “career tracks” listed below. Two of these three units must be at the 400-level. Students are encouraged, but not required, to complete one of the “career tracks.”

Biological Physics Career Track: BIOL 120, 215, PHYS 451 and 452.

Experimental Physics Career Track: CHEM 111, 112, PHYS 451 and 453.

Theoretical Physics Career Track: PHYS 450, 454, MATH 482 and 1 non-core physics course 400-level or above.

Computational Physics Career Track: PHYS 455, CPSC 120, 170, MATH 402.

A Bachelor of Arts degree with a major in physics requires the student to complete a minimum of 12 course units in physics and related fields. These must include: PHYS 201, 202, 203, 315, 340, 370, 499; MATH 121, 122, 221; CHEM 111, 112 and one unit of Biology (BIOL 115 or above).

Minor in Physics
The minor in Physics requires the student to complete eight units of Physics and Mathematics including: PHYS 201, 202, 203, 315, 340; MATH 121, 122, 221 plus one additional one unit PHYS course at the 300-level or above.

103 Fundamental Physics I
The first half of a full-year elementary physics course using trigonometry, but not calculus, with emphasis on biological applications of physics. (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
The second half of a full-year elementary physics course using trigonometry, but not calculus, with emphasis on biological applications of physics. (May not be taken for credit by students who have completed Physics 202.) (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.

117 Astronomy
A descriptive study of the universe. (This course cannot be used to satisfy the General Education requirement in science.) (1)
Lecture: 3 hrs/wk.

201 General Physics I
A calculus-based, rigorous introduction to classical mechanics, wave phenomena, thermodynamics, and kinetic theory. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Co-requisite: Mathematics 121.

202 General Physics II
Continuation of 201; electricity and magnetism, light, and some applications of classical physics. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisite: Physics 201 and Mathematics 122.

203 General Physics III
Continuation of 201-202 series concentrating on special and general relativity, quantum theories, and selected applications. (1)
Lecture: 3 hrs/wk.
Prerequisites: Physics 202 and Mathematics 221.

315 Experimental Physics
Experiments in topics in advanced physics. Theory of data analysis. (1)
Lecture: 3 hrs/wk.; Laboratory: 6 hrs/wk.
Prerequisite: Physics 202.
(Offered in 2002-2003 and alternate years.)

350 Electricity and Magnetism I
Electrostatics, magnetism, direct current circuits. (1)
Lecture: 3 hrs/wk.
Prerequisites: Physics 202 and Mathematics 221.
(Offered in 2003-2004 and alternate years.)
370 Thermal Physics
Thermal behavior of systems; energy and entropy; equations of state; changes of phase; elements of continuum and statistical approaches. (1)
Lecture: 3 hrs/wk.
Prerequisite: Physics 202.
(Offered in 2003–2004 and alternate years.)

405, 406, 407 Independent Study in Physics
Advanced physics majors work under the guidance of the department faculty. (½, 1, ½)

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
Central force motion, coupled systems, rigid body motion, the Lagrangian formulation. (1)
Lecture: 3 hrs/wk.
Prerequisites: Physics 202 and Mathematics 331.
(Offered in 2002–2003 and alternate years.)

450 Electricity and Magnetism II
Alternating current circuit theory, Maxwell's equations, and electromagnetic radiation. (1)
Lecture: 3 hrs/wk.
Prerequisites: Physics 350.

451 Advanced Laboratory
Advanced techniques in experimental measurement and design offered to students particularly interested in experimental physics. (1)
Laboratory: 6 hrs/wk.
Prerequisite: Physics 315.
(Offered concurrently with PHYS 315.)

452 Biological Physics
The role of physical theory, models, and experimental techniques in the study of biological systems. Topics include biomechanics, transport through membranes, feedback and control, nuclear radiation effects, nuclear medicine, models of chemoreception, and electrical properties of cells and organisms. (1)
Lecture: 3 hrs/wk.
Prerequisite: Physics 202.

453 Electronics
Circuit and network theory, AC circuits, diodes, transistors, and modern electronic devices. (1)
Lecture: 3 hrs/wk.; Laboratory: 3 hrs/wk.
Prerequisite: Physics 202.

