Ursinus College does not discriminate on grounds of race, color, national origin, sex, age or disability in the administration of any of its educational programs or activities or with respect to employment. Inquiries should be directed to President John Strassburger, 504 Coordinator and Title IX Coordinator, Corson Hall, (610) 489-4111.

Ursinus College complies fully with the Family Educational Rights and Privacy Act of 1974. The guidelines adopted by the College and a copy of the Act are available for inspection in the Academic Affairs Office during regular business hours.

The College reserves the right, through its established procedures, to modify the requirements for admission and graduation; to change the arrangement or content of courses, the texts and other materials used, the tuition and other fees; to alter any regulation affecting the student body; to refuse admission or readmission to any student at any time, or to require the withdrawal of any student at any time, should it be deemed in the interest of the College or of the student.
Communications with Ursinus College

Communications with the College should be addressed to the appropriate administrative officer.

Academic and Faculty Affairs
Judith T. Levy, Vice President for Academic Affairs and Dean of the College

Academic Standing of Students and Requests for Transcripts
Barbara Boris, Registrar

Admission
Richard DiFeliciantonio, Director of Admissions and Enrollment
e-mail address: ADMISSIONS@URSINUS.EDU

Alumni Affairs
Mary Ellen DeWane, Director of Alumni Affairs and Campus Events

Career Planning and Placement
Carla M. Rinde, Director of Career Planning and Placement

Communications and Public Relations
Sally H. Widman, Director of College Communications

Continuing Education
Jan Lange, Dean of Continuing Education and Associate Dean of the College

Financial Aid and Student Employment
Suzanne Sparrow, Financial Aid Officer

General College Matters
John Strassburger, President

Gifts to the College
Hudson B. Scattergood, Vice President for College Relations

Payment of Bills
Christina Mahoney, Controller

Student Life
Deborah Nolan, Dean of Students

Summer School
Jan Lange, Dean of Continuing Education and Associate Dean of the College

Correspondence should be directed to the appropriate administrative officer. The mailing address is Ursinus College, P.O. Box 1000, Collegeville, Pennsylvania 19426-1000.

The College telephone number is (610) 409-3000. The FAX number is (610) 489-0627. The Ursinus College Homepage on the World Wide Web is accessible at http://www.ursinus.edu

Visitors to the College are welcome. Student guides are available when the College is in session. The Office of Admissions is located in Corson Hall. To assure a satisfactory visit, applicants for admission should call or write for an appointment.

Directions and maps to Collegeville are found in the back of the catalog.
The mission of Ursinus College is to enable students to become independent, responsible, and thoughtful individuals through a program of liberal education. That education prepares them to live creatively and usefully, and to provide leadership for their society in an interdependent world.
This is Ursinus

The College in Brief

Ursinus College is an independent, four-year liberal arts college with a tradition of academic excellence, from its founding in 1869 to its recent approval by the national Council of Phi Beta Kappa for a campus chapter.

Ursinus enrolls an average of 1,150 full-time students, about equally divided between men and women. Over 90 percent of them live in College residence halls; the others commute from the surrounding area. Because of its scale, the College combines an informal and friendly social atmosphere with a personal but challenging style of teaching.

All students take the liberal studies curriculum, designed to equip them with the skills and knowledge of a broad general education and to give them an in-depth experience in an academic discipline. Students also have an opportunity to take minor concentrations in areas outside their major discipline, to allow for career options or for greater intellectual breadth.

The full-time teaching faculty of Ursinus have prepared in prestigious graduate schools of the United States and Europe. Acting as mentors to students, they encourage a collaborative style of learning in preparing students for professional pursuits beyond Ursinus.

Three out of four Ursinus students enter graduate and professional schools. Many become leaders in their fields as well as in civic and cultural life. By setting standards for students in both academic and extracurricular life, the College enables them to interweave their professional aspirations with a sense of service to society.
Ursinus College is part of the richly varied higher educational community of the greater Philadelphia region. Its 150-acre campus in suburban Montgomery County is just 30 miles from Center City. The small-town ambience of Collegeville contrasts with busy Philadelphia and the huge corporate and retail complex 10 miles away at Valley Forge/King of Prussia, and with the biotechnology research concentration adjacent to Collegeville.

The History of the College
The beginning of educational work on what is now the campus of Ursinus College dates back to the construction some two centuries ago of a log schoolhouse. In 1848 Freeland Seminary was opened on an adjacent tract. In 1867, members of the German Reformed Church laid plans to establish a college which they chose to name for the distinguished 16th-century scholar, Zacharias Ursinus of the University of Heidelberg, Germany. On Feb. 5, 1869, the College was granted a charter by the Legislature of Pennsylvania. The buildings of Freeland Seminary were acquired, and instruction began on Sept. 6, 1870. Women were first admitted to the College in 1881.

College Principles and Traditions
Ursinus College is independent of church control, but along with a distinguished group of national liberal arts colleges, Ursinus is voluntarily related to the United Church of Christ Council for Higher Education.

This association affirms a broad and open religious tradition, intellectual development, and high ethical standards. The College community is composed of persons of many religious persuasions, in the search for an understanding of peace, justice and the need for human cooperation.

Educational Mission
The mission of Ursinus College is to enable students to become independent, responsible and thoughtful individuals through a program of liberal education. That education prepares them to live creatively and usefully and to provide leadership for society in an interdependent world.

The College seeks students of varied backgrounds who actively search for meaning and purpose in their lives. It nurtures a sense of community by engaging students and faculty in an unfinished conversation about liberal learning—how it is grounded in the fundamentals of human experience, broadens the mind, enhances compassion, and prepares us for a life of service.

Liberal education is provided through an academic program that empowers the intellect, awakens moral sensitivity, and challenges
students to improve society. Students gain intellectual curiosity, the capacity to think analytically, critically, and creatively, and the skill to express thoughts with logic, clarity, and grace. Further, they develop a deepened sense of human history and an understanding of who they are as persons, what they should do as citizens, and how they best can appreciate the diversity and ambiguity of contemporary experience.

The faculty is the cornerstone of our academic program. Faculty members are dedicated to teaching and learning and set high standards for themselves and for students. They choose to be active scholars because they are involved teachers, transmitting their enthusiasm for learning to their students.

The faculty joins with the professional staff in an educational program that extends outside of the classroom. As a predominantly residential community, the College fosters a shared life and provides an opportunity for the comprehensive personal development of all students. By taking active part in the varied programs of the campus, students have the opportunity to develop their intellectual, creative and physical talents, and to strengthen their personal values in the context of the principles and traditions of Ursinus.

The College adapts this mission of liberal education for full-time residential students to the special circumstances and program needs of part-time, non-resident students who enroll in the Ursinus College Continuing Education program. By serving nearby communities through this program, the College plays a responsible part in the life of its region and shares its educational resources more widely.

Cultural Environment
Students have the advantages of living in a small town, yet have easy access to the rich cultural opportunities available in nearby Philadelphia and in New York City. The College is the home of the Philip and Muriel Berman Museum of Art, which offers a variety of exhibitions and events for the campus community. An important outdoor sculpture collection enhances the living and academic environment. In addition, students can see plays and operas, hear some of the greatest symphonic music in the world, visit museums and historical sites, and observe the urban scene at its liveliest.

Located only a few miles from Valley Forge, Ursinus is in the heart of a region that is rich in historical tradition. In Colonial days, this region was a center for the cultural and political development of America. Today, it is also the center of a nationally important complex of high-technology corporations and one of the largest shopping malls in America.
Accreditation
Ursinus is a member of the Association of American Colleges and is on the approved list of the Middle States Association of Secondary Schools and Colleges, the American Association of University Women, the American Chemical Society, and has been given program approval by the Department of Education of the Commonwealth of Pennsylvania for the certification of teachers.
Ursinus gives great emphasis to the quality of student life for both resident and commuting students. Our objective is to help each student grow in independence and responsibility and cultivate a sense of service. Students are encouraged to take an active role in the life of the campus community. They have many opportunities to contribute to group decisions, to practice leadership, to sort out their own priorities and make personal choices. As a part of the regular campus planning process, policies affecting student life are under continuous review with the goal of furthering the educational effectiveness of residence hall life, social activities, counseling and advising.

The student life program is administered by the Dean of Students Office. It includes offices dealing with career services, counseling, health services, wellness education, security, multicultural services, student activities, leadership development, residential life and foreign student services.

Students at Ursinus share the freedom of inquiry and the respect for the individual, which are at the heart of a good liberal education. They also share the responsibility for maintaining the educational climate needed for learning and for personal growth. The College expects that when students decide to enroll they will abide by all the rules of the College.

**Wismer Center**
Wismer Center is a major social center on campus, providing many services and activities. It includes a main dining facility and a snack bar, a game room, several lounges, and a large multipurpose room. The large lower lounge is a focal point of student social life.

**Religious Life**
Ursinus College maintains its relationship with the United Church of Christ and encourages its students to explore and develop their spiritual life as part of a liberal arts education. In response to a heritage that recognizes diversity of expression and freedom of worship, no student is ever denied admission to the College because of sect or creed.

In addition to courses offered through the department of philosophy and religion, Ursinus College offers a variety of worship services on campus.
The chaplain is the coordinator of campus religious life and serves as a counselor to those in need. The chaplain’s office sponsors ecumenical services and activities during the academic year and coordinates the activities of the four campus religious organizations (Fellowship of Christian Athletes, Hillel, Ursinus Christian Fellowship, and the Newman Society). Informal Protestant worship services and Roman Catholic Mass are held weekly on campus. Jewish students are encouraged to attend one of the nearby synagogues. They have the opportunity through Hillel to participate in activities on campus and with the Jewish student community in the greater Delaware Valley.

The Unity House is available to the Ursinus community for groups to explore the diverse cultures, including religions, which comprise the Ursinus family.

Women and men considering the possibility of careers within their churches or synagogues are assisted in their preparation by the guidance of the chaplain and various resources on campus.

Counseling
With the goal of promoting emotional well-being for members of the Ursinus Community, the Counseling Office assists students in addressing relationship problems, mediation-roommate problems as well as improving study skills and anxiety-stress reduction. Counseling services are coordinated through the Wellness Center.

Wellness Services
The Wellness Center staff coordinates the education of students in preventative health, general wellness issues, and assists those students requiring regular medications or needing treatment for illness or injury. Students having medical emergencies are transported by local ambulance to nearby hospitals. 24-hour, non-emergency medical care is coordinated through the Wellness Center and is available at on-campus or off-campus locations. Students requiring regular medication, such as allergy injections, may arrange to receive these through the Wellness Center.

Security
Located in the Reimert Residential Complex, the Department of Security provides 24-hour service, seven days a week. The staff consists of a director, five full-time officers, four part-time and 40 student security officers. An escort service is available to all students, and the service is provided between academic buildings and residences by security officers. All security personnel participate in in-service training programs and regularly receive updated security material. While Ursinus College security officers cannot make arrests, they are all acquainted with

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criminal laws and procedures. Officers have received training in basic first aid and C.P.R., and emergency medical assistance is available through the local ambulance corps. The department cooperates with the state police agency and maintains a relationship with the Collegeville Police Department, which assists as needed. Crimes involving violence, major property loss or any felony are reported by the Security Department to the Police Department. All crime statistics are reported on forms and in the format required by the Pennsylvania State Police and the Federal Crime Awareness and Campus Security Act of 1990.

Room and Meals
All resident students have the option to choose a 14 or 19 meal plan. These plans entitle students to an unlimited selection in the main dining room or to cash equivalency meals in Zack’s, the campus snack bar. Commuter and evening students may purchase blocks of meals. All students, faculty and staff may also purchase Zack Power, which is a declining-balance debit system for use in either the main dining room or Zack’s.

The main dining room features a wide variety of foods, including Super Salad and Pasta Bar, Grill Works, To Your Health, Hometown Cafe, Great Rotations Rotisserie and Deli Works. Both the main dining room and Zack’s are located in Wismer Center.

Athletics
Ursinus College recognizes the physical, social, and moral benefits derived from athletic activity and offers a well-balanced sports program, open to all at both the intramural and intercollegiate levels. Athletics is but one part of the total educational program of the College. Athletes are students and students are athletes. The athletics program exists only because the academic program exists, supporting it and not detracting from it. Furthermore, the athletics program supports and reflects the mission of the College: to enable students to become independent, responsible and thoughtful individuals through a program of liberal education.

The College believes that participation in athletics should be a constructive experience in which the physical welfare of the student athlete is paramount. Consequently, the primary emphasis of the athletics program is placed on enhancing the personal development of the student athlete, through a broad-based program of spirited competition. However, the College recognizes that winning is also a legitimate objective, when achieved in an ethical manner consistent with the College’s stated mission; we strive for excellence in the classroom and we strive for excellence on the field of athletic endeavor.
Equal opportunities for participation in athletics are available for all men and women. Intercollegiate competition takes place in 10 sports for men and 11 sports for women. An extensive program of intramural sports is in operation; students are encouraged to participate.

Coaches are educators and coaching is a specialized form of teaching student athletes the values of training, strategy, hard work, team work, vigorous competition, and winning and losing — all part of a sound educational experience. In addition, courtesy and sportsmanship in participants and spectators alike are fostered.

Student athletes at Ursinus College are subject to the same policies, procedures, and criteria as non-athletes, with respect to such matters as admissions standards, administration of financial aid, credit-granting, progress toward and achievement of academic degrees, and transfer. Ursinus operates in full compliance with the rules and regulations of the National Collegiate Athletic Association, the Centennial Conference, the Patriot League, and other athletic conferences to which the College belongs.

Men’s intercollegiate competition takes place in football, basketball, soccer, wrestling, swimming, cross country, golf, baseball, track and tennis. For women students, the College supports intercollegiate competition in field hockey, basketball, softball, tennis, swimming, lacrosse, gymnastics, volleyball, cross country and track. The intramural program provides additional recreational opportunities for men and women in touch football, basketball, volleyball, soccer, softball, water polo, tennis, aerobics, and table tennis. Club programs for men and women are sponsored in lacrosse, sailing, bicycling, bicycle racing, dancing, fishing, cheerleading, skiing and racquetball.

The College is a member of the Centennial Conference; the Pennsylvania Association for Intercollegiate Athletics for Women; the Eastern Association for Intercollegiate Athletics for Women; the Eastern Collegiate Athletics Conference; and the National Collegiate Athletic Association. These organizations govern the conduct of Intercollegiate Athletics at member institutions.

Organizations

Ursinus students find opportunities for education and recreation through a large number of organizations. The primary source of funding for student activities is the student activities fee. The proceeds from this fee are allocated by the Activities Fee Allocation Committee (AFAC). Constitutions for all student organizations are approved by the Ursinus Student Government Association (USGA) and the faculty. Members of the faculty and administration serve these groups as advisers, and the
Student Activities Office serves as a resource. The USGA has the principal responsibility for student participation in the planning and administration of student life. USGA members are elected by the student body and are advised by a member of the Office of Student Activities. The Campus Activities Board (CAB) is the primary source of campus-wide programming, providing movies, dances, concerts, trips and entertainment, as well as opportunities for leadership development.

Other organizations for students include the Brownback-Anders Pre-Medical Society, the Beardwood Chemical Society, the Biology Club, Student Chapter of the Association for Computing Machinery, the Communications Club, the Economics and Business Club, the German Club, the Haines-Barnard Pre-Legal Society, the International Relations Club, the Japanese Club, *Le Cercle Français*, Musser Hall International Organization, the G. Leslie Omwake Education Club, the Political Science Club, the Psychology Club, the Society of Physics Students, the Mathematical Association of America, Spanish Club, and the Forensic Society.

Religious organizations include the Fellowship of Christian Athletes, Hillel, Ursinus Christian Fellowship, and the Newman Society.

Special-interest organizations include College Republicans, GALA, Multicultural Student Union, Organization of Commuting Students, Students and Teachers Against Rape, Students Right-to-Life, Student Voice for Choice; Tri-Lambda, Life-Long Learners; Ursinus Students Environmental Action Coalition, and the Young Democrats.