454 Quantum Mechanics
Origins of quantum theory, Schrödinger equation, centrosymmetric potentials, angular momentum, scattering, perturbation theory, and radiation. (1)
Lecture: 3 hrs/wk.
Prerequisite: Physics 202.

455 Computational Physics
A first course in scientific computing, the course surveys techniques for modeling physical systems. Topics include numerical differentiation, quadrature, ordinary and partial differential equations, and simulation and approximation methods. (1)
Lecture: 3 hrs/wk.
Prerequisite: Physics 202 and Math 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. (½, 1, ½)

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 Hill, Warshawsky; Associate Professors Rubongoya, Wilson; Assistant Professor Peppers; Part-time Lecturers Clayton, Maddex, Rabin

Students majoring in political science are required to complete a minimum of 12 units including Political Science 102, 201, 231, 245, 345, 401; one of 221, 222, 224, or 225; one of 311 or 312; one of 342 or 343, and 3 elective units within the major.

The department recommends that majors take economics and history courses in fulfilling General Education requirements and elective options.

Students planning to undertake graduate study in political science are advised to take a modern language, statistics, and computer course(s) to satisfy General Education and elective requirements.
Minor in American Politics
A minor consists of six units:
Political Science 102 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, 245, 251, 301, 331, 343, 345, or 410.

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, 245, 251, 252, 333, 342, or 345. At least three units must be above the 200 level.

With departmental approval, courses from among Political Science 260-262, 395-396, 401, 406, and 416 may be substituted when they include international political topics.

Concentration in Africa and the African Diaspora
Dr. Joshua Rubongoya, 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 taken 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 254 Modern 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.

II. Electives:
Two units from the following:
- ENGL 302 A Southern Literature
- FREN 201 Intermediate French
- FREN 223 Literature Outside France
- FREN 315 Francophone Societies
- HIST 272 Latin America
- 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 be selected from HIST 350, HIST 254, POLI 224, ENGL 360, SOCI 224, and IL 277 if not taken to fulfill requirements of Part I.

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

102 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 102 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 102 or permission.
204 Mass Media and American Politics
An examination of the news and entertainment media, both print and broadcast, and their effects on government, elected officials, and society. (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 102 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 102 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 102 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 102 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 102 or permission.
(cross-listed as Criminal Justice 214)

221 Comparative Political Systems: Europe
The government and politics of Great Britain, France, Germany, Russia, and the operations of the European Union. (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 102 or permission.

222 Comparative Political Systems: Asia
The government and politics of Japan, China, and Southeast Asia. (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 102 or permission.

224 Comparative Political Systems: Africa
An introduction to African politics south of the Sahara (Sub-Saharan Africa). (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 102 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 102 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 102 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.

245 Public Affairs Inquiry
An examination of the research techniques used in the study of politics. Both qualitative and quantitative methods will be explored. (1)
Lecture: 3 hrs/wk.
Prerequisites: Political Science 102 and at least one other major course or permission.
(cross-listed as Criminal Justice 245, International Relations 245)

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 102 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 102 or permission.
260, 261, 262 Selected Topics in Political Science
Student research, reports, and discussion on selected problems and themes. (½, 1, ½)
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 102 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 102 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 102 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 since World War II will also be analyzed. (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 231.

333 Global Political Economy
A broad introduction to the relationship between politics and economics at the theoretical and policy levels. (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 231.

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 102 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 102 or permission.

345 Public Affairs Data Analysis
A review of the data analysis techniques currently in use in political science and the philosophic assumptions of scientific research. (1)
Lecture: 3 hrs/wk.
Prerequisite: Political Science 245 or permission.
(cross-listed as Criminal Justice 345, International Relations 345)

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, ½)

401 Seminar in Public Policy
An in-depth investigation of topical issues in political science utilizing a public policy perspective. (1)
Lecture: 3 hrs/wk.
Prerequisites: Permission and senior status.

406 Independent Study
Supervised reading and research which results in a monograph on a particular aspect of political science. (1)
Prerequisite: Departmental permission.

410 Community Research Practicum
Supervised participation in a large scale survey research project. Course includes interviewing, data analysis, and report writing. (1)
Prerequisite: Permission.

416 Public Internship
Practical experience in working with a public agency or organization as a participant-observer, leading to the preparation of an experience report which describes and evaluates that agency’s activities. (1)
Prerequisites: Departmental permission; prerequisite courses depend on the placement. Normally limited to sophomores, juniors, and seniors.

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. (½, 1, ½)
PSYCHOLOGY

Professors Carpenter, Early, J. Lynch, Ponzanone; Associate Professors C. Camac, M. Camac, Whitson; Visiting Assistant Professor Allen; Part-time Lecturer Seidel

To declare a major in psychology the student must have at least a 2.0 GPA in all psychology courses completed at the time of the declaration of the major.

Bachelor of Arts in Psychology

Students pursuing the Bachelor of Arts degree with a major in psychology are required to complete a minimum of 11 units, including 101, 200, 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; 230, 290.

**Group B:** Physiological-Personality-Social: 315 or 325, 330, 340.

The final three units required may be selected from all Psychology courses offered except only one Internship and one Research Practicum may be applied to the major. Honors Project (495, 496, 497) does not count toward the major. Only one Special Topics course unit and only one Intensive Learning course unit may be applied to the major.

BIOL 320 (Animal Behavior) may be applied to the major.

Recommended: BIOL 101 and STAT 101.

Bachelor of Arts students are urged to satisfy one of the science core requirements with Biology 101, the mathematics core requirements with Statistics 101 and CPSC 101, and one of the social science core requirements with Sociology 101 or 102.

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 11 units in psychology and six additional math and science units including Biology 120 and Statistics 101. The psychology courses include 101, 200, 290, 450 and two units chosen from 420, 430 or 440. In addition, three units must be selected from Group C, and 2 Psychology electives. Elective units may be chosen from all Psychology courses offered except only one Internship, one Research Practicum, one Special Topics unit, and one Intensive Learning unit may be applied to the major. Honors Project (PSYC 495, 496, 497) does not count toward the major.

**Group C:**

The six additional math and science units must include Biology 120, Statistics 101, and four units from Group D:

**Group D:**
- Biology 115, 215, 230, 260, 320;
- Chemistry 111, 112, 221, 222, 341;
- Computer Science 101, 120, 170;
- Mathematics 111, 112, 121, 122;
- Physics 103, 104;
- Statistics 202, 301, 403.

(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. Some of these courses can fulfill Centers of Distinction requirements.)

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.

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 of 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 200 Research Methods or SOCI 351 or CJUS/POLI/I.R. 245
- 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. Of the following courses, only three may be offered for the major: PSYC 210, 211, 212 and 215.

**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.

**200 Research Methods**
An introduction to the empirical research methods used by psychologists. Topics include research ethics; literature review and search methods; observational, correlational, quasi-experimental, and experimental designs; hypothesis development and testing; data collection and data analysis; interpretation and presentation of empirical research. (1)
Lecture: 3 hrs/wk.; Laboratory: 1 1/2 hrs/wk.

**210 Child Development**
Behavior and development of the child from conception to puberty. (1)
Lecture: 3 hrs/wk.

**211 Adolescent Development**
Behavior and development of the individual from puberty to early adulthood. (1)
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 and Adolescent Development for Teachers**
Behavior and development from birth through adolescence, with applications to preschool, primary, middle, and secondary education. (1)
Lecture: 3 hrs/wk.

**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.

**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 200 or permission.*

**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)
*Prerequisites: 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.

405, 406, 407 Independent Study
Empirical research project or extensive literature review, with faculty supervision. (¾, 1, ¾)
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 200 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 200 and Psychology 330.

440 Research Seminar: Cognition
An advanced, research-oriented seminar in cognition. (1)
Lecture: 3 hrs/wk.
Prerequisites: Psychology 200 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.
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. Psychology 406 or Psychology 405 and 407 is a prerequisite to 495, 496, and 497. May not be used as one of the 11 units for the major. (¾, 1, ¾)

RELIGION
Professors Hinlicky, Wisnefske; Associate Professors Maclean, McDermott; Part-time Lecturers Brumberg, Delaney, Gunsten, Lee
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 111* The Hebrew Scriptures
- RELG 112 New Testament
- 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

History (at least two)
- RELG 210 The Development of Christianity
- RELG 211* Religions of the Hellenistic World
- 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 The Life and Teachings of Paul
- 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 280 History of Christian Thought