Membership in pro-Theatre, the drama organization, is available to students from all disciplines. Two or more productions, ranging from the classics to the avant-garde, are offered during the year.

Music plays a large part in the life of Ursinus. Faculty members in the music department advise the student musical organizations and provide professional musical leadership. The Meistersingers offer concerts on and off campus, including a one-week tour each year. The Ursinus College Choir offerings are varied, from modern to major classical works. Its annual presentation of Handel’s *Messiah* is a highlight of the musical year on campus. The music department also provides opportunities for instrumental performance—the College Concert Band, Jazz Ensemble, and Pep Band.

A variety of intellectual, cultural and social programs enhances students’ appreciation of the arts and awareness of contemporary issues interest. The Arts and Lecture Series brings notable artists and speakers to the campus community. In addition, film series, theatrical productions, and
concerts are sponsored by campus organizations and academic departments.

There are numerous social organizations on the Ursinus campus. The fraternities are Alpha Chi Sigma, a local service fraternity; Alpha Phi Epsilon; Alpha Phi Omega, a national service fraternity; Beta Sigma Lambda; Chi Rho Psi; Delta Mu Sigma; Delta Pi Sigma; Pi Omega Delta; Sigma Rho Lambda and Zeta Chi. The sororities are Alpha Sigma Nu, a local service sorority; Kappa Delta Kappa; Omega Chi; Phi Alpha Psi, Tau Sigma Gamma, and Upsilon Phi Delta. Additionally, there is a fraternity with an emphasis on service and academics, Sigma Chi Delta. Representatives of these organizations serve on the Inter-Sorority and Inter-Fraternity councils.

Student Communications

The Grizzly is the Ursinus newspaper. It is managed by a publications committee consisting of student and faculty representatives and is edited and written entirely by the students. The editor-in-chief, the associate editors, and the business manager are elected by the committee on the basis of merit, and the staff is selected by the editors on the same basis.

The Lantern serves as an outlet for those interested in creative writing and art. It is written and edited by an all-student staff under the direction of a faculty adviser. It is published twice a year.

The Ruby, the Ursinus yearbook, is published by an all-student staff each year. It is a volume presenting an intimate pictorial account of the year’s activities, not only of the senior class, but of the entire College.

WVOU, the campus radio station, presents an eclectic blend of music, from classical to rock, and campus and world news.

The Campus Setting

The highly attractive campus provides an ideal setting for liberal education. The campus is organized around a graceful plaza and walkway linking three buildings central to the College’s mission—Myrin Library, F.W. Olin Hall, and Wismer Center. Together, these buildings represent the interaction of academic and social life at the College. The plaza also provides numerous places where students and faculty can pause for discussions with one another.

The notable buildings on campus include the following:

F.W. Olin Hall, dedicated in 1990 and funded entirely by a grant from the F.W. Olin Foundation, contains a 300-seat lecture hall, a 63-seat tiered classroom, a 42-seat tiered classroom, two microcomputer laboratories, an international learning center, the College’s writing
center, seven traditional classrooms and four seminar rooms. It houses faculty offices for the departments of English, history, modern languages, classics, and philosophy and religion.

Wismer Center provides dining facilities, social lounges, an office complex for student activities, the snack bar and a multipurpose lounge. The building is named for the late Ralph F. Wismer, '05, former treasurer of the College and member of the Board of Directors.

Myrin Library, constructed in 1970 and totally renovated in 1988, houses more than 200,000 volumes, 155,000 microforms, 17,500 audiovisual materials, and 900 current periodical subscriptions. It is a selective depository for U.S. Government documents and Pennsylvania documents. The library is connected to the Online Computer Library Center’s bibliographic network, providing worldwide access to more than 6,500 research collections and over 21 million volumes. Students can take advantage of the Interlibrary Delivery Service of Pennsylvania to obtain library materials from other academic libraries throughout the region.

There are study facilities for 500 persons in carrels, seminar rooms, private study rooms and lounges. During the academic year, the library is open 110 hours per week.

During an 1988 renovation, an automated bibliographic system replaced the old card catalog. Through terminals located in the library and in other buildings on campus, individuals can access the online catalog as well as various other databases and Internet resources.

The library also houses the College’s Academic Computing Center, the Pennsylvania Folklife Archives, and the Ursinusiana Collection of College-related artifacts.

Bomberger Memorial Hall houses classrooms and the offices of the economics and business administration, anthropology and sociology, career services, education, and music departments. Bomberger Auditorium contains the Heefner Memorial Organ, a three-manual 62-rank organ dedicated in 1986, the gift of Mrs. Lydia V. Heefner in memory of her husband, Russell E. Heefner. Bomberger Hall is a Romanesque structure built in 1891 of Pennsylvania blue marble. The building is named for the first President of Ursinus, Dr. J. H. A. Bomberger, and was made possible by the benefactions of Robert Patterson. In November 1981, the restored tower of Bomberger Hall was named Wagner Tower in honor of James E. Wagner, D.D., former president of the Evangelical & Reformed Church (1953-1961), co-president of the United Church of Christ (1957-1961), and vice president of Ursinus College (1962-1968).
Thomas Hall (formerly Life Science Building) was opened for use in September 1970 and completely renovated in 1991. It is named in honor of the Thomas family, long-time faithful friends of the College. It is the home of the biology and psychology departments and the following endowed laboratories: Levi Jay Hammond Laboratory of Comparative Anatomy, the W. Wayne Babcock Laboratory of General Biology, the Anna Heinly Schellhammer Laboratory, and the Parlee Laboratory.

Pfahler Hall of Science houses classrooms and laboratories for work in chemistry, physics, mathematics, computer science, and geology. Built in 1932, and named in honor of Dr. George E. Pfahler, famed radiologist, Pfahler Hall will be expanded and upgraded in phases beginning this year. The first phase will add a new wing, chemistry laboratories, a library, a computer resource center and classrooms.

The Philip and Muriel Berman Museum of Art was dedicated in 1989 and is located in the original Alumni Memorial Library, built in 1921. The museum offers exhibitions and related programming focusing on an outstanding permanent collection and a variety of touring exhibitions from around the country.

The Berman Museum provides a valuable cultural resource for the campus community and the surrounding region. The facilities include a multipurpose space for seminars, lectures, and films; a non-circulating art library focusing on important texts related to the collections and specific art reference volumes; three separate exhibition galleries; and complete storage and work areas. The museum library has an on-line public access catalog terminal linked to Myrin Library to facilitate research.

Corson Hall, named in honor of the late Philip L. Corson, a member of the Board of Directors, and his wife, the late Helen Payson Corson, was dedicated in 1970. Located near the main entrance to the campus, it houses the Admissions Office and other administrative offices.

The D.L. Helfferich Hall of Health and Physical Education and The William Elliott Pool were dedicated in 1972 in honor, respectively, of the ninth president of Ursinus College and Dr. William Elliott, Board member, neighbor and benefactor of the College. The physical education complex serves both men and women with three full-size basketball courts; locker rooms and team rooms; wrestling room; weight room; dance studio; classrooms; a regulation collegiate-sized swimming pool; and squash and handball courts. A sculpture of a bear (Ursinus’ mascot), chiseled by Charles Sherman from the trunk of a 250-year-old sycamore tree which stood next to the end zone of the football field until 1983, is located in the lobby.
Helfferich Hall is supplemented by the Utility Gym, located nearby and used for both athletic and social events.

*Ritter Center for the Dramatic Arts* opened in 1980 and houses a 260-seat theater with flexible staging, a television studio, and various auxiliary rooms. It is named in honor of Dr. Rolland A. Ritter, LL.D., ‘60, and his wife, Lullis M. Ritter. It occupies the former Thompson-Gay Gymnasium, built in 1927. The memory of the namesakes is specially preserved in the building. They were Robert W. Thompson, ‘12, and George H. Gay, ‘13, noted Ursinus athletes, both of whom died in their senior year of college.

The College Bookstore is located adjacent to Ritter Center.

Outdoor athletic and recreational facilities include Price Field, Patterson Field, Evans Field and Snell Field. Price Field, which includes the baseball diamond, soccer field, and football practice fields, is named for Dr. John Price, ‘05, one of the great athletes in Ursinus history.

Football games and track meets take place at Patterson Field, named for the College’s first benefactor, Robert Patterson. The Effie Brant Evans Hockey Field, refurbished last summer, is located at the east end of campus near Stauffer Hall. The Eleanor Frost Snell Softball Field, named after an outstanding Ursinus educator and coach, is a relatively new addition to the athletic field complex.

Eight tennis courts and an outdoor shuffleboard court are located behind Helfferich Hall.

Other structures include *Super House*, a residence on Main Street opposite the campus, bequeathed to the College by the late Henry W. Super, D.D., LL.D., vice president and professor of mathematics, 1870-1891, and president, 1892-1893; *Sprankle Hall*, on the east campus fronting Fifth Avenue, used for the Wellness Center and student housing; the *Eger Gateway*, erected at the entrance of the walk leading from Main Street to Myrin Library and provided through the generosity of George P. Eger of Reading, Pa.; the statue of Zacharias Ursinus in front of Bomberger Hall, donated by Philip and Muriel Berman and sculpted by Michael Price; and the *Marjorie T. Elliott House*, 785 Main Street, former home of the late Dr. Edward Platte, College physician. The house is named in memory of the late wife of William Elliott, a member of the Board of Directors.

The campus setting is enhanced by the presence of a collection of outdoor sculpture by noted artists, provided through the generosity of Philip and Muriel Berman. A printed guide is available, complete with information about the sculptures and artists.
Computer Facilities
The Ursinus College academic computing facilities consist of a Micro-VAX computer, several interconnected personal computer networks, and various microcomputers located around campus. The main academic computer facility is located in the Myrin Library where students may use the VAX or one of the three microcomputer labs exclusively for student use. The Myrin Library microcomputer labs contain 30 PC-compatibles and 20 Apple Macintosh computers and are open seven days a week for a total of 110 hours. Additionally, there are two labs in F.W. Olin Hall containing a total of 50 PC-compatibles available for student use and classroom instruction. Ten microcomputers are available for student use 24 hours a day in Paisley Hall.

The Academic Micro-VAX 3195 is a Digital Equipment Corporation 32-bit supermicrocomputer capable of handling a total of 96 simultaneous users. This system is exclusively for student and faculty use (the administrative and library systems run on separate Micro-VAX computers.) The Micro-VAX 3195 has 80 megabytes of memory and 4.5 gigabytes of disk storage. Micro-VAX users may choose between the VMS and UNIX Shell operating systems. BASIC, C, COBOL, FORTRAN and Pascal programming languages are available to students and faculty. The Micro-VAX software library includes SAS statistical software, KERMIT, and the computer algebra system REDUCE. Communication with students and faculty at other institutions is possible through the Internet. Academic Computing maintains dial-up facilities so that connection to the VAX is possible 24 hours a day, seven days a week.

The Ursinus College VAX computers and microcomputer labs are connected via Ethernet. The software contained on the microcomputer networks include several word processors, Lotus 1-2-3, dBase IV, MS Office, C, Pascal, MINITAB, SPSS, Derive, Maple and BASIC. Most microcomputers are connected to laser printers. The Myrin Library On-Line Catalog is also accessible via the networked microcomputers and dial-up facilities.

Residence Halls
The College offers living accommodations for 1,070 students. Twenty-nine residence halls and houses provide a variety of sizes and programming styles. Approximately half of the resident students live in traditional residence halls, and half reside in residence houses, many of which are part of the College’s Residential Village. Residence halls range in size from five to 250 residents. Quiet halls, which implement a 24-hour quiet policy, are offered to men and women in both houses and large residence halls.
Several residence halls offer the campus special programming opportunities. Some programs are long-term and some change annually. Programs have included biology research, a coffee house, international awareness, and wellness education. Students apply to live in these programming houses.

**Shipments of Belongings**
The College will accept United Parcel shipments at the mail room between the hours of 8 A.M. and 4:00 P.M., Monday through Friday, one week prior to opening date providing:
1. the mail room has been notified in writing when to expect shipment and from whom;
2. the shipment arrives prepaid.
The College can accept no responsibility for the condition of the shipment.

**Career Services**
The Career Services Office assists students in relating their educational plans to future opportunities and in acquiring life skills essential for successful career planning and creative job hunting. The Career Services Office will assist students in designing their college experience to insure the best possible preparation for the personal and occupational objectives they have chosen.

Through individual career counseling and special programs, students are given the opportunity for self assessment and career exploration. Seminars and workshops on topics related to career planning, such as “Resume Writing,” “Interviewing Skills,” and “Job Search Strategies” are open to all students. SIGI plus, a computer-assisted guidance program, is available to students interested in learning about the career decision process.

A career resources library offers information about corporations, government agencies, nonprofit organizations, specific career fields, internships, graduate schools, and general career planning and job hunting resources. Also available is a set of job announcements listing full-time, part-time, and summer opportunities.

Representatives from business, government, and nonprofit organizations visit the Ursinus campus throughout the academic year to interview seniors for positions available after graduation. A number of students participate in this on-campus recruiting program.

The *Grizzly Network* is made up of alumni and parents who have volunteered to share their experiences and advice with interested
students. They provide exciting contacts in all career areas including business, law, communications, medicine, and the like.

*Exploring Careers* is a monthly newsletter advertising career seminars, graduate testing dates, special events, employment trends and visits by recruiters.

*Job Flash* is a biweekly publication listing part-time, full-time, and summer job vacancies.
Admission

Ursinus College is a member of the National Association of College Admission Counselors and subscribes to its Statement of Principles of Good Practice.

The first step in seeking admission to Ursinus College is to file an application. The Admissions Office will supply forms for this purpose to all who request them. Each completed application must be accompanied by a $30 application fee. The applicant must be recommended by two teachers and the high school guidance office, and must request that an official transcript of his or her secondary school records be sent to the College by the secondary institution. Further, it is the responsibility of the candidate to make arrangements to take the Scholastic Assessment Test I of the College Board and to have the official test results sent to the Director of Admissions. A personal interview is strongly recommended; the arrangements are the responsibility of the candidate.

The deadline for applying under the Regular Decision plan is Feb. 15. Candidates for Early Decision must apply by Jan. 15 (See below for a description of the Early Decision plan).

Tests
Candidates for admission to the freshman class are required to take the Scholastic Assessment Test. Although not required, Achievement/SAT II tests are strongly recommended, especially in English composition with essay and mathematics. Full information concerning the dates of the administration of these tests can be obtained from the high school guidance office or by writing directly to the College Board, P.O. Box 592, Princeton, N.J. 08540. The College Board number for Ursinus College is 2931.

In addition to the SAT I, foreign applicants must take the Test of English as a Foreign Language (TOEFL) if their first language is not English.

Requirements
A candidate for admission to the freshman class must be a graduate of a secondary school.

If the applicant is a graduate of a four-year high school, he or she must offer for admission at least 16 units, which are to be distributed as follows:
Basic Academic Credits (11 units)
English, Four years, Four units
Elementary Mathematics (Algebra and either Geometry or PreCalculus), Three Units
Science, One Unit
Social Studies, One Unit
Foreign Language, Two Units in One Language

Additional Academic Credits (at least 2½ Units)
Calculus
Advanced Mathematics
Statistics
Computer Science
Solid Geometry
Trigonometry
Science
Social Studies
Foreign Language

Electives (Maximum of 3½ Units)
Not more than one unit will be granted for any single elective
Music (history or appreciation)
Art (history or appreciation)
Studio Art

Candidates graduated from a three-year high school should offer at least 12 units, which must include the basic credits above. Not more than one unit may be presented from the group designated as electives.

Ursinus College accepts the International Baccalaureate degree and grants advanced standing. IB students are encouraged to contact the Admissions Office for details regarding advanced standing.

Applicants whose preparation does not coincide precisely with the foregoing outline may, in exceptional cases, be admitted to the College if, in the judgment of the Admissions Office, they are qualified to do college work satisfactorily.