Religion and Society (at least one)
- RELG 220 Christian Ethics
- RELG 225 The Religious Life of Young Adults
- 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 330 Christian Theology and the World Religions
- PHIL 310 Kant’s Critical Philosophy
- PHIL 321 Philosophy of Religion
- PHIL 330 Nietzsche and Heidegger on Nihilism

Senior Thesis (1 unit)
- 410, 411, 412 (%, 1, %)
- 495, 496, 497 (%, 1, %)

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 111, 112, 215, 216, 217

History (at least one)
- RELG 210, 211, 212, 213, 214, 215, 216, 217, 218, 230, 280

Religion and Society (at least one)
- RELG 220, 225, 240, 246, 250, 270

Advanced (at least one)
- RELG 312, 317, 320, 330, PHIL 310, PHIL 321, PHIL 330

SOCI 327 may be considered an elective with approval of the department, as may some IL courses.

Course descriptions can be found under THEOLOGY.

RUSSIAN

Part-time Senior Lecturer Saari

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.

SOCIAL WORK

Associate Professor Smith, Coordinator

A major in social work is not offered at Roanoke College.

Concentration in Social Work
Sociology majors may earn a concentration in social work by successfully completing the following program with a cumulative grade point average of at least 2.0:

Sociology–nine units, to include 101, 250, 351, 352, and 453; Social Work 241, 341, 441, and 442; Psychology and Sociology: Psychology 230 and two units from Psychology 210, Psychology 211, and either Sociology 239 or Psychology 212.

241 Introduction to Social Welfare
Analysis of the historical development, structure, and functions of contemporary social agencies. Observation of local agencies. (1)
Prerequisite: Sociology 101 or permission.
(Cross-listed with Sociology 241).

341 Social Work Practice
An introduction to basic social work methods and theory. Focus on interviewing, problem solving, and communication skills. Attention will be devoted to the integration of personal and professional values. (1)
Prerequisite: Sociology 241 or Social Work 241.

441 Field Integrating Seminar
A course designed to enhance the integration of theory and knowledge with field agency experiences. Specialized instruction will focus on introducing and maintaining planned change. Special attention is given to ethical issues and the use of supervision. (Must be taken concurrently with Social Work 442.) (1)
Prerequisites: Social Work 341 and senior standing.

442 Field Instruction in Social Work
Supervised placement for 150 hours in a local social service agency providing direct services to individuals, groups, and/or community programs. (Must be taken concurrently with Social Work 441.) (1)
Prerequisites: Social Work 341 and senior standing.
A major in sociology requires a minimum of 11 units, including:

- SOCI 101 Introduction to Sociology
- SOCI 250 Social Theory
- SOCI 351 Research Methods
- SOCI 352 Data Analysis
- SOCI 453 Seminar

Six additional units in sociology, at least two of which must be at or above the 300 level.

Sociology 416 (Community Internship) may not be used to satisfy the 300/400 level requirement.

Social Work 241 (Introduction to Social Welfare) and Social Work 341 (Social Work Practicum) may be used to satisfy two units of the elective requirement for those with a concentration in social work.

Sociology 101 or permission of the instructor is the minimal prerequisite to all other sociology courses, with the exception of Sociology 102. Sociology 101 and one 200-level sociology course are the minimal prerequisites to Social Theory and to all 300- and 400-level sociology courses. Students majoring in sociology are encouraged to take Sociology 250 in the sophomore year. Sociology 351 and 352 are strongly recommended for the junior year, prior to enrolling in Sociology 453 in the senior year.

Majors are encouraged to take at least one course in each of the other social sciences in fulfilling Centers of Distinction and elective requirements, and especially for those anticipating graduate study, to take Statistics 101 as one of the mathematics Centers of Distinction requirements.

**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 seven one-unit courses listed below:

- SOCI 351 Research Methods
- SOCI 352 Data Analysis
- CPSC 101 Introduction to Computers

**Minor in Sociology**

A minor in sociology requires six units in Sociology, including: Sociology 101; Sociology 250 or 351; and four units of sociology electives of which at least two units must be at the 300 or 400 level. SOCI 416 (Community Internship) may not be used to satisfy the 300/400 level requirement.