Early Decision
The College offers a program of early decision to those students for whom Ursinus College is their first choice. The procedure for making application under the Early Decision plan is the same as outlined above. However, candidates applying under the Early Decision plan have chosen Ursinus College as their first choice and, if admitted, their commitment to attend is binding. Admitted candidates must withdraw all other college applications. Admission decisions are deferred until Regular Decision for
those students applying and not admitted under the Early Decision plan. The deadline for applying under the Early Decision plan is Jan. 15. Candidates will be notified of the admission decision by Feb. 1.

Special Program for High School Students and Senior Citizens
Ursinus College has established a program for area high school students and senior citizens (defined as 62 years of age or older). Further information may be obtained from the Admissions Office.

Junior Admission
A limited number of outstanding high school juniors who have completed all or nearly all requirements for graduation from high school may be considered for admission. Such students will be considered only upon the strong recommendation of the guidance counselor and with the assurance that the student will receive his or her high school diploma either before or upon successful completion of the freshman year in college.

Outstanding juniors may apply for admission in the late spring or during the summer preceding the senior year. An applicant must be recommended by two teachers and the high school guidance office, and must request that an official transcript of his or her secondary school records from ninth through eleventh grades be sent to the College by the secondary institution. He or she also should have junior year SAT I results sent to the Director of Admissions. We strongly recommend that all candidates take Achievement/SAT II tests. The personal interview is strongly recommended, the arrangements for which are the responsibility of the candidate.

International Students
Ursinus College is a member of the European Council of International Studies (ECIS). The College encourages foreign students who have successfully completed their secondary school studies to apply for admission. International students are asked to complete a preliminary application, and must take the Test of English as a Foreign Language (TOEFL) if their first language is not English. International applicants are strongly encouraged to take the SAT I.

The College accepts the International Baccalaureate degree and grants advanced standing. IB students are encouraged to contact the Admissions Office for details regarding advanced standing.

International students work with the Admissions Office and the Registrar to complete the necessary paperwork for obtaining student visas. Need-based Financial Aid is available for international students.
Engineering Program
Arrangements have been made with the engineering schools of the University of Pennsylvania and the University of Southern California, to which a student may apply for transfer after completing three years of prescribed work toward a B.A. at Ursinus College.

Ursinus College will grant the B.A. after a student has satisfied the requirements for that degree. The engineering school will grant the engineering degree on satisfactory completion of the fifth year.

Candidates for the engineering program must present four years of entrance credit in mathematics. Their background in foreign language should be such that they are capable of entering the second year of language in college. If not so prepared, they may make up the deficiency in foreign language in summer school.

Placement in Foreign Languages
Students who wish to take the same foreign language in college that they took in high school must take the language placement test given by the modern languages department at Ursinus. The result of this test, combined with their high school language experience, will determine the students’ language placement at Ursinus.

Advanced Placement
Students who wish to be considered for advanced courses upon admission may submit the results of the advanced placement examinations given by the College Board. If the scores are satisfactory, the student may be advanced beyond the basic course and credit may be given toward the degree. Certain courses offer no advanced placement; therefore, it is suggested that a candidate consult the admissions office if any question arises. After acceptance for degree standing, a student who wishes to receive transfer credits must receive written permission from the dean of the College or the vice president for enrollment to take a course at another college.

College Level Examination Program (CLEP)
Another means by which incoming students may earn advanced credit is through the College Level Examination Program (CLEP). These are examinations offered by the College Board as a means by which colleges may offer credit to students who have completed the equivalent of specified college courses through special experience or study. Ursinus College offers credit only in the subject examinations and not in the general examinations. The examinations are given at centers throughout the country. Interested applicants should write for a CLEP Bulletin of Information for Candidates to the Program Director, College Level Examination Program, Box 1821, Princeton, N.J. 08540.
Readmission (see page 57.)

Special Students
A limited number of applicants who are not candidates for degrees may be admitted as special students, provided they have satisfactory preparation for the college courses they wish to pursue. Special students who reside at the College must register for at least 12 hours of work in each semester. They are subject to the same regulations as other students.

Transfer Students
To transfer to Ursinus College, an applicant must request that each institution he or she has attended, including the secondary school, send to the vice president for enrollment a transcript of his or her academic record. In addition, recommendations from two professors and a letter of personal clearance from the dean of students is required if the applicant has been a full-time student during the preceding year. It will be helpful if the candidate sends a catalog of the college he or she has been attending, marked to indicate the courses taken. Credit will be given for courses for which we offer a reasonable equivalent and in which a grade of C (2.00) or better has been earned.

A maximum of 64 hours of work taken elsewhere can be credited to students transferring to Ursinus College.

Part-Time Students
Commuting students who are candidates for a degree and who wish to pursue fewer than 12 hours of work are classified as part-time students.

Students with Disabilities
Ursinus College is in compliance with the American Disabilities Act. Prospective students with disabilities should advise the admissions office. A counselor will discuss educational opportunities and note what reasonable accommodations might be required to succeed at the College.

Notification of Admission
When candidates for admission are notified of acceptance by the College, each must make an advance payment of $300 in accordance with the provisions of the letter of acceptance. This payment is credited to the bill for the first term. The payment is non-refundable and forfeited if the candidate does not enroll.

Summer Day Courses and Programs
Ursinus College summer day courses and programs are open to candidates who may be classified in the categories below, upon approval of the College:
1. College graduates (two-year and four-year).
2. Degree candidates (bachelor and associate), including recent high school graduates accepted as freshmen by Ursinus or other accredited schools. Applicants from other institutions should secure written permission from their respective institutions indicating they will be given transfer credit for successful work in the courses selected.
3. Evening Division students at Ursinus or elsewhere, with a high school diploma and with a minimum of 15 semester hours of college work successfully completed (equivalent of C/2.00 average).
4. High school students who have just completed their junior year, on recommendation of their counselors and of the Committee on Admissions. High school graduates 62 years or older, on recommendation of the Committee on Admissions. These two groups pay only half of the regular tuition.

Applications of those whose qualifications do not fit the above categories must be acted upon by the Committee on Admissions.

Admission to the Summer School does not carry with it an assurance of transfer to degree standing at Ursinus College. For information and application forms, address the Dean of Continuing Education, Summer School, Ursinus College, P.O. Box 1000, Collegeville, Pa., 19426-1000.

Continuing Education
Ursinus extends its outreach to nontraditional students by means of a continuing education program that is in harmony with the College’s mission of liberal education, informed by the educational programs for traditional students, and responsive to the special needs of the people in its region. Continuing education consists of evening degree programs, opportunities for adult students to complete degrees in the day, noncredit seminars and workshops, St. Joseph’s University MS and MBA at Ursinus, and evening summer sessions.

The Ursinus College evening programs were begun in 1952. They make both single college courses and entire degree programs available to adults who are unable to pursue academic goals during traditional daytime hours. Evening programs enable a student to complete 64 semester hours of coursework leading to an associate’s degree; complete 128 semester hours of coursework leading to a bachelor’s degree; complete coursework leading to a post-baccalaureate Certificate of Professional Studies or secondary teacher certification; select individual courses of special interest; complete coursework leading to a Master of Business Administration degree or a Master of Science in Health Administration in conjunction with St. Joseph’s University.
The College provides counseling, support services, individualized academic advising and special tuition grants for qualified adult students seeking admission to both day and evening programs.

For information about credit and noncredit Continuing Education Programs, address the Office of Continuing Education, Ursinus College, P.O. Box 1000, Collegeville, Pa., 19426-1000.

Special note is made of the following continuing education programs:

**Degree Programs:** Degree programs offered entirely through evening courses are Associate in Business Administration and Bachelor of Business Administration, with majors in accounting, computer science, finance, human resources, management and marketing; Bachelor of Arts, with majors in communication arts, English, history, and philosophy and religion; and Bachelor of Science, with a major in psychology.

Evening students have the option of pursuing the Bachelor of Arts or Science degree in other major areas, but these programs involve taking some day courses.

**Post-Baccalaureate Certificates of Professional Studies:** The Certificate of Professional Studies is offered to college graduates holding the bachelor’s degree or higher, who want to add specific organizational/business knowledge and skills to their existing knowledge base. The certificate is available entirely at night in accounting, computer science, finance, human resources, management, and marketing areas of concentration, and consists of 32 to 35 hours of coursework, comprising a full new major at the bachelor’s level.

**Secondary Teacher Certification:** Adults who have earned a bachelor’s degree, or who are currently completing requirements for a bachelor’s degree, may take secondary education courses as a minor concentration or as electives in their program. These students may also obtain secondary teacher certification through a traditional program of study, which includes a student-teaching experience to be scheduled during day hours.

**Adults Taking Day Courses:** Adults who meet the College entrance requirements may be admitted into day courses on either a part-time or full-time basis.

**St. Joseph’s University Master of Business Administration Program at Ursinus:** Ursinus College has contracted with St. Joseph’s University, Philadelphia, Pa., to provide instruction and support services for preparatory and graduate courses held on the Ursinus campus and leading to the MBA degree or the MS in Health Administration conferred by St. Joseph’s.
Noncredit Programs: Varied noncredit workshops and seminars provide opportunities for members of the community at large to participate in evening and Saturday programs of short duration. These courses develop and enhance academic, professional and personal skills.

The College provides counseling, support services, individualized academic advising and special tuition grants for qualified adult students seeking admission to both day and evening programs.

For information about credit and noncredit Continuing Education Programs, contact the Office of Continuing Education at Ursinus College, P.O. Box 1000, Collegeville, Pa., 19426-1000.
Financial Information

Tuition, Board, Fees

Student Charges Per Year

Basic student charges at Ursinus College include tuition, room and board for resident students, activities fee, and a health and wellness fee. To help meet these charges, a student is advised to consult the Financial Aid Office, which administers a comprehensive program of aid from Federal, state, Ursinus College and other private sources. Approximately 75 percent of all students receive some form of assistance in paying tuition and fees.

For 1997-98, the following rates apply for full-time students: tuition, $17,170; room and board, $5,690; activities fee, $135; wellness fee, $75. Special and part-time students are charged at the rate of $615, day program; and $690, evening program, per semester hour. If registered for 12 or more hours, students will be charged full tuition.

Payments are made as follows: new students, $300 advance payment as requested and $250 reserve deposit as indicated on the bill. All students pay half of the annual charges in August less credit for advance payment, and one-half of the activities and wellness fees. The second half of the charges are due in January.

Billings are presented semianually and are due for payment no later than the date indicated on the billing. A graduated late payment fee is charged each account which remains unpaid at the end of the seventh week of each semester. See the “Explanation of Charges” section.

When the student is a recipient of an Ursinus College scholarship award, credit for one-half the value of the annual award will be applied to the account for each semester bill.

For those who prefer to pay college costs on a monthly basis, the College offers a 12-month, no interest payment plan managed by Key Education Resources, formerly Knight College Resource Group in Boston. Additionally, for those who prefer longer-term extended payments, the College makes available loan plans through Key Education Resources and a loan plan through CoreStates Bank. Information about these programs is available through the Business Office.
While the College makes available the payment plans noted, parents and students may choose from any available programs that provide for payment to the College as indicated on the student bill. For additional information, see page 39. *These arrangements should be made early enough to assure payment of bills no later than the date indicated on the billing.*

**Explanation of Charges**

*Application Fee:* A fee of $30 is paid by the candidate at the time the application is filed. This fee is not refundable and is not applied toward the student’s bill.

*Advance Payment:* Upon acceptance by the College, applicants must make an advance payment of $300 by May 1. This payment is credited on the bill for the first semester. If they fail to complete matriculation, this payment is forfeited.

*Fee for Tuition:* Covers classroom instruction, use of libraries, gymnasium, and campus facilities. Room and board charges cover use of residence hall room and the meal plan for the period that classes are in session.

The College reserves the right to make reasonable adjustments in these fees at the beginning of any term to cover unforeseen costs.

*Activities Fee:* Is charged to all full-time students, and to all special and part-time students enrolled for nine or more semester hours of credit. This fee supports the programs of the Campus Activities Board, and activities approved by the Activities Fee Allocation Committee. It also covers subscription to *The Grizzly*, admission without further charge to all Ursinus athletic contests at the College, and use of College athletic facilities as scheduled.

*Wellness Fee:* Covers routine physician and nursing services, both on campus and in a local physician’s office. In addition, a Wellness Coordinator assists students in obtaining medical care and in learning about health and wellness.

*Student Medical Insurance Option:* An optional insurance plan is available to extend accident coverage through the summer months and purchase sickness medical expense and major medical expense benefits for a full 12 months. Students may also enroll their dependents in the optional accident and sickness plans. This insurance is mandatory for all foreign students.

*Science Major Fee:* A fee of $125 per semester is charged all students majoring in biology, chemistry, physics, pre-engineering and freshmen who are enrolled in undesignated natural science.
Reserve Deposit: A deposit of $250 is required from all full-time, and all special and part-time students enrolled for nine or more semester hours of credit. The deposit is required to defray expenses incurred through damage to College property or through fines. This is included in the bill for the first term.

In order to maintain a balance of $250 per student in the reserve deposit account at all times, students will be billed for each fine or instance of damage as it occurs. Any balance remaining will be refunded when the student graduates or withdraws from the College.

Student Teaching: An additional fee of $125 is required of each student engaged in student teaching, supervised field experience, or the teaching internship. This is payable upon presentation of the bill.

Private Instruction in Music Fee: A fee of $180 per semester is charged for students taking private music instruction. The fee is for 14 half-hour lessons per semester.

Transcript Fee: A charge of $2.00 is made for each transcript of a student’s record after the first. Requests for transcripts should be made to the Office of the Registrar. No grade reports or transcripts will be issued if there is an unpaid balance in a student’s account or if the student is in default on a student loan.

ID Card Fee: No charge is made for the issuance of the first ID card. If the card is lost, a charge of $5.00 will be made for its replacement.

Late Payment Fee: A late payment fee, as determined by the schedule below, will be applied to any balance due at the end of the seventh week of each semester. The amount charged depends upon the size of the outstanding balance.

<table>
<thead>
<tr>
<th>Outstanding Balance</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 500.00 - 1,999.99</td>
<td>$ 50.00</td>
</tr>
<tr>
<td>2,000.00 - 3,999.99</td>
<td>100.00</td>
</tr>
<tr>
<td>4,000.00 - 5,999.99</td>
<td>150.00</td>
</tr>
<tr>
<td>6,000.00 - 7,999.99</td>
<td>200.00</td>
</tr>
<tr>
<td>8,000.00 - 9,999.99</td>
<td>250.00</td>
</tr>
<tr>
<td>10,000.00 or above</td>
<td>300.00</td>
</tr>
</tbody>
</table>

Premedical Credentials Fee: Each premedical student may request that twelve Premedical Committee recommendations be submitted to medical schools at no charge. Recommendations in excess of twelve will be processed at a cost of $10 each.

Regulations

Bills for student fees are issued approximately 30 days before the beginning of each term. A student’s bill must be settled no later than the date indicated on the statement.
No student who is indebted to the College or to any of its departments or agencies will be permitted to register at the beginning of any term, and all items due the College from a candidate for graduation must be paid before the candidate may be presented for a degree.

Delinquent accounts will be placed for collection, and the College will add collection costs to the delinquent amount. The total amount will then be payable in full.

Students who are absent from College because of sickness and retain their place in class pay student fees in full during their absence, except that when the absence is continuous over a period exceeding four weeks, resident students are allowed a pro rata rebate of the dining hall charges for each full week of absence.

Changes in marital status should be reported to the College immediately. Address changes must be reported to the College as soon as possible.

A student who voluntarily withdraws from the College must notify the dean of the College in writing and settle all bills within 30 days or be liable to dishonorable dismissal.

The College reserves the right to exclude at any time students whose conduct or academic standing renders them undesirable members of the College community, and in such cases the fees due or paid in advance to the College will be refunded according to the policy shown below. Other regulations and procedures of vital concern to students are contained in the pamphlets, Ursinus College Student Handbook and Financial Aid Brochure.

Refund Policy

Upon a student’s dismissal or withdrawal from the College prior to the first day of class, the student will receive a full refund of monies paid, less $300.00 to cover application, enrollment and registration charges. Additionally, any student indebtedness to the College or to any of its departments or agencies will be deducted from any remainder due the student. No changes in student charges are made because of changes in enrollment status after the second week of classes.

The Higher Education Amendments of 1992 require the College to communicate to you how refunds are determined for students who receive Title IV aid (PELL, SEOG, Perkins and Stafford Loans). Refunds are computed differently, depending upon whether the student has Title IV financial aid and is attending for the first time or returning to Ursinus. A chart is used to determine the type of refund calculation to be used in each refund circumstance.
After the refund type has been determined, the percentage is selected from this table based on the week of withdrawal:

<table>
<thead>
<tr>
<th>Week #</th>
<th>Pro-rata Refund</th>
<th>Federal Refund</th>
<th>Ursinus Refund*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90%</td>
<td>90%</td>
<td>87.5%</td>
</tr>
<tr>
<td>2</td>
<td>80</td>
<td>50</td>
<td>62.5</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>25</td>
<td>37.5</td>
</tr>
<tr>
<td>4</td>
<td>70</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>5</td>
<td>60</td>
<td>00</td>
<td>12.5</td>
</tr>
<tr>
<td>6</td>
<td>60</td>
<td>00</td>
<td>00</td>
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<tr>
<td>7</td>
<td>50</td>
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<td>00</td>
</tr>
<tr>
<td>8</td>
<td>40</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>9</td>
<td>40</td>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>10</td>
<td>00</td>
<td>00</td>
<td>00</td>
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</tbody>
</table>

*These percentages refer to tuition and fees charges. There is NO refund of amounts paid for dormitory rooms after the first day of classes. The refund for meal plan charges is calculated on a pro-rata basis from the official date of withdrawal or dismissal.

**FIRST TIME STUDENTS:**

In the event of a withdrawal by a first-time student with Title IV aid, Ursinus College provides a pro-rata of not less than that portion of the tuition, fees, room and board, and other charges assessed equal to the portion of the period of enrollment for which the student has been charged that remain on the last day of attendance by the student up to the 60% point of the semester. Ursinus College determines the amount of refund which would result from each of the three calculations shown, compares the results and refunds the largest amount.

**RETURNING STUDENTS:**

For returning students with Title IV aid, Ursinus College determines the amount of refund that would result from the Federal and Ursinus calculations, compares the results and refunds the largest amount.

Examples of refund calculations are available from the Business Office upon request.

To supplement the College’s refund policy, a Tuition Refund Plan is offered through A.W.G. Dewar, Inc. This plan provides for up to 100 percent refund of tuition and room and board charges should the student be forced to withdraw for medical reasons at any time during the semester. Information on the plan and the insurance premium is available through the Business Office.

Date of withdrawal shall be the date on which the student notifies the dean of the College in writing of such action, or the date on which the
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College determines that the student has withdrawn, whichever is earlier. Date of dismissal shall be the date on which the College has notified the student of such action.

In the event that a student participates in the Federal Stafford Loan Program or other Title IV programs, refunds of such funds shall be made promptly, but not more than 30 days after the College receives a loan disbursement or other check, as provided under Federal Regulation ss682.604 and PHEAA Guidelines, Chapter III, Section 3, pages 8 and 9.

SCHOLARSHIPS AND FINANCIAL AID

Student Financial Assistance
The primary mission of the Financial Aid Office at Ursinus is to provide counseling and assistance to those students who would be unable to attend college without such aid. An application for financial aid does not hinder a student’s chance for admission to the College. Awards are made without reference to ethnic origin, religion, sex, handicap or marital status.

The financial aid program assists full-time degree candidates in meeting college costs through institutional grants, scholarships, loans, and employment, as well as aid through state and Federally supported grant and loan programs. (Part-time degree candidates may qualify for Federal Pell Grants, Federal Supplemental Educational Opportunity Grants, Federal Perkins Loans, state grants, Federal Work Study, Charlotte Newcombe Scholarships, or Federal Stafford Loans.) Ursinus College is pleased to offer merit scholarships and also recognizes merit awards given by outside organizations.

Financial aid may be offered in a single form or in combinations of scholarships, grants, loans, and employment. The financial aid package is based on demonstrated need as determined through Federal and Institutional Methodology. Proven academic excellence and leadership abilities may also be considered.

Application Procedure
All students wishing consideration for institutional financial aid must submit a Free Application for Federal Student Aid (FAFSA) and a PROFILE application, with all questions completed, no later than Feb. 15. A student who wants to be considered only for the Federal financial aid programs need only complete the FAFSA (the PROFILE is not required). All late applications will be considered if funds are available. The FAFSA and the student’s individual state application, where applicable, are the only applications required to be filed for state grant consideration. These forms must be filed for each year the student wishes to continue aid.
The Free Application for Federal Student Aid (FAFSA) and the PROFILE registration form can be obtained from secondary school guidance offices or the Ursinus College Financial Aid Office. The Ursinus College Code is 003385 on the FAFSA and 2931 on the PROFILE. If the FAFSA and PROFILE are filed by Feb. 15, freshman and transfer students’ award notices will be released by April 1. Upperclass applicants should obtain the FAFSA by January and submit it by April 1. Upperclass award notices will be sent by early July if all required documentation is received in the Financial Aid Office. The College requires the submission of parent and student Federal income tax forms, W2 forms, and the Institutional Verification Form to be considered for any aid offered by Ursinus College.

An independent (self-supporting) student must file the FAFSA and PROFILE application under the same guidelines as above. All students who enter Ursinus as dependent aid filers will remain dependent for all Ursinus funds for the entire period of enrollment. Independent students are those who are over 24 years of age; orphans or wards of the court; married; veterans; parents of dependent children; graduate students; or those determined as independent by the financial aid officer with appropriate documentation.

All students should realize that financial aid is not automatic and requires formal application for each year that aid is expected. Financial aid normally continues at the same level unless financial need deviates from prior years or Federal regulations change. Full-time attendance is required for all scholarship and need-based institutional aid. Foreign students must submit the Declaration of Finances and Application for Foreign Students, available from the Office of Admissions.

**URSINUS COLLEGE SCHOLARSHIP AND FINANCIAL AID PROGRAMS**

Ursinus College offers an extensive financial aid program designed to recognize the high school achievements of students, while at the same time providing access to students from a wide range of economic backgrounds. That is why Ursinus awards financial aid based both on merit and financial circumstances.

The College’s scholarship, grant, loan, and student employment programs will total nearly $14.5 million for 1996-97. Of the entire student body, approximately 80 percent receive some form of financial aid, whether it be through student employment, loans, college funds, or scholarships. Every student submitting the FAFSA and PROFILE will be considered automatically for all aid programs administered by the College.
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URSINUS COLLEGE SCHOLARSHIPS

As part of the financial aid program at Ursinus, the College awards merit scholarships to recognize those students who by their strong high school performances have demonstrated the potential to make special contributions to our College community.

Merit scholarships are awarded in recognition of achievements which are consistent with the high ideals of the Ursinus educational mission: strong academic achievement and personal qualities which promise the potential to provide leadership and to lead lives of service, acting as worthy role models for others.

_Ursinus Merit Scholarships:_ Ursinus Merit Scholarships are awarded to applicants who have earned the College’s recognition by their academic and extracurricular achievement in high school. Ursinus Merit Scholars are chosen on the basis of their overall high school achievement and their potential to contribute to the College community. To be eligible, candidates must apply for admission to the College and arrange for an admissions interview by February 15. Ursinus Merit Scholars are awarded up to $7,500 annually, renewable for four years if the student maintains a 2.67 yearly GPA and maintains standards of satisfactory academic progress.

_Steinbright Scholarships:_ Ursinus College awards six full-tuition scholarships to applicants who attend high school in Berks, Bucks, Chester, Delaware, Montgomery, or Philadelphia counties in Pennsylvania. The College will award one Steinbright Scholarship in each county. Steinbright Scholarships are awarded to those outstanding students who through superior high school achievements demonstrate the greatest potential of fulfilling the Ursinus mission by becoming independent, thoughtful and inquiring adults, who will live creatively and usefully and serve society by providing leadership. To be eligible, candidates must apply for admission to the College and arrange for an admissions interview by February 15. The College will invite finalists to campus in March for individual Scholarship Committee interviews. Steinbright Scholarships are renewable for four years if the student maintains a 3.20 yearly GPA and maintains standards of satisfactory academic progress.

URSINUS COLLEGE FINANCIAL AID PROGRAMS

_Ursinus College Fund:_ Funds awarded by the College do not have to be repaid. Recipients must have demonstrated financial need each year, as determined by the results of the FAFSA and the PROFILE application, and are expected to remain in good academic and social standing.
Charlotte Newcombe Scholarships: This scholarship fund is supported by the Charlotte Newcombe Foundation in Princeton, N.J. Women, age 25 or above, may apply for this scholarship if one half of the required coursework towards a bachelor’s degree is completed and financial need is demonstrated. Those pursuing teaching certificates and Certificates of Professional Studies will also be considered. Selections are made by a scholarship committee.

W.W. Smith Scholar Grants and Prizes: The W.W. Smith Charitable Trust of Newtown Square, Pa., funds a program of $2,000 Scholar Grants to “needy and worthy, full-time” students. In addition, two top senior Scholar Grant winners receive $5,000 W.W. Smith Prizes. Selections are made by a Scholarship Committee.

Gulf Oil Loan Program: The Gulf Oil Student Loan Fund is available to junior and senior students as an emergency fund. Recipients must be degree candidates and maintain a satisfactory academic average. The loans are at low interest with deferred repayment benefits, similar to the Federal Perkins Loan program.

Student Employment: The College provides students with the opportunity to earn part of their college expenses through campus employment in more than 500 positions on campus. Federal Work-Study (FWS) will be offered to eligible applicants to meet any remaining need after grant, scholarship, and loan assistance has been utilized. Priority in job placement is given to students assigned to FWS. Students not eligible for FWS will be placed on the college payroll if possible. Working just seven hours a week, a student can expect to earn about $950 during the academic year. Examples of the positions available are: dining hall helper; lab assistants in biology and chemistry; library assistants; house managers in the Student Center; bookstore clerks; departmental typists; administrative clerks, and maintenance helpers. Students are employed on a contractual basis and should contact the Financial Aid Office upon arriving on campus in the fall. Students are permitted to work a maximum of 20 hours per week. Off-campus positions are made available by private employers, and are advertised by the Career Planning and Placement Office.

Federal and State Programs

Federal Pell Grant: This is a federal grant made available to students with exceptional financial need. Application is made by filing the Free Application for Federal Student Aid (FAFSA). Four to six weeks after filing, students receive a Student Aid Report (SAR) with a family contribution indicated. The maximum Federal Pell Grant for 1996-97 was $2,470.
Federal Supplemental Educational Opportunity Grants (FSEOG): These grants are federally funded and must be designated by the College to students with substantial financial need; primarily to those receiving Federal Pell Grant assistance. The application is made by filing the FAFSA. The average grant is $500. The FSEOG Program is subject to change according to government regulations. Those filing the Free Application for Federal Student Aid (FAFSA) with Ursinus will be considered for this program.

Federal Perkins Loan: This federally funded student loan is offered to applicants with high financial need, especially when state or Federal Pell Grant assistance is negligible. Loans from $500 to $3,000 are awarded with the total not to exceed $15,000 for the four years of undergraduate study. The interest rate is 5 percent. Federal Perkins Loans must be paid within 10 years after a student graduates or leaves the College for other reasons, with repayment beginning nine months after this established date. If a student continues with graduate study, repayment is deferred as long as half-time enrollment is maintained. Upon graduation, repayment begins on a normal schedule. The Federal Perkins Loan program is subject to changing Federal regulations.

State Grant Programs: Many states have a separate state grant application or a State Specific Financial Aid Form. Students must contact their state agency to determine what forms need to be filed. In Pennsylvania, students must file an FAFSA by May 1. The maximum Pennsylvania state grant is currently $2,632, but is subject to change by the Pennsylvania legislature.

Federal Subsidized Stafford Loans: Freshmen may borrow up to $2,625, sophomores may borrow up to $3,500, and juniors and seniors may borrow up to $5,500 annually for loans made on or after July 1, 1993. The interest rate is variable, based on 91-Day T-Bill plus 3.10 percent, capped at 8.25 percent (for loans with the first disbursement made to new borrowers on or after July 1, 1994). Repayment of principle and interest is deferred until six months after graduation or withdrawal. Applications are available at participating banks and other lending institutions and must be renewed annually. These loans are based on financial need for all families. The loan amounts, interest rates, and eligibility rules are subject to change by the Federal government.

Federal Unsubsidized Stafford Loans: Unsubsidized Stafford Loans are effective for loans made for periods of enrollment beginning on or after Oct. 1, 1992. The same terms and conditions exist as Stafford Loans, except that the borrower is responsible for interest that accrues while he/she is in school. This program is open to students who may not qualify
for subsidized Stafford Loans or may qualify for only partially subsidized Stafford Loans.

Sources of Assistance Not Based on Need

Parent Loan for Undergraduate Students Program (PLUS): This is a federally supported program of loans to parents of dependent undergraduate students. The maximum amount a parent may borrow for one student in an academic year is the cost of attendance less any financial aid (for loans made on or after July 1, 1993). Please note that repayment is required to begin within 60 days after the loan disbursement, unless otherwise indicated by the lender. The annual interest rate is variable, based on 52-week T-Bill plus 3.10 percent, capped at 9 percent (for loans with the first disbursement made on or after July 1, 1994). Parents who have no adverse credit history are eligible for PLUS loans. Loan applications are available at local banks and other lending institutions.

Tuition Exchange: Ursinus College is a member of the Tuition Exchange Program. Requests for tuition remission by children of faculty members of member institutions will be considered upon their application. Those who receive aid through the Tuition Exchange Program are not eligible for additional Ursinus College grants.

Other Sources of Aid: In addition to the programs described above, students should investigate other grant and scholarship programs sponsored by a variety of private organizations, including business corporations, foundations, civic clubs, and the like. High school guidance counselors usually maintain lists of the local organizations sponsoring awards for college-bound students.

Satisfactory Progress

Colleges and universities are required to establish minimum standards of satisfactory academic progress for students receiving financial aid. Ursinus College has established these standards:

All students enrolled at Ursinus College are subject to the academic standards of the College. Qualitatively, the Committee on Academic Standing receives the record each semester of every student with an average below 2.00. Corrective action is recommended in each case and progress is closely monitored. If the Committee sees no immediate and significant improvement, the student is determined to have failed to make satisfactory academic progress and is dismissed from the College by the faculty. All financial aid the student is receiving is terminated.

However, if a student completing the sophomore or junior year has below the required yearly grade average and is permitted to remain at Ursinus,
his or her Ursinus funds may be reduced by 10 percent for the following academic year. Whenever possible, this reduction in funds may be compensated for by an increase in loan or campus job earnings.

Students receiving financial aid must also meet the following **quantitative requirements:**

A **full-time student** (12-18 credits per semester) must successfully complete 24 semester hours of academic work in the two preceding semesters (summer academic work, where applicable, may be included) in order to be eligible to continue receiving federal, state, and institutional financial assistance.

A **three-quarter time student** (9-11 credits per semester) must successfully complete 18 semester hours of academic work in the two preceding semesters (summer academic work, where applicable, may be included) in order to be eligible to continue receiving federal, state, and institutional financial aid.

A **half-time student** (6-8 credits per semester) must successfully complete 12 semester hours of academic work in the two preceding semesters (summer academic work, where applicable, may be included) in order to be eligible to continue receiving Federal, state, and institutional financial aid.

**In each classification, course incompletions, course withdrawals, and noncredit remedial courses are not counted.** If a student must repeat a course for major or degree requirements, it may be counted toward the annual required credits and grade average.