**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.

**102 Anthropology**

An introduction to cultural anthropology with an emphasis on the description and analysis of the variations in customs, habits, values, and social organization of primitive and non-Western societies. (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.

(Cross-listed with 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.

**226 Sociology of the Family**

An analysis of the contemporary American family with comparisons from other cultures. Topics include choice of marriage partner, family life cycle, marital and parent-child relationships, and alternative life styles. (1)

Lecture: 3 hrs/wk.
227 Medical Sociology
An analysis of cultural, social, and social-psychological factors affecting health status and the response to disease; the distribution of disease in society; the cost and utilization of medical services; the relationship between physicians and patients; and problems in the medical care system. (1)
Lecture: 3 hrs/wk.

229 Sociology of Gender
An introduction to a critical approach to examining the social construction of gender. Topics include perspectives on gender inequality and the role of social institutions such as family, economy, media, etc. in creating the experience of gender in society. (1)
Lecture: 3 hrs/wk.

234 Social Problems
A survey of major social movements that define social conditions as problematic. Emphasis on the theories, stages, and types of movements as well as the relationship between social problems and movements. (1)
Lecture: 3 hrs/wk.

235 Social Psychology
A study of the influence of people on each other’s behavior, including attitude change and social interaction. (1)
Lecture: 3 hrs/wk.

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.

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.

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.

239 Aging and Society
An examination of the aging process, both for individuals and the nation, as it influences and is influenced by the social context. Topics include socialization, economics, health, social relations, housing, retirement, institutionalization, and policy. (1)
Lecture: 3 hrs/wk.

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.
(Cross-listed with Social Work 241.)

250 Social Theory
An examination of the ideas and important contributions of the major sociological theorists to the discipline of sociology. (1)
Lecture: 3 hrs/wk.
Prerequisites: Sociology 101 and one 200-level sociology course.

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)
Lecture: 3 hrs/wk.

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.

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.

327 Sociology of Religion
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.

334 Criminology
An analysis of the nature, types, and distribution of criminal behaviors with a focus on crimes against persons and property, organized crime, and white-collar crime. Programs for crime prevention, punishment, and rehabilitation are examined. (1)
Lecture: 3 hrs/wk.
335 Population and Society
An analysis of size, composition, and distribution of human populations. Social consequences and policy implications of population dynamics are emphasized for the U.S., selected other countries, and the world. (1)
Lecture: 3 hrs/wk.

336 Work and Occupations
An examination of the contemporary work structure, corporate culture, and occupational ethnographies. Topics include work values, occupational socialization, professionalism, bureaucratization, and conflict and change in the workplace. (1)
Lecture: 3 hrs/wk.

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.
Prerequisite: Environmental Science 200 or Sociology 101 and one 200-level Sociology course.

351 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 or co-requisite: Sociology 250.

352 Data Analysis
An examination of the basic skills involved in the analysis of social research data, including an introduction to the computer. (1)
Lecture: 3 hrs/wk.
Prerequisite: Sociology 351.

405, 406, 407 Independent Study and Research
A supervised research project or extensive literature review. (1/2, 1, 1/2)
Prerequisite: 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 post-industrial and post modern perspectives. Media ethics, privacy controversies, and policy implications are also considered. (1)
Lecture: 3 hrs/wk.

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 250.

433 Survey Research and Analysis
An introduction to the design and analysis of survey research. Emphasis is placed on data analysis and interpretation. (1)
Lecture: 3 hrs/wk.
Prerequisite: Sociology 351.

453 Seminar
A capstone course for the sociology major that includes an in-depth review and analysis of major themes within sociology. (1)
Prerequisite: Sociology 352.

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

Professor Talbot; Associate Professors Kalinoski, Ruiz; Assistant Professor Flores-Silva; Teaching Associate Myers; Part-time Senior Lecturer Alami; Part-time Lecturers Gos, Wise; Visiting Instructor Rosenbloom

The major in Spanish is designed to provide breadth and give students flexible options as liberal art graduates. These include graduate studies in language or literature, professional schools, teaching, and career skills.