A full-time student is expected to complete all degree requirements within a maximum of 10 semesters and summer school (5 years).

**Satisfactory Academic Progress Chart**

<table>
<thead>
<tr>
<th>Academic Years Completed</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<th>10</th>
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<tbody>
<tr>
<td><strong>Number of Credits</strong></td>
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<tr>
<td><strong>Successfully Completed</strong></td>
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<tr>
<td>Full-time</td>
<td>24</td>
<td>48</td>
<td>72</td>
<td>96</td>
<td>120</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>3/4 Time</td>
<td>18</td>
<td>36</td>
<td>54</td>
<td>72</td>
<td>90</td>
<td>108</td>
<td>126</td>
<td>-</td>
<td>-</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>Half-time</td>
<td>12</td>
<td>24</td>
<td>36</td>
<td>48</td>
<td>60</td>
<td>72</td>
<td>84</td>
<td>96</td>
<td>108</td>
<td>120</td>
<td>128</td>
</tr>
</tbody>
</table>

**Special Note:**

The requirement for a bachelor's degree is 128 credits. To graduate in four years, a student must enroll for a minimum of 16 credits per semester. Enrolling for 12 credits (minimum for full-time status) extends graduation one full calendar year. Some financial aid programs have
eight (8) semester limits, making financing of the fifth year possibly quite difficult.

Any student receiving financial aid who does not meet minimum satisfactory academic progress will be notified in writing by the Financial Aid Office.

If financial aid is denied for reason of not meeting the College’s standards of satisfactory academic progress, the student does have the right to appeal, in writing, first to the Financial Aid Officer and secondly to the Scholarship Committee. If the appeal is denied, the student is considered for financial aid only when he or she completes the credits needed for making normal satisfactory academic progress for all the semesters that the student had been receiving financial aid.

This evaluation of a student’s academic standing and progress to determine Federal, state, and institutional financial aid eligibility is made once a year or after two semesters of academic work. Students failing to progress on schedule at the end of each initial semester are placed on probation in order to provide them an early warning.

Both deficiencies in grades or earned credits may be made up by taking summer school classes at Ursinus or courses approved by the Dean’s Office to be taken at another college.

The Ursinus College Financial Aid Brochure, titled “Eleven Things to Think About When Paying for College,” provides detailed information on all programs and is available in the Admissions Office and the Financial Aid Office.
The Ursinus Plan for Liberal Studies

The Educational Mission of Ursinus College

The mission of Ursinus College is to enable students to become independent, responsible and thoughtful individuals through a program of liberal education. That education prepares them to live creatively and usefully, and to provide leadership for their society in an interdependent world.

Liberal education is provided through an academic program that empowers the intellect, awakens moral sensitivity, and challenges students to improve society. Students gain intellectual curiosity, the capacity to think analytically, critically, and creatively, and the skill to express thoughts with logic, clarity, and grace. Further, they develop a deepened sense of human history and an understanding of who they are as persons, what they ought to do as citizens, and how they best can appreciate the diversity and ambiguity of contemporary experience.

Liberal education is more than a set of courses; it requires students to integrate insights of various academic disciplines, and to participate actively in the learning process. It takes place best among students of diverse backgrounds actively searching for meaning and purpose in their lives. In order to help students appreciate the diversity and ambiguity of their world, the College seeks to include issues of race, class, and gender across the curriculum.

The Liberal Studies Curriculum

The liberal studies curriculum is grounded in the assumption that individual human beings have intrinsic value. Individuals, however, live in community with other human beings. The challenge of liberal studies is to create independence of thought and spirit while fostering awareness of community connection and obligation.

To meet this challenge, the Ursinus liberal studies curriculum has three components:

*The Core*, a broad-based common experience to give all students the communications skills, and the scientific, cultural, and historical literacy that are fundamental to a liberally educated person;

*Study in Depth* in one or more of 20 academic majors, to provide the basis for lifelong engagement in intellectual inquiry;

*Explorations*, student-initiated ventures into areas beyond one’s major and core courses, to foster independence, curiosity and diversity.
The Core

The Liberal Studies Seminar introduces first-year students to the intellectual life of the College through small, discussion-based classes that address specific topics or issues. English 100, also a first-year course, is an intensive writing workshop to improve writing skills and prepare the student for the required writing-intensive (W) course in the department of the student’s major.

To sharpen intellectual discipline and promote understanding across cultures, students take two semesters of a foreign language (modern or classical - ESOL 100 may be substituted for students who are eligible). Two courses in mathematics or science increase scientific literacy and awareness of the issues of science as they influence the individual and society. The complex relationship of the individual and society is explored also in two social science courses. Historical consciousness and cross-cultural awareness are promoted through two courses focusing on change across the centuries in the fields of philosophy, literature, or history.

The Core Requirements
- LSS 100 Liberal Studies Seminar
- ENG 100 Composition
- Two courses of study of a foreign language (modern or classical - or ESOL 100 for eligible students)
- Two courses in mathematics or the sciences, one of which must be a laboratory course in the natural sciences, and one a quantitative (Q) course. The laboratory and Q requirements may be fulfilled by the same course.
- Two courses in different social sciences: anthropology, economics, politics, psychology, sociology. Communication Studies 105 (Mass Media and Society) may be selected as one of the courses to fulfill this requirement.
- Two courses from the historical consciousness group: one course from History 101, Philosophy 101, IDS 101 plus one course from History 102, Philosophy 102, IDS 102. The courses need not be in the same department. For most students, the Core will comprise 10 four-credit courses, or 40 credits, representing slightly less than one-third of the 128 credits needed for graduation.

Study in Depth

Through study in depth, students learn the modes of inquiry of an academic discipline, develop the insight to make informed judgments among conflicting methods and interpretations, and acquire the ability to make connections among different disciplines. Study in depth is achieved by the completion of a major.

Majors include at least 32 credit hours in the major department or discipline, at least one writing-intensive (W) course, an oral presentation, and a capstone experience involving students in focused inquiry.
The following majors have been approved by the faculty:

Anthropology and Sociology
Biology
Chemistry
Classics
Communication Studies and Theatre
Computer Science
East Asian Studies
Economics & Business Administration
English
Exercise and Sport
   Science (ESS)
French
German
History
International Relations
Mathematics
Philosophy
Philosophy and Religion
Physics
Politics
Psychology
Spanish

Student-Initiated Majors
Students who complete the freshman year and whose major interests span two or more recognized academic fields, if they have a cumulative B average (3.0 or above), may arrange a specialized major which combines these two fields, such as biophysics, biopsychology, chemical biology, American history and literature, or comparative literature.

In order to set up such a specialized major, the student and the appropriate department heads, in consultation with other department members, must draw up a written statement of all courses and additional major requirements, which may include a comprehensive or an oral examination by members of both departments at the end of the program of studies. This proposed course of studies must then be submitted to the dean of the College, whose approval is needed.

Upon successful completion of the major requirements so specified, the student will graduate in the subject field specified on the program proposal.
Explorations

Because liberal education is a broadening experience, the curriculum allows students the opportunity for exploration and reflection in areas outside of their major. To foster independence and intellectual curiosity, students are required to take 12 credits that are outside the major department and that are not used to fulfill major or core requirements.

Students are especially encouraged to explore creativity and aesthetic awareness through courses in art, music, literature, and theater; to build healthier lives through courses in the exercise and sport science; and to prepare for a lifetime of public speaking challenges through communications studies.

Minors

Students have the opportunity to develop a secondary academic specialty by developing a minor concentration. The following minor concentrations have been approved by the faculty:

- Accounting
- American Studies
- Anthropology
- Art
- Astronomy
- Athletic Training
- Biochemistry
- Biology
- Business Administration
- Chemistry
- Coaching
- Communication Studies
- Computer Science
- Creative Writing
- East Asian Studies
- Economics
- Elementary Education
- English
- Finance
- French
- German
- Greek
- Health
- History
- Human Behavioral Development
- Latin
- Latin American Studies
- Mathematics
- Music
- Neuroscience
- Pennsylvania German Studies
- Philosophy
- Physics
- Politics
- Psychology
- Religion
- Secondary Education
- Sociology
- Spanish
- Statistics
- Theater
- Wellness/Fitness
- Women’s Studies

Students who have interests spanning more than one department may design individual minors in consultation with the chairpersons of the involved departments.
Foreign Language Integration Option
This program allows students to use their language abilities in courses outside the language departments. Faculty members in the disciplines who wish to make their courses available for the foreign language integration option decide, in conjunction with individual students and in consultation with a member of the modern or classical language departments on the amount and type of language work involved. This work typically includes readings from books, newspapers or articles and/or paper writing and it substitutes for English language work.

Requirements for Graduation
The requirements for the degree of Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) are:

(1) the completion of 128 semester hours, and all the courses required by the faculty, including the courses required for a major; and

(2) a GPA of C (2.00) or above for all courses taken at Ursinus College.

To qualify for the degree of Bachelor of Arts or Bachelor of Science, a student must have successfully completed a minimum of 64 semester hours of credit at Ursinus. Half of the semester hours of credits required in the major department must be taken at Ursinus; exceptions may be granted by the dean of the College. A degree from the College requires that a student spend the two semesters of the senior year as a full-time student (this regulation does not apply to students receiving a degree from the Evening Program).

A full-time student may not take fewer than 12 semester hours per semester. The normal load for a term is 16-18 credits. It is recommended that students normally take no more than 16 credits per semester. Students may register for up to 18 credits with the approval of their advisers. They may not register for more than 18 credits in any semester without special permission from the dean of the College. Students carrying fewer than 12 hours are not permitted to remain or to become residents of College residence halls.

All requirements for graduation must be satisfied before the end of the last day of examination week preceding commencement. Each student must bear responsibility for fulfilling the requirements for graduation.

Degrees
Ursinus College confers five degrees: Associate in Business Administration (obtainable through Evening Division only), Associate in Arts (Evening Division only), Bachelor of Arts, Bachelor of Science, and Bachelor of Business Administration (Evening Division only). For
specific requirements of the curricula leading to each of these degrees, see departmental requirements and the catalog of the Evening Division. Degrees are conferred only at commencement and candidates must present themselves in person.

A student in good standing who has earned a minimum of 96 semester hours of credit and who withdraws from the College to enter an accredited graduate or professional school may, with the approval of the faculty, receive a baccalaureate degree from Ursinus after earning any doctoral degree from an accredited institution.

The College may confer the honorary degrees of Doctor of Divinity, Doctor of Humane Letters, Doctor of Pedagogy, Doctor of Science, Doctor of Letters, and Doctor of Laws on persons whose distinguished ability and service have been deemed worthy of such recognition by the faculty and the Board of Directors.

Second Bachelor’s Degrees
We usually recommend against students working toward a second bachelor’s degree. For those who do desire a second degree, the following applies:

Students who hold a bachelor’s degree from another institution may be admitted to degree candidacy at Ursinus as transfer students. The student must satisfy all degree requirements at Ursinus, including completion of a minimum of sixty-four (64) semester hours work at Ursinus.

Students who hold a bachelor’s degree from Ursinus will not be awarded a second degree of the same type (B.A., B.S., or B.B.A.). They may be admitted to candidacy in a second degree area. The student must satisfy all requirements and must complete at least thirty-two (32) additional semester hours beyond what was required for the first degree.

Honors

Dean’s Honor List:
All regular or full-time students achieving an average of 3.33 for a semester are announced at the end of that semester as members of the Dean’s Honor List. It is an Ursinus tradition to publish at the Ursinus Day Academic Convocation the names of those students who have been carried on the Dean’s Honor List for the preceding two semesters.

Commencement: Two commencement honors are assigned: one, the Valedictory, to the person attaining the highest standing in the graduating class; the other, the Salutatory, to the person attaining the next highest standing.
Graduation with Distinction:
Members of the graduating class who have shown great proficiency in their study at Ursinus College may be graduated with distinction if, in the opinion of the faculty, their credentials warrant such honors. These distinctions, Summa Cum Laude, a cumulative average of 3.85 or above, Magna Cum Laude, 3.67 but less than 3.85; and Cum Laude, 3.5 but less than 3.67, are given only for unusual excellence in all subjects pursued by the candidate. Graduation honors will be calculated at the end of the fall term. If as a result of work done in the spring semester a student should merit distinction or a higher distinction, such honors will be awarded ex post facto.

Departmental and Interdepartmental Honors
The goals of the Honors Program at Ursinus College are to encourage academic excellence, to promote original research and independent study, and to reward scholarly achievement. Students with high overall academic standing who have demonstrated an exceptional competence, the capacity for independent, original research and disciplined scholarship may be awarded departmental honors or distinguished honors in the department of their major or minor fields of concentration. Students may also be awarded interdepartmental honors or distinguished honors, in which case at least one department is the department of their major or minor fields of concentration. All these awards are made subject to the following regulations:

1. To be eligible for departmental honors or distinguished honors, students must have (a) a 3.0 cumulative average and an average of 3.3 or higher in all courses taken in the department in which they seek honors, based on the work of six semesters, or an average of 3.5 or higher in the department in which they seek honors, based on the work of the last four semesters. Students pursuing interdepartmental honors must have a 3.3 GPA or higher in each department.

Students who have attended Ursinus less than four semesters must have the same grade averages as in (b), and must obtain approval of the dean of the College. Exceptions may be made by the Academic Standards and Discipline Committee.

2. To be admitted to candidacy for departmental honors or distinguished honors, students must obtain written consent of a faculty member who will serve as the project adviser, have their candidacy certified by the chairperson of the department in which they wish to pursue honors, and have the research/individual project approved by the department.
To be admitted to candidacy for interdepartmental honors or distinguished honors, students must obtain written consent of a faculty project adviser from each department, have their candidacy certified by the chairperson of one of these departments, and have the research/individual projects approved by both departments.

3. Students must complete the two-semester sequence Research/Independent Work 491 and 492. They usually register during the spring registration period of their junior year for the two-semester sequence of Research/Independent Work 491.

Candidates for distinguished honors must work on the project for longer than these two semesters by participating in a summer research project, by earning at least four credits in preparatory Independent Study courses during the junior year, or by completing other equivalent requirements approved by the departments(s). A related research project or internship approved by the department(s) also fulfills this requirement for distinguished honors. By the end of September of the senior year, a candidate for honors or distinguished honors submits a formal proposal including a bibliography and research plan to the department(s) for approval. Near the end of the 491 course, the candidate submits a written status report and makes an oral presentation to the department(s). At that time the department(s) decide whether the student may continue working for distinguished honors, honors or neither.

4. The Honors Project, completed in the research/independent work courses, must demonstrate disciplined, independent and original scholarship or creativity. Distinguished Honors Projects must exhibit exceptional creativity or scholarship. If the candidates receive a passing grade, they will earn credit hours toward graduation, even though their work may not be recommended for honors.

5. An honors committee of at least three faculty members, at least two from the department(s) and at least one from outside the department(s), evaluates the project and an oral presentation, and examines the candidate by early April. This committee is chosen by the department chair(s) in consultation with the adviser(s) and the student, and it submits a written evaluation to the department chairperson(s). Departmental or interdepartmental honors will be awarded on the recommendation of this committee and the department(s), and the approval of the faculty. When the honors committee recommends a candidate for distinguished honors, an outside evaluator assesses the paper and an oral presentation. The oral presentation is followed by an examination by the outside evaluator and the department(s). The outside evaluator is chosen by the department chair(s) after consultation with the adviser(s) and
other departments members. Departmental or interdepartmental distinguished honors will be awarded on the recommendation of the department(s) and the outside evaluator, and the approval of the faculty.

6. Departments specify the date for the candidate to submit a completed thesis. In order that the faculty may consider the awarding of honors or distinguished honors, the candidate must deposit the completed thesis in bound form following the format established by the Myrin Library, the written recommendation of the project adviser, and approval of the department(s) (and the outside evaluator for distinguished honors) in the office of the dean of the College by the Monday of the last full week of classes.

The following students were awarded departmental honors in 1995-96:

Anthropology: Anne-Marie McMahon, "Sociolinguistic Change in Amish Society."