A major in Spanish consists of the completion of at least 11 units above the 205 level in this language. A major must be enrolled in at least two one-unit courses 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 take Spanish 301, 302, 311 or 312 or 313 or 315, 321, 322, 323, 402, an additional 400-level course, and three elective units to be chosen from advanced Spanish courses, History 272 or Political Science 225, and Linguistics 320. It is recommended that students take two 300-level units taught in Spanish before 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 301 will be waived as a requirement and will not count toward the major; another upper-level course unit must be substituted for Spanish 301. 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 Language 341 as an elective. Students planning to teach may satisfy their training in methods through Language 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 301 and 302
- Spanish 312 or 313 or 315

One elective unit to be selected from Spanish courses numbered 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.

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.

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 205 level, 201-202 or the equivalent is a prerequisite.)

The following are taught in Spanish:

301 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 202 or equivalent.

302 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.

311 Civilization and Culture: Spain
The civilization and cultural development of Spain. (1)
Lecture: 3 hrs/wk.
Prerequisite: Spanish 202 or equivalent.

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 202 or equivalent.

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: Completion of Intermediate Spanish or the equivalent.
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 202 or equivalent.

321 Introduction to Literature I: Spain
Spanish literature from its beginnings to 1700. (1)
Lecture: 3 hrs/wk.
Prerequisite: Spanish 301, 302, or permission.

322 Introduction to Literature II: Spain
Representative works of Spanish literature from 1700 to the present. (1)
Lecture: 3 hrs/wk.
Prerequisite: Spanish 301, 302, or permission.

323 Introduction to Literature III: 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 301, 302, 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 301, 302, or permission.

350 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 301, 302, or permission.

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 301, 302, or permission.

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)
Lecture: 3 hrs/wk.
Prerequisite: Spanish 301, 302, 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)
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 321 or 322 or 323 or permission.

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 321 or 322 or 323 or permission.

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 321 or 322 or 323 or permission.

480 Advanced Studies in Hispanic Life and Culture
A course designed to cover broad central themes of Hispanic 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. (1)
Lecture: 3 hrs/wk.
Prerequisite: Spanish 321 or 322 or 323 or permission.

481, 482 Seminar
Reading and discussion in the Hispanic language, literature, and culture. By permission of the instructor. (%, %)
Lecture: 1 hr/wk. for each.

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, 1/2)
STATISTICS

Professors Ergle, Spielman; Teaching Associates J. Minton, Staniunas

No major is offered in Statistics.

101 Introductory
Frequency distributions, computation of averages and measures of dispersion, probability distributions, elements of sampling, correlation, prediction, tests of hypotheses. (This course may be used for credit toward the General Education requirements in mathematics.) (1)
Lecture: 3 hrs/wk.
(May not enroll in Statistics 101 if Statistics 202 has been completed.)

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 Statistics 101 if Statistics 202 has been completed.)

301 Statistical Methods
Descriptive statistics, sampling procedures, simulation, estimation of parameters, tests of hypotheses, non-parametric methods, regression, and correlation. (1)
Lecture: 3 hrs/wk.
Prerequisite: Statistics 202.
(Offers in 2003-2004 and alternate years.)

401 Mathematical Statistics I
Probability, discrete and continuous distributions, moments and moment-generating functions, sampling theory, and estimation. (1)
Lecture: 3 hrs/wk.
Prerequisites: Mathematics 222 and Statistics 202.
(Offers in 2002-2003 and alternate years.)

402 Mathematical Statistics II
Decision theory, sampling distributions, tests of hypotheses, non-parametric tests, multivariate normal distribution, regression theory, analysis of variance. (1)
Lecture: 3 hrs/wk.
Prerequisite: Statistics 401.
(Offers in 2002-2003 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.
(Offers in 2003-2004 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. (½, 1, ½)

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)

THEATRE ARTS

Professor Partin; Associate Professor Warren; Teaching Associate Arthur; Part-time Lecturer Gleiner

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, 354, or appropriate 399), one unit of Independent Study/Internship, Theatre Workshop (one one-quarter unit workshop may be Pass/Fail; three one-quarter unit workshops are taken for a grade). In addition to the nine units above, a theatre major must include one of the following three areas of concentration:

Performance: TART 111 (Voice and Diction), a second unit of acting (TART 211 or TART 212) and 450 (Directing);
Design: TART 225 (Scene Design), TART 325 (Lighting Design), and one of the following courses in visual arts: ART 240 (Art History I), ART 245 (Art History II), ART 110 (Two-Dimensional Design), ART 120 (Basic Drawing), or ART 130 (Three-Dimensional Design); or
Dramaturgy: Two additional units of Dramatic Literature and TART 320 (Playwriting).