Biology: Amanda Joy Mishizen, "Interactions of the Local Anesthetics Lidocaine and Prilocaine."

Gary Scott Shapiro, "The Induction of IL-1B in Monocytes."

Claire E. Zeberkiewicz, "Interactions of Cocaine with the other Anesthetic Agents, Ethanol and Bupivacaine."

Chemistry: David S. Chrzanowski, "The Flourination of Hydrazones Using Lead Dioxide (PbO2) and HF/Amine Complexes."

Sean Kelley, "The Reaction of Hexafluorothioacetone with Unsaturated Hydrocarbons and Polymers."

Mehran Mehrabi, "Preparation of a New Dirhenium Dicarboxylate of Formula Re2 (02CC6H4OC12H25) 2CL4."

Amy E. Michel, "Synthesis and Swelling Behavior of pH-Sensitive Polymer Gels."

Stephen Randall, "Investigation of the role of Hydrogen Bonding in Cyclodextrin Inclusion Complexes."

Ian Rhile, "The Synthesis and Reactivity of Aryl Aldoketene Timers."

Jennifer Seng, "The Chemistry of Hexafluorothioacetone and Hexafluorothioacetone Dimer."

Corrie Ann Stankiewicz, "Selective Electrolytic Fluorinations in HF/ pyridine."
Denise L. Thomas, "Characterization of a 4-Methoxphenyl-4-allyloxybenzoate Liquid Crystal Stationary Phase for High-Performance Liquid Chromatography."


Classics: Jaymie Kate Burkhart, "A Woman's Touch."


Mark E. Leiser, "Viewer Perceptions of Violence in Sports Television."

Sonja E. Regelman, "Arbitrary Places."


Heather D. Mead, "Stories for Survival: Storytelling and Identity in Contemporary Southern Women's Writing."

Erec Steven Smith, "Rediscovering Myth: Aspects of Shamanism in the Novels of Toni Morrison."

French: Judith J. Marcus, "Toulouse et l'industrie aeroautique: l'essor d'une economie regionale."

International Relations: Sean Jones, "Choosing Paths: An Analysis of Post-Cold War American Foreign Policy in East Asia."

Politics: Andrew W. Bonekemper, "The Constitutionality of School Vouchers."

Psychology: Kristin Lindberg, "Religious Faith and Disciplining Children."

Carolyn C. McNamara, "The Impact of Field Independence in Academic and Leadership Spheres."

Shirinak Shokouhi-Behnam, "Value Priorities of Iranian and American College Students."
Spanish: Bridget A. Grande, "La Doble Disposición del indio y el Ladino: Hombres de Maíz Como Representación de la Historia."

Honor Societies

Phi Beta Kappa is a national academic honor society founded at the College of William and Mary in Williamsburg, Va., on Dec. 5, 1776. The stated purpose of Phi Beta Kappa is to "recognize and encourage scholarship, friendship, and cultural interests." The Ursinus College chapter, Tau of Pennsylvania, was approved on October 19, 1991. Composed of faculty members holding Phi Beta Kappa keys, the chapter confers membership on the basis of "high scholarship, liberal culture, and good character." Election to Phi Beta Kappa is considered the highest academic honor for undergraduate students.

Sigma Xi: The national honorary fraternity for the recognition and encouragement of scientific research, was founded at Cornell University in 1886. The Society was incorporated in 1942. The Ursinus College Sigma Xi Club was installed on October 27, 1966. Election to the club is based on achievement in original research, and limited to juniors, seniors, and faculty.

Pi Gamma Mu: The national social science honorary society for the recognition of scholarship in the social sciences, was founded in 1924. It is affiliated with the American Association for the Advancement of Science. The Ursinus Chapter, Pennsylvania Sigma, was installed Jan. 1, 1950. Election to the society is based on academic achievement in the social sciences and limited to juniors and seniors.

Alpha Sigma Lambda: The national honorary society for continuing higher education students, was founded in 1945 at Northwestern University. The Ursinus College chapter, Gamma Omicron, was installed April 8, 1983. Election to the society is based on academic achievement and is limited to sophomore, junior and senior continuing education students.

Cub and Key Society: The Cub and Key Society was founded in 1939 at Ursinus College to recognize the male leaders of the campus who have distinguished themselves through high scholastic standing, participation in extracurricular activities, and service to the College community. Election to the society is limited to second-semester juniors.

Whitian Society: The Whitian Society was founded in 1939 at Ursinus College by Dr. Elizabeth B. White, professor of history and dean of women. The society recognizes the achievements of women who have distinguished themselves through outstanding academic performance, in
addition to leadership and service to the College. Election to the society is limited to second-semester juniors.

**Additional Honor Societies**

Other honorary societies are discipline-based. They include: *Alpha Psi Omega*, a national honorary dramatics fraternity; *Beta Beta Beta*, an honorary society for the biological sciences; *Kappa Mu Epsilon*, the national mathematics honor society; *Omicron Delta Epsilon*, the international honor society in economics; *Pi Nu Epsilon*, the national honorary music fraternity; *Phi Alpha Theta*, the international history honor society; *Phi Sigma Iota*, the national foreign language honorary society; *Psi Chi*, the national honor society in psychology; *Sigma Pi Sigma*, the national physics honor society; and *Sigma Tau Delta*, the national English honor society.

**Academic Policies**

**The Departmental System**

The departmental system is employed in the organization and administration of instruction at Ursinus College. By this system, 20 majors are offered in 15 departments: anthropology and sociology; biology; chemistry; classics; communication studies and theater, English; economics and business administration; exercise and sport science; history; mathematics and computer science; modern languages; philosophy and religion; physics; politics and international relations; and psychology. An interdisciplinary major in East Asian relations is also offered.

**Special Programs**

**Freshman Advising Program**

The Freshman Advising Program is designed to assist new students adjust to the educational challenges of the college experience. New students meet on a regular basis with their freshman advisers throughout the first year and consult with them about selection of courses, study skills, and personal and career goals.

**Choice of Studies**

At matriculation, students designate possible areas of academic interest. In the second semester, freshmen may declare a major field to study in depth. Students who have not decided on a major by the end of the second or third semester will retain their freshman advisers. In the fourth semester, students must designate a major field. The chairpersons of the students’ major departments will assign their academic advisers. The approval of the adviser is necessary before a student may register for or enter any course of study, or discontinue any work.
Registration
First-year students register for the fall semester in consultation with their advisers on freshman orientation days held during the summer. Returning students register for the fall semester during the spring registration period listed in the back of the catalog. Registration for the spring term is completed for all students during the fall registration period listed in the back of the catalog.

Students are registered according to the schedule for the registration period published by the Registrar’s Office. Before that, students consult with their advisers to prepare schedules of courses for their college careers.

Students must remember that they alone are responsible for making sure they have completed College requirements and departmental requirements. When students change their majors, they must fulfill the requirements of the most-recent major department in order to be graduated.

Students may add or drop courses at any time during the first two weeks of classes. No course may be added after the second week of classes.

Courses dropped after the second week of classes but before the midpoint of the course will be designated by a W on the student’s record. Students who withdraw after the midpoint of a course will receive a grade of WF. Students who withdraw from a course without permission will receive a grade of F. A fee is charged for any change in registration after the first three days of the semester.

Class Attendance
Ursinus College is committed to the principle that class attendance is a vital part of its academic program, making possible that dialogue between student and teacher which is the foundation of the educational process. Students should therefore recognize that absence from class denies them access to the full measure of college education. While urging regular class attendance, the College at the same time wishes to allow students an opportunity to develop a personal responsibility toward academic work. In keeping with these convictions, the following policies govern class attendance:

Students should anticipate that in the normal course of a semester, unanticipated (illness, emergencies) as well as planned events (games, personal business) will call them away from their classes. For this reason, it is important that each student exercise reasonable judgment regarding class attendance at all times. Every student is accountable for all work missed. Instructors, however, are under no obligation to make special arrangements for students who are absent.
A first-year student who is not on the Dean’s List and who is absent from a course for a total of more than two weeks’ meetings may be excluded from the course with a grade of F, unless the dean, after consultation with the faculty member, permits the student to be reinstated.

Students on academic probation are subject to the same regulations as first-year students.

Students for whom an academic warning is issued must limit future absences in that course to the number of times the course meets per week. After the issuance of an academic warning, a student who exceeds the allowed number of absences may be excluded from the course with a grade of F, unless the dean, after consultation with the faculty member, permits the student to be reinstated.

Any instructor may set attendance regulations for courses, but in no case will a student be limited to fewer absences than twice the number of weekly meetings of the course. The faculty member must announce the attendance policy and its consequences on the class syllabus.

Grades of Scholarship
When a course has been completed, the standing of the student is expressed by one of the following grades: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F.

Letter grades have the following equivalence assigned:

<table>
<thead>
<tr>
<th>grade</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
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<tr>
<td>C</td>
<td>2.00</td>
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<tr>
<td>C-</td>
<td>1.67</td>
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<tr>
<td>D+</td>
<td>1.33</td>
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<tr>
<td>D</td>
<td>1.00</td>
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<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

The mark of W signifies that a student withdrew from the course prior to the midpoint of a course, and is not calculated into a student’s average. The mark of WF signifies that a student withdrew from the course after
the midpoint of the course, and is calculated into the student's average as an F (0.00).

The mark of I, which may be given only with the written permission of the dean, is reserved for cases of incomplete work, due to documented physical incapacitation or other extenuating circumstances beyond the student's control. A plan and schedule for completing the remaining work, agreeable to student and professor, must accompany the request for an I. If the mark of I is not removed within one month after the end of the semester in which the I was given, the grade F will be assigned for the course.

Repeating Courses
Students may retake any course, but they shall receive credit only once for the same course. Although a course may be retaken as many times as necessary to receive a passing grade, students may repeat only once courses they passed on the initial try. All grades for courses taken at Ursinus will appear on the transcript, but the last grade earned will replace the previous grades for the purpose of calculating the GPA. Credits earned elsewhere and accepted as transfer credits will not alter the GPA or serve as a replacement grade.

Academic Probation
Any students who have a GPA below C (2.00) at the end of any semester or who have a semester GPA below 2.00 will be placed on academic probation by the Committee on Academic Standing or by the faculty. Students on academic probation may be restricted in their extracurricular activities. On-campus employment and Ursinus College financial aid may be restricted for a student whose average for the preceding academic year, including summer session, is below C (2.00).

Dismissal
Students will be dismissed from the College if at the end of their first semester their GPA is below 0.67; if at the end of their second semester their GPA is below 1.33; if at the end of their third semester their GPA is below 1.67; if at the end of their fourth semester or 64 semester hours (including transfer credits), or any subsequent semester, their GPA is below 2.00. Students will also be dismissed if they achieve a semester average below C (2.00) for more than two successive semesters, regardless of their cumulative average. Exceptions to the above policy must be approved by the faculty, or by the Academic Standing Committee acting for the faculty. The action of the faculty, or the Academic Standing Committee acting for the faculty, in all cases is final. Students who have been dismissed are not eligible to take courses in the Ursinus College Evening Division or in summer school at Ursinus.
Any student may be dismissed from the College for academic violations such as cheating or plagiarism, regardless of the student’s academic average. Non-academic reasons for dismissal are outlined in the Student Handbook.

**Readmission**

Students who have been discontinued for academic reasons may apply for readmission. Unless there are unusual circumstances, applications for readmission will not be considered unless one academic year has passed before the readmission date. Readmission is not automatic. To be considered for readmission, students must demonstrate that they are able and prepared to return to the College for serious academic work. They should take courses at an accredited institution and obtain at least a B (3.00) average. They may work or engage in community service or other volunteer activities that will demonstrate a seriousness of purpose.

Application for readmission is made to the Office of Admissions. Students’ previous academic performance and social activities at Ursinus will be important factors in the readmission decision. The faculty or the Academic Standing Committee must approve readmissions.

**Withdrawal**

Students who seek to withdraw from the College must notify the dean of the College in writing of this intention and its effective date, and must satisfy all obligations (including bills, the return of keys, equipment, and other College property). Failure to meet any such obligation will render the student liable to dishonorable dismissal.

**Study Elsewhere**

Students are not permitted to earn credit toward graduation from Ursinus College by study at another college unless they have been granted permission by their academic advisers and the Committee on Academic Standards and Discipline. Required courses in the department of a student’s major should be taken at Ursinus. Approval to take such courses elsewhere will be granted by the Academic Standards and Discipline Committee only with the approval of the chairperson of the major department and if special or mitigating circumstances exist. Credit, but not grades, for approved courses taken elsewhere will be transferred upon successful completion of the course with a grade of C (2.00) or better and upon receipt of an official transcript from the other college. It is recommended that students take these courses at a four-year institution.
Summer School
Ursinus students engage in research, internships and specialized courses normally not offered during the academic year. Students may consult with the Office of Continuing Education for course offerings available through the Evening Division.

Students wishing to take summer school at other colleges must obtain approval in advance from their adviser, from the chairperson of their department if they wish to take a course required for the major, and from the Dean’s Office. In order for credits for such approved courses to be transferred to Ursinus, the student must obtain a grade of C (2.00) or better and arrange for the college where the courses were taken to send an official transcript to Ursinus.

Critical Languages Program
Highly motivated students interested in doing work in languages not currently offered in the regular curriculum are advised to investigate the opportunity for such study through the Department of Modern Languages or the Critical Languages Program. In the Critical Languages Program, initial emphasis is on the spoken language. As the student progresses, skill in reading and writing is also developed. The program requires 12 to 14 hours per week of self-instruction, using tape-recorded materials coordinated with the text, and a minimum of two hours per week of small group tutorial sessions with a native speaker of the language. At the end of each term, an outside specialist examines the student and evaluates the work covered during the semester. Each course carries three credits. Ursinus College is a member of the National Association of Self-Instructional Language Programs.

Highly motivated students who have successfully mastered another foreign language previously should contact Dr. Robin Clouser (modern languages).

Off-campus Study
Internships
In most departments, students may pursue off-campus internships. These are academic/work experiences under the supervision of an academic adviser and an on-site supervisor.

Juniors and seniors, who have demonstrated responsibility, independence and maturity, and who have a minimum of nine credits in the area of the internship, are eligible. An internship involves at least eight to 12 hours per week for one semester at a job site, but specific details must be defined in consultation with the internship adviser. Internships carry three or four credits, depending on the department. Students may receive
credit for only one internship. Internships are graded in the same manner as any other course; the grades are based primarily on reading, job performance, and a paper.

Any student engaged in an internship must have a faculty internship adviser, who will make on-site visits and grade the project.

The primary responsibility for initiating an internship lies with the student. Students must define the educational objectives of the internship, provide a description of the project, a reading list, and get written approval from the on-site supervisor and from the faculty internship adviser. If the students meet the College and departmental requirements and have the approval of a faculty internship adviser, they file a written internship agreement with the department internship coordinator and with the dean’s office, and register under the appropriate course number.

Interested students should contact the internship coordinator or chairperson in the appropriate departments.

**National Programs**

**Washington Semester**

Ursinus is one of more than 200 institutions participating in the Washington Semester Program, a cooperative arrangement conducted by American University in Washington, D.C. The program offers several specializations, including the American Politics Semester, the Economic Policy Semester, the Justice Semester, the Foreign Policy Semester, the Journalism Semester, and the Art and Architecture Semester. These programs give selected juniors and seniors an opportunity to work with people and resources in the nation’s capital so as to understand better the dynamics of American politics and policymaking. Under the direction of full-time faculty from American University, students participate in seminars with governmental officials, lobbyists, and media representatives; they arrange an internship with one of the three branches of the national government, political parties, interest groups, research organizations, or the media; and they may complete a major research project on a current issue or policy problem. Candidates for selection should have a firm grounding in the area they wish to study.

Interested students should contact Dr. Gerard Fitzpatrick (politics).

**Howard Semester Program**

This program allows Ursinus students to attend Howard University in Washington, D.C., under an exchange agreement between the two institutions. Students wishing to participate will normally do so for one semester in their junior year. Students will pay Howard’s tuition and fees.

Interested students should contact Jenneen Flamer (admissions).
The Philadelphia Center
The Philadelphia Center is an interdisciplinary liberal arts program offering qualified sophomores, juniors, and seniors experiential as well as academic learning within an urban setting. Operated by the Great Lakes College Association, a consortium of 12 liberal arts colleges, the program helps students identify areas of personal, professional, and educational interest while developing independent living skills and an understanding of urban life. In consultation with the program’s full-time faculty, students participate in an array of courses and seminars and select a supervised field placement from a list of more than 500 involving the arts, business, communications, education, health care, law, politics, and social work. The internship provides the foundation for a substantial research project.

Interested students should contact Carla Rinde (Career Services).

International Programs
Ursinus College students may spend a semester, a year, or a summer in an approved study abroad program, provided they are students in good standing, are recommended by their major adviser, and, in the opinion of the dean and the faculty, will be worthy representatives of the College and will profit from this experience. Normally, only juniors are encouraged to apply for semester or year abroad programs, but qualified sophomores also may be recommended. The immediate knowledge of the cultural heritage of another country, with its contemporary economic and social problems, affords students an awareness of differing values and an understanding of our own country’s relation to issues which confront the world today. Students, whether language majors or not, are encouraged to study abroad, but they normally should have completed courses at least through the intermediate level in the language of the country involved. The course of study abroad must be approved at the time that permission is given. Upon evidence of successful completion of the program, a maximum of 16 credits per term will be given for studies pursued abroad. An examination covering the year’s work may be required by the departmental chairperson upon the student’s return. Information may be obtained from the study abroad adviser or advisers responsible for specific programs.

Summer and Winter Programs
Ursinus College offers several programs during the January interim or during the summer. All programs are conducted by Ursinus College faculty.

The summer program in Japan, which runs from late May to late June, is offered in collaboration with Tohoku Gakuin University in Sendai, Japan.
Students live with families while studying at the university and have an opportunity to visit Hiroshima and Tokyo.

Adviser: Chika Inoue (modern languages).

The summer program in Mexico takes place from late May to late June and includes a homestay in Cuernavaca and travel to Puebla, Mexico City, and another area of interest to the group, such as the Yucatan Peninsula, Oaxaca, or the west coast of Mexico.

Adviser: Dr. Shirley Eaton (modern languages)

Biology of Tropical Rain forests is a field study of the Costa Rican rain forest. Qualified students meet for 15 hours on campus and spend three weeks in the field. Side trips include visits to cloud forests or coral reefs. The program is offered in January or during the summer.

Advisers: Drs. Robert and Ellen Dawley (biology).

Winter study in Mexico is a two-week language course, including classroom study, homestay with a Mexican family, afternoon excursions and weekend travel. Offered during winter break.

Adviser: Dr. Shirley Eaton (modern languages).

Winter study in Senegal is a two-week language course, including classroom study, homestay with a Sengalese family, excursions and weekend travel. Offered during winter break.

Adviser: Dr. Frances Novack (modern languages.)

Semester and Year Programs

France: American University Center in Provence

Ursinus has an agreement with the American University Center in Provence, in Aix-en-Provence, France. Students in good standing may study there for a semester or an entire academic year. Students normally should have a 3.00 GPA average and proficiency in French sufficient to study at the 200 level. A special aspect of the program is the French Practicum course, which requires students to integrate into French life by undertaking practical activities which place them in direct, natural contact with the local population. In addition to AUCP classes, students will have the opportunity to study in the French Universite de Provence and will live with French families. The program is open to majors in any subject. Students may transfer up to 16 credits a term.

Adviser: Dr. Frances Novack or Dr. Collette Hall (modern languages).
Germany: Heidelberg University
The University of Heidelberg in affiliation with Heidelberg College of Tiffin, Ohio, serves as the site for Ursinus college students for the entire year, the spring or the shortened fall semester. Requirements: 3.00 GPA and at least two years of college-level language study. All students take an intensive four-week preliminary course. Depending on the results of the mandatory German Language Proficiency Examination, students are placed in courses at the International Study Center, the Insitute for German as a Foreign Language, the Junior Year Student Center or in other departments of the University. All students participate in weekly tutorials, community activities and language exchange partnerships. Internships are available to qualified students. Students are housed with German students in university or private residence halls.

Adviser: Dr. Lynn M. Thelen (modern languages).

Japan: Ursinus/Tohoku Gakuin University Program
Ursinus College has held a long-standing tradition of exchange programs with Tohoku Gakuin, its sister university in Sendai, Japan. The student exchange program, which began in the fall of 1991, provides Ursinus students with the opportunity to spend the fall semester at Tohoku Gakuin at no additional cost except transportation. Classes are conducted in English except for Japanese language classes. The program is open to majors in any subject, and students may transfer up to 16 credits. Admission is competitive and students must have completed some Japanese language courses.

Adviser: Chika Inoue (modern languages).

Mexico: Ursinus/Universidad de las Americas-Puebla Program
This program is a one-for-one student exchange program with the Universidad de las Americas-Puebla in Cholula, Mexico. Students may spend the fall or spring semester or a complete academic year at UDLA at no additional costs except transportation and spending money. If their level of proficiency in Spanish is adequate and they have the required prerequisites, Ursinus students at UDLA may enroll in courses in all fields with Mexican students. If not, they must enroll in special courses for foreigners in Spanish, in Mexican history and culture, and in Latin American literature. This program is open to majors in any field. Students may transfer up to 16 credits per semester.

Adviser: Dr. Shirley Eaton (modern languages).
Senegal: Ursinus/Universite de Saint-Louis
Students may spend the fall semester or an entire academic year in Senegal through a direct exchange program between Ursinus College and the Universite de Saint-Louis. All students are enrolled in an intensive four-week orientation program and take courses at the University. Students participate in tutorials, language exchange partnerships and cultural activities. Housing is provided by the university. Requirements: Two year of college-level language at the 200 level.
Adviser: Dr. Frances Novack (modern languages).

Spain: Instituto Universitario de Sevilla
Ursinus has a formal association with the Instituto Universitario de Sevilla, Spain. Ursinus students who are recommended by the faculty to study in a Spanish-speaking country will be accepted by IUS, provided that they have a cumulative 2.5 GPA. Students who have enough proficiency to take all the courses of study in the language normally take courses at the Instituto and at the University of Seville. The Instituto provides weekly tutorials in addition to regularly scheduled classes. Students who do not have sufficient language preparation may register for the Ursinus in Sevilla program which is offered every fall semester and is intended primarily for sophomores. This program offers courses in language and civilization in Spanish and literature in English. All students live with local families and are paired off with Spanish university students of their same age to provide further integration with Spanish life.
Adviser: Dr. Juan Espadas (modern languages).

Australia, England, Ireland, Scotland and New Zealand
Ursinus College sponsors a variety of semester and year-long educational programs in Australia, England, Ireland, Scotland and New Zealand. All programs are administered by the Institute for Study Abroad (ISA) at Butler University. Admission requirements for the various universities vary and range from a GPA of 2.5 to 3.5 In the past five years students from the sciences, social sciences and humanities have studied at over 20 different universities through ISA. Internships are available at most sites. All students participate in the orientation programs, family or farm visits and special excursions. Students are housed in university or college housing.
Adviser: Dr. S. Ross Doughty (history).
Additional International Opportunities

Ursinus College is affiliated with several consortia of colleges and universities which have been created to offer high quality international experiences to our students throughout the world. The Council on International Education Exchange (CIEE) works with Ursinus College faculty to provide semester or summer experiences to qualified students. They include sites in Argentina, Belgium, Chile, China, Czech Republic, Dominican Republic, Ghana, Hungary, Indonesia, Korea, Netherlands, Poland, Russia, Thailand, Tunisia and Vietnam. These programs are normally conducted in English and are open to students from all majors.

The organization for Tropical Studies (OTS) in Costa Rica offers an integrated program in environmental science, field research in tropical biology, Spanish language and Latin American culture. OTS field stations are prime research sites and facilities used by scientists from all over the world.
The system used in numbering courses reflects in general the year of College in which many students schedule a course. Thus a course taken normally in the first year will begin with the number 1, in the second year with a 2, and so on. Numbers do not indicate the year in which a course must or should be taken. Any specific prerequisite or other considerations for enrolling are stated in the course description.

Summer School offerings are not announced in this catalog, but as far as possible, courses will be offered to meet the needs of students who register for the Summer School. Courses whose numbers are followed by a "W" are writing-intensive courses. Courses whose numbers are followed by a "Q" are those which involve quantitative analysis.

The credit value of each course, expressed in semester hours, is printed in italics. The hours per week are given in the definition of the course.

**AMERICAN STUDIES**

*Associate Professor Hemphill (Coordinator).*

Knowledge of our own culture, its history, literature, and politics, is indispensable to responsible American citizenship. Furthermore, a deeper understanding of American culture enables us to appreciate the way in which our own culture affects our perception of other cultures. The American Studies minor provides an interdisciplinary approach to the study of American life through which students can fully appreciate both its unity and diversity.

The American Studies minor is useful for students interested in graduate study in any of the disciplines included within the minor as well as in professional study in such areas as law, social work, and journalism.

**Requirements for Minors**

A minor concentration in American Studies consists of six courses dealing with aspects of American life. Three of the courses must come from History 221, Politics 218, *either* English 219 or 220, Sociology 255.
Students will select three elective courses from three different disciplines. They must include one course from the discipline omitted in their selection of core courses. Courses listed in the core may be taken as electives. Elective courses must come from the following: History 321, 323, 325, 327, 328, 421; Politics 310, 321, 322, 324, 325, 330, 355, 418; English 222, 340 and the English seminar, if related to American literature; Philosophy 221; Sociology 245, 275; Music 104; Communication Arts 203.

ANTHROPOLOGY AND SOCIOLOGY
Professor Gallagher (Chair), Associate Professor Oboler; Lecturers Kovach, Machado.

Anthropology and Sociology are related disciplines. Both are interested in the social life of groups. Many of the differences that exist between these two disciplines are the result of the original focus of anthropology on non-Western, generally small societies and the primary emphasis of sociology on our own society, which is large and steeped in Western European tradition. Anthropology’s concentration on small, non-Western societies encouraged a reliance on participant observation as a research tool, while sociology’s interest in our own society required a statistical approach to collecting data. Today there are scholars in both disciplines using a wide variety of research tools resulting in an overlapping of the methods of these two disciplines. Because of the intrinsic relationship between anthropology and sociology, many of our courses integrate these two disciplines. We believe that our integration of the disciplines will permit students to understand human behavior better, because they will see the variety of solutions that different societies have developed to resolve human problems, rather than simply analyze our own society.

The Department of Anthropology and Sociology is deeply committed to the liberal arts and encourages students to take a wide variety of courses in many different disciplines. There are many opportunities for our students. One direction is toward graduate programs in anthropology and sociology. A second direction would be alternative graduate programs in social work, public administration, criminology, regional planning, and a variety of other professional degrees in related applied disciplines. Another option is secondary education certification in social studies.

Requirements for Majors
All students majoring in anthropology and sociology must take Anthropology 100 or Sociology 100; Anthropology/Sociology 300 (Methods); Anthropology/Sociology 400W (History and Theories); Anthropology/Sociology 460 (Seminar); four additional courses, at least
two of which must be at the 200 level or above; and choose an emphasis in either anthropology or sociology. In addition, all majors are required to take Mathematics 241 (Statistics I). Those interested in teaching should consult the education department booklet, *Ursinus College Teacher Education Programs*.

I. Anthropology Emphasis
Students choosing the anthropology emphasis must take a minimum of 32 semester hours in anthropology and sociology, including either eight credits of ethnography (chosen from Anthropology 200, 202, 203, 204, 205, 206, 207, 208, 242 and Sociology 255), or four credits of ethnography and Anthropology 390, research, with a focus on physical anthropology and prehistoric archaeology. English 214, linguistics and modern grammar, may be taken by students with an anthropology emphasis as credit toward the major. In addition, it is recommended that anthropology majors fulfill their science requirement in biology, and choose one of the Area Studies minors offered at Ursinus. (East Asian Studies or Latin American Studies).

II. Sociology Emphasis
Students choosing the sociology emphasis must take a minimum of 32 semester hours in anthropology and sociology. Psychology 440, Social Psychology, may be taken by students with a sociology emphasis as credit towards the major. In addition, four credit hours in psychology are required. It is highly recommended that students choosing the sociology emphasis should take courses which will give them a broad insight into Western thought. Thus history, philosophy, and literature electives are encouraged.

Requirements for Minors
The Department of Anthropology and Sociology offers minors in both anthropology and sociology. All students minoring in the department must choose to complete the minor either in anthropology or in sociology.

I. Anthropology Minor
A minor in anthropology requires that students take a minimum of 16 semester hours in anthropology. These courses must include Anthropology 100 (Sociology 100 may be substituted) and at least four credits of ethnography (Anthropology 200, 202, 203, 204, 205, 206, 207, 208, 242 or Sociology 255). [Note: With the possible exception of
ANTHROPOLOGY AND SOCIOLOGY

Sociology 100, courses for the minor must be selected either from the list of anthropology courses or the list of integrated anthropology/sociology courses. They may not include courses from the list of sociology courses.

II. Sociology Minor
A minor in sociology requires that students take a minimum of 16 semester hours in sociology. These courses must include Sociology 100 (Anthropology 100 may be substituted) and at least two of the last three courses must be taken at the 200 level or above.

[Note: With the possible exception of Anthropology 100, courses for the minor must be selected either from the list of sociology courses or the list of integrated anthropology/sociology courses. They may not include courses from the list of anthropology courses.]

ANTHROPOLOGY AND SOCIOLOGY
Because of the close relationship between anthropology and sociology, and the large amount of substantive overlap, the department has decided to avoid redundancy by offering topically organized courses including materials from both disciplines.

*ANSO-226. Marriage, the Family and Kinship  Staff
This is an integrated course which looks at marriage, the family and kinship as vital components of social life in all societies. Marriage, the family and kinship are fundamental aspects of social life in non-Western societies (both small and large) as well as in our own society. The goal of this course is to look at marriage customs, mate selection, divorce, child bearing, parenting, gender and sex roles, and the like, from a global perspective so that students can better understand the range of possibilities that exists in organizing human society, and in order to better understand these institutions in our own society. Prerequisites: Any loo-Ievel course in anthropology and sociology or written permission of the instructor. Three hours per week. Four semester hours.

*ANSO-300. Methods in Anthropology and Sociology  Dr. Gallagher
An introduction to data collection, analysis and interpretation in anthropology and sociology. Students will be exposed to a wide variety of data collection techniques including participant observation, interviews, questionnaires, existing source studies, and the like. Students will also learn how to analyze and interpret the data with the aid of statistics. Ultimately, we will examine the relationship between research and theory. Prerequisites: Any 100-level course in

*This course is not offered in 1997-1998.
anthropology and sociology, at least one 200-level course in anthropology and sociology, and Mathematics 241, or written permission of the instructor. Three hours per week. *Four semester hours.*

**ANSO-381. Anthropology and Sociology Internship**  
Staff  
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact any member of the department for further information. Prerequisites: A major in anthropology and sociology, junior standing, at least 12 credits in anthropology/sociology, and approval of the faculty internship adviser. 12 to 16 hours per week. *Four semester hours.*

**ANSO-400W. History and Theories of Anthropology and Sociology**  
Dr. Gallagher and Dr. Oboler  
A study of anthropology and sociology within the framework of Western thought. An analysis of the development of anthropological and sociological theory from the 19th century until today. Prerequisites: Anthropology 100 or Sociology 100, and Anthropology/Sociology 300. Three hours per week. *Four semester hours.*

**ANTHROPOLOGY AND SOCIOLOGY**

**ANSO-460. Seminar in Anthropology and Sociology**  
Staff  
Seminar is the capstone course in the department of anthropology and sociology. As such, it will require that students choose a significant problem that is faced by our society, and using data from anthropology and sociology, as well as information from related disciplines, take an in-depth look at some significant issue. Students will also be required to report their findings in a major paper, and to report their results orally to the other members of the seminar. The topic of the seminar will change each time. Prerequisites: Any 100-level course in anthropology and sociology, Anthropology/Sociology 300, and Anthropology/Sociology 400. Three hours per week. *Four semester hours.*

**ANTHROPOLOGY**

Anthropology is by definition and scope an interdisciplinary subject which addresses itself holistically to the study of people from many places and many periods of time. Anthropology encompasses four distinct but interconnected subfields of study: physical or biological anthropology, social and cultural anthropology, prehistoric archaeology, and linguistic anthropology. The goal of the department is to help the student to understand what it means to be human and to appreciate our own value system more fully through an exposure to the systems of others.