Minor in Dramaturgy
A minor in Dramaturgy requires six and one-half units, to include TART 150, TART 315, TART 316, TART 350, one unit of Dramatic Literature (332, 354, 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: TART 125, TART 211, TART 212, or TART 320.
Minor in Theatre Performance
A minor in theatre performance requires six and one-half units, including TART 111, TART 150, TART 211, TART 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: TART 350, TART 399 (appropriate to the minor), TART 315, TART 316, or TART 450.

Minor in Theatrical Design
A minor in theatrical design requires six and one-half units, including TART 125, TART 150, TART 225, TART 325, 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 110, ART 120, ART 130, ART 240, ART 245, TART 315, or TART 316.

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. Must be taken Pass/Fail. 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 Oral Interpretation
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.
(Cross-listed with Communications 210.)

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.
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.
Recommended 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.
Recommended 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)

322 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 230 and 240.

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.

354 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.
(Same as English 344) (1)
Lecture: 3 hrs/wk.
Prerequisites: Theatre Arts 150 or ENG 230 and 250.

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)
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, 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.

411 Television Production
The study and practice of television production, including experience in local stations. (1)
Lecture-Laboratory: 6 hrs/wk.
Prerequisite: Permission of the instructor or the Fine Arts Chairperson.

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. (½, 1, ½)

THEOLOGY

Professors Hinlicky, Wisnefske; Associate Professors Maclean, McDermott, Zorn; Part-time Lecturers Brumberg, Gunsten, Lee

The Theology 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 Theology requires the completion of 12 units (at least one of which must be non-Christian*) These include:

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<thead>
<tr>
<th>Surveys (none required, and only one may count toward the major)</th>
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<tbody>
<tr>
<td>RELG 102 Christian Faith and Life</td>
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<td>RELG 103* The Jewish Tradition</td>
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<td>RELG 104* The World of Islam</td>
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<td>RELG 105 Socrates, Jesus, and the Buddha</td>
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<td>RELG 130* Living Religions of the World</td>
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<td>PHIL 101 Philosophical Inquiry</td>
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<tr>
<th>Scripture (at least two)</th>
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<tr>
<td>RELG 111 Hebrew Scriptures</td>
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<td>RELG 112 New Testament</td>
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<tr>
<td>RELG 215 The Life and Teachings of Jesus</td>
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<td>RELG 216 The Life and Teaching of Paul</td>
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<td>RELG 217* Topics in Israelite and Jewish Religion</td>
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<th>History (at least two)</th>
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<tr>
<td>RELG 210 The Development of Christianity</td>
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<tr>
<td>RELG 211* Religions of the Hellenistic World</td>
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<td>RELG 212 The Reformation (cross-listed with HIST 231)</td>
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<td>RELG 214 Religion in America</td>
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<td>RELG 246 The Holocaust (cross-listed with HIST 246)</td>
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<td>RELG 250 New Religions in America</td>
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<tr>
<td>RELG 220 Christian Ethics</td>
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<tr>
<td>RELG 230 Introduction to the Theology of Martin Luther</td>
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<td>RELG 270 Explorations in Religion and Society</td>
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<td>RELG 280 History of Christian Thought</td>
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<th>Advanced (at least two)</th>
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<tr>
<td>RELG 312 Topics in New Testament and Early Christianity</td>
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<tr>
<td>RELG 317 Systematic Theology</td>
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<td>RELG 320 The Theology of Jonathan Edwards</td>
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<td>RELG 330 Christianity and the World Religions</td>
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<th>Philosophy (at least two)</th>
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<tr>
<td>PHIL 213* Religions and Philosophies of India</td>
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<td>or</td>
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<td>PHIL 218* Religions and Philosophies of China</td>
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<td>PHIL 251 Early Western Philosophy</td>
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<td>PHIL 252 Modern Western Philosophy</td>
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<td>PHIL 260 Selected Topics in Philosophy</td>
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<td>PHIL 265 American Philosophy</td>
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<td>PHIL 310 Kant’s Critical Philosophy</td>
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<td>PHIL 321 Philosophy of Religion</td>
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<td>PHIL 330 Nietzsche and Heidegger on Nihilism</td>
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<th>Senior Thesis (one unit)</th>
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<td>410, 411, 412 (½, 1, ½) or</td>
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<td>495, 496, 497 (½, 1, ½)</td>
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<td>POLI 342, 343, SOCI 327, or some IL courses may be</td>
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<td>considered electives with approval of the department.</td>
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<th>Minor in Theology</th>
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<tr>
<td>A minor in Theology requires the completion of seven units.</td>
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<td>These include:</td>
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<th>Surveys (none required, and only one may count toward the minor)</th>
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<td>RELG 102, 105, 130; PHIL 101, 251, 252</td>
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<tr>
<td>RELG 111, 112, 215, 216, 217</td>
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<tr>
<td>History and Theology (at least two)</td>
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<tr>
<td>RELG 210, 211, 212, 214, 220, 230, 246, 250, 270, 280</td>
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<th>Advanced (at least one)</th>
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<tr>
<td>RELG 312, 317, 320, 330</td>
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| 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, 342, SOCI 327 and some IL courses may be           |
| considered electives with the approval of the Department.    |
CONCENTRATION IN PARISH YOUTH LEADERSHIP

The concentration in Parish Youth Leadership requires seven units:

- RELG 225 The Religious Life of Young Adults
- RELG 416 Internship
- PSYC 101 Introduction to Psychology
- PSYC 211 Adolescent Development
- One of:
  - RELG 102 Christian Faith and Life
  - RELG 317 Systematic Theology
- One of:
  - RELG 111 The Hebrew Scriptures
  - RELG 112 New Testament
- One of:
  - RELG 240 Religious Interpretation of Film
  - RELG 250 New Religions in America
  - RELG 220 Christian Ethics

102 Christian Faith and Life
An examination of the basis 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)
Lecture: 3 hrs/wk.

111 Hebrew Scriptures
An historical and critical study of the Pentateuch, Prophets, and Writings in the Hebrew Scriptures. Particular attention will be given to various ways of interpreting these texts. (1)
Lecture: 3 hrs/wk.

112 New Testament
This course studies the early Christian communities: their literature, their history, their social context, and especially the life choices made by members of those communities. (1)
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.

210 The Development of Christianity
The development of Christianity from the 1st century A.D. through the 15th century A.D. (Religion 210 and History 231 may not both be taken for credit.) (1)
Lecture: 3 hrs/wk.

211 Religions of the Hellenistic World
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)
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 The Life and Teachings of Paul
The life and teachings of the Apostle Paul in the light of his writings and other sources with particular reference to his influence on the early church. (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)
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.

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)
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.

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.

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 111, 112, 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.

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. (½, 1, ½)

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.” (½, 1, ½)
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)
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)
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Men's Lacrosse Coach, Assistant Director of Intramurals

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Staff Nurse

THOMAS H. TURNER, B.A.
Director of Campus Safety

CHERYL WILLEY, M.S.Ed.
Athletic Trainer
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_The mailing address is:

**ROANOKE COLLEGE**
221 College Lane
Salem, Virginia 24153-3794

_The Roanoke College Homepage:_
http://www.roanoke.edu

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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) and at light turn right on Main Street. At the next light turn right on College Avenue where the College will be directly ahead. Turn right on Clay Street and an immediate left on High Street. Roselawn, the Admissions and Financial Aid Office, is located on High Street. Parking is available in the Upper and Lower Olin Hall lots on High Street and Peery Drive.

By Air
The Roanoke Valley Regional Airport is served primarily by USAir, United Express, and Delta Commuter Airlines. Persons wishing to fly into Roanoke will find flights available from such cities as Atlanta, Baltimore, Boston, Charlotte, Chicago, New York, Pittsburgh, Washington DC, 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 or 540-343-7885 for information.

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From northern New England, take I-91 south to I-84 west at Hartford, CT to I-81 south near Scranton, PA.
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ELIZABETH CAMPUS

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