**ANTH-100. Introduction to Sociocultural Anthropology**  
Dr. Gallagher  
Sociocultural anthropology is one of four subfields in anthropology. This course will emphasize sociocultural anthropology but will also briefly look at the other subfields, physical, prehistoric archaeology, and linguistics. Our main focus will be placed on family patterns, kinship relationships, political organization, economic systems, religion, the arts, and social change. Prerequisites: None. Four hours per week. *Four semester hours.*

**ANTH-200. Introduction to Ethnography**  
Dr. Gallagher  
Ethnography is the essence of cultural anthropology. This course will explore the ethnographic approach of living with a group of people, collecting information about their culture directly and analyzing these data. Two hours per week. *Two semester hours.*

*This course is not offered in 1997-1998.*

A course which requires the student to prepare a list of articles and books which focus on Native Americans from Meso-America to the Arctic Circle. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or corequisite: Anth 200. Two semester hours.

ANTH-203. South American Ethnography

A course which requires the student to prepare a list of articles and books which focus on Native Americans from Meso-America to Tierra del Fuego. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or corequisite: Anth 200. Two semester hours.

ANTH-204. Pacific and Pacific Rim Ethnography

A course which requires the student to prepare a list of articles and books which focus on Polynesia, Melanesia, Micronesia, Australia, and the Pacific Rim. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or corequisite: Anth 200. Two semester hours.

ANTH-205. Middle East Ethnography

A course which requires the student to prepare a list of articles and books which focus on the Middle East and North Africa. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or corequisite: Anth 200. Two semester hours.

ANTH-206. East Asian Ethnography

A course which requires the student to prepare a list of articles and books which focus on Japan, Korea, China, Vietnam, Cambodia, Laos, the Philippines, Indonesia, and other nearby countries. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or corequisite: Anth 200. Two semester hours.

ANTH-207. South Asian Ethnography

A course which requires the student to prepare a list of articles and books which focus on India, Pakistan, Bangladesh, Nepal, and other countries in the area. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or corequisite: Anth 200. Two semester hours.

ANTH-208. World Ethnography

A course which requires the student to prepare a list of articles and books which focus on a variety of cultures from around the world. These books and articles must be read carefully and critiqued, analyzed, and/or presented in written form. Requires six to eight hours per week. Pre- or co-requisite: Anth 200. Two semester hours.

ANTH-242. Peoples of Africa

The African continent south of the Sahara is a complex array of cultures. This course will introduce students to sub-Saharan Africa, by emphasizing both the tremendous diversity of African cultures and the unifying themes that distinguish Africa as a cultural area. Topics include history of human settlement and population migrations; social, political, and economic organization; traditional and contemporary religion and belief systems; the impact of European colonization; and contemporary social change. The special case of South Africa receives in-depth attention at the end. Prerequisite: Any 100-level course in anthropology or anthropology/sociology. Three hours per week. Four semester hours.

ANTH-351. Topics in Anthropology

An occasional course which will focus on special topics in anthropology. This course is offered as needed. Prerequisite: Any 100-level course in anthropology and sociology or written permission of the instructor. Three hours per week. Four semester hours.

ANTH-371. Readings in Anthropology I

Readings in anthropology is a directed reading course in which a student can further develop an interest he or she began in a course, or can explore an interest in the field for which we do not provide a course. In order to register for readings, a student must have a clear goal, must
present a bibliography to the faculty member who will be supervising the readings course, and the work will be demonstrated. Prerequisites: A student must be a major in anthropology and sociology, and have completed at least four courses toward the major. Six to eight hours of reading per week. Two semester hours.

ANTH–372.  Readings in Anthropology II
Staff
A continuation of Anthropology 371. Prerequisites: A student must be a major in anthropology and sociology, and have completed at least four courses toward the major, and have completed Anthropology 371. Six to eight hours of reading per week. Two semester hours.

ANTH–390.  Research
Staff
Research involves directed readings and research on an anthropological topic. A student wishing to register for this course must present to the instructor a proposal outlining the research to be completed. The proposal must be approved by the instructor prior to registration. The student must meet with the instructor at regular intervals during the semester, and must submit frequent written progress reports. A final paper will be required. Prerequisites: Anthropology 100, two 200-level anthropology courses, and written permission of the instructor. Four semester hours.

ANTH–491.  Research/Independent Work
Staff
This course is open to candidates for departmental honors and to other students with the permission of the department chair. Prerequisites: A minimum of eight semester hours of 300- or 400-level courses and the permission of the department chair. Four semester hours.

ANTH–492.  Research/Independent Work
Staff
A continuation of Anthropology 491. Prerequisites: Anthropology 491 and permission of the department chair. Four semester hours.

SOCILOGY
Sociology is concerned with the analysis of social life. It is the goal of the department to assist the student in developing insights into why the analysis of social life is considered to be important, what this approach can offer in terms of understanding people, and how it will help us to understand our own society.

SOC–100.  Introduction to Sociology
Dr. Oboler
Designed to introduce students to the discipline of sociology, this course emphasizes basic sociological concepts and their applications to various real-life social situations. Topics discussed include society, culture, social groups, interaction, deviance, social stratification, gender roles, race relations, population, urbanization, social change, and social institutions, particularly religion and the family. Four hours per week. Four semester hours.

SOC–245.  Equality and Inequality
Staff
An analysis of the bases and perpetuation of social inequalities, including class, race, gender and other forms of inequality. Theories of causes of stratification and problems of measuring different levels of wealth, power and prestige are examined. Consideration of how social inequality is structured in non-industrial societies precedes emphasis on the nature of social inequality in the United States. Cross-national comparisons of social stratification in modern industrial societies are also made. Prerequisite: Any 100-level course in anthropology and sociology or written permission of the instructor. Three hours per week. Four semester hours.

SOC–255.  American Ethnic Groups
Dr. Oboler
This course focuses on ethnic patterns of community social life in urban, suburban, and rural settings. It explores the range and diversity of American ethnic subcultures. It also studies

*This course is not offered in 1997-1998.
ANTHROPOLOGY AND SOCIOLOGY

the processes of assimilation and diversification of ethnic groups in the national political, economic and cultural framework. Prerequisites: None. Three hours per week. *Four semester hours.*

SOC-265. Criminology **Staff**
Criminology is designed to introduce students to the field. In this course we will look at what constitutes criminal behavior, criminal law, and our system of criminal justice. Students will be introduced to the theoretical explanations used by social scientists and others to account for crime. Students will also learn about the production and collection of crime data, and about the "criminogenic" features of modern societies, particularly the United States. Three hours per week. *Four semester hours.*

SOC-275. Social Problems **Dr. Gallagher**
Many societal problems have broad historical and/or social implications. In this course, we will analyze a number of these problems, including poverty, racial and ethnic discrimination, sexual discrimination, illness and medical care, the changing family, environmental crises, abortion, terrorism, and war. Prerequisite: None. Three hours per week. *Four semester hours.*

SOC-295. Sociology of Medicine **Dr. Gallagher**
An exploration of various aspects of the health-care system. We will focus on views of illness and disability, patients, doctors, hospitals, and the interaction between these elements as they are influenced by and influence society. Prerequisite: None. Three hours per week. *Four semester hours.*

SOC-360. Topics in Sociology **Staff**
An occasional course which will focus on special topics in sociology. This course is offered as needed. Prerequisites: Any 100-level course in anthropology and sociology, and at least one 200-level sociology course. Three hours per week. *Four semester hours.*

SOC-375. Readings in Sociology I **Staff**
Readings in sociology is a directed reading course in which a student can further develop an interest he or she began in a course, or can explore an interest in a field in which we do not provide a course. In order to register for readings, a student must have a clear goal, must present a bibliography to the faculty member who will be supervising the readings course, and the work will be demonstrated. Prerequisites: A student must be a major in anthropology and sociology, and have completed at least four courses toward the major. Six to eight hours of reading per week. *Two semester hours.*

SOC-376. Readings in Sociology II **Staff**
A continuation of Sociology 375. Prerequisites: A student must be a major in anthropology and sociology, and have completed at least four courses toward the major, and have completed Sociology 375. Six to eight hours of reading per week. *Two semester hours.*

SOC-391. Research **Staff**
Research involves directed readings and research on a sociological topic. A student wishing to register for this course must present to the instructor a proposal outlining the research to be completed. The proposal must be approved by the instructor prior to registration. The student must meet with the instructor at regular intervals during the semester, and must submit frequent written progress reports. A final paper will be required. Prerequisite: Any 100-level course in anthropology and sociology or written permission of the instructor. *Four semester hours.*

SOC-491. Research/Independent Work **Staff**
This course is open to candidates for departmental honors and to other students with the permission of the department chair. Prerequisites: A minimum of eight semester hours of 300- or 400-level courses and the permission of the department chair. *Four semester hours.*

SOC-492. Research/Independent Work **Staff**
A continuation of Sociology 491. Prerequisites: Sociology 491 and permission of the department chair. *Four semester hours.*

*This course is not offered in 1997-1998.*
ART
Professor Visser, Associate Professor Xaras (Chair); Adjunct Professor Barnes, Instructors Zucker, McCarthy.
Students in a college of liberal education should gain an acquaintance with and an understanding of the creative arts in the broad cultural and intellectual context of Western civilization. Courses are offered in both art history and in studio art.

Minor in Art

A minor concentration in art consists of 20 credits in art.

ART-100. Introduction to Art Staff
The course provides an introduction to the principal elements of the visual arts, including architecture. The purpose of the course is to provide a foundation for an understanding of the visual arts. The approach will be topical, drawing from the spectrum of Western and non-Western art. Intended for freshmen and sophomores. Three hours per week. *Three semester hours.*

ART-201. Introduction to Studio Art I Mr. Xaras
The course introduces students to the two-dimensional media, including principles of line, shape, color and composition and experience in drawing and painting. Students are expected to develop a portfolio of work outside the class meetings. Enrollment limit of 18. Intended for freshmen and sophomores. Three hours per week plus extensive individual work. *Four semester hours.*

ART-202. Introduction to Studio Art II Mr. Xaras
This course is a continuation of Studio Art I, in which students develop their creative ability in two-dimensional media. Students are expected to continue developing their talents and techniques outside class. Enrollment limit of 18. Prerequisite: Art 201, or permission of instructor based on portfolio. Three hours per week plus extensive individual work. *Four semester hours.*

ART-203. Special Topics in Studio Art Staff
This course offers an opportunity to develop creative ability using various two and three-dimensional media. The specific course focus will vary from semester to semester, but topics will include sculpture, graphic design, and printmaking. Open to all students. Enrollment is limited to 12. Three hours per week. *Four semester hours.*

ART-204 The Art of Photography Staff
To explore the expressive qualities of black & white photography as an art form, the student will learn the use of the camera and basic darkroom techniques. The student will learn how to see photographically through a study of contemporary and historical photography, as well as through practical exercises. Open to all students, but students must have access to a 35 mm camera with manual controls. Enrollment is limited to 12. Three hours per week. *Four semester hours.*

ART-301. Drawing Mr. Xaras
Sustained studio work exploring traditional and modern procedural and conceptual expression using pencil and charcoal. Students must develop their techniques in significant independent work beyond the contact hours. Prerequisite: Art 202 or permission of instructor based on portfolio. Enrollment limit of 18. Three hours per week. *Four semester hours.*

ART-302. Painting Mr. Xaras
Sustained studio work exploring traditional and modern procedural and conceptual expression in various painting media. Students must develop
ART/BIOLOGY

their techniques in significant independent work beyond the contact hours. Prerequisite: Art 202 or permission of instructor based on portfolio. Enrollment limit of 18. Three hours per week. Four semester hours.

ART-311. History of Art I: Ancient Through Renaissance Staff
An introduction to the history of architecture, sculpture, and painting through the Renaissance, presented by means of illustrated lectures and museum trips. Three hours per week. Four semester hours.

ART-312. History of Art II: Renaissance to Impressionism Staff
An introduction to the history of Western architecture, sculpture, and painting from the Renaissance to French Impressionism. Three hours per week. Four semester hours.

*ART-313. History of Art III: Post-Impressionism Staff
An introduction to the history of Western art from the 19th century to the present. Three hours per week. Four semester hours.

ART-401. Special Projects in Fine Art Staff
Advanced independent work on a creative project approved and supervised by a faculty adviser. Prerequisite: A juried portfolio or other creative works. Four semester hours.

ART-414W. Seminar in the History of Art Staff
In the course, students will develop research criteria and techniques, using museum and library resources, in topics in a specific era of art history. Prerequisite: Art 311, 312, or 313, or permission of instructor. Three hours per week. Four semester hours.

ART-491. Research/Independent Work Staff
This course is open to candidates for departmental honors and to other students, with the permission of the instructor. Four semester hours.

ART-492. Research/Independent Work Staff
A continuation of Art 491. Prerequisite: Art 491. Four semester hours.

ASTRONOMY
See Physics and Astronomy

BIOLOGY

Professors Allen, Fields, Shinehouse, Sidie, Small; Associate Professors E. Dawley (co-Chairperson), R. Dawley (co-Chairperson); Assistant Professors Esch, Goddard, Lobo; Adjunct Professor Noveral

The underlying philosophy of the departmental curriculum is to provide a balanced and current biological education within the broader context of the liberal arts. The curriculum has been designed to keep pace with new developments in the field and to afford students as broad a base as possible for understanding the principles governing life processes.

Coursework provides a firm foundation of knowledge in the various sub-disciplines, fosters the scientific attitude, and familiarizes students with current research methods. A capstone course, coupled with oral and written experiences within the department, helps to develop and reinforce the ability to think clearly, critically and independently. In the junior and senior years, students have the opportunity to pursue an independent project, which may include research with a faculty mentor.

*This course is not offered in 1997-1998.
Successful completion of the curriculum prepares students for graduate work, for employment in a biologically oriented profession, or for admission to professional schools in the several fields of medicine and related health services. The department also participates in a program leading to teacher certification in secondary schools as described below.

Requirements for Majors
To fulfill the requirements of the major, all students must complete 36 semester hours of biology as outlined in the departmental core and the ancillary requirements listed below.

I. **Required Courses:** Biology 111Q, 112Q and one of the following capstone courses: Biology 415W, 424W, 426W, 431W, 436W, 442W, 449W, 470W, 480W, 482W, 491, 492W.

II. **Distribution requirements:** At least two courses must be completed in each of the following divisions:

III. **Electives:** Chosen in accordance with the major area of interest and bringing the total to a minimum of 36 credit hours in biology.
    **NOTE:** A maximum of 10 credit hours of research may be applied to the major.

IV. **Required of all majors:**
   A. Chemistry: 105/105a and a choice of 106/106a or 206/206a.

V. **Recommended to all majors:**
   A. One year of physics
   B. A second year of organic chemistry

Requirements for Minors in Biology
A minor concentration in biology consists of Biology 111Q, 112Q and at least 12 additional elective credits in biology, exclusive of internships or research.
Biology

Requirements for Minors in Biochemistry

A minor concentration in biochemistry consists of Biology 315 and Chemistry 309/309a, plus four additional courses chosen from the following: Biology 225, Biology 226/226a, Biology 426, Chemistry 306/306a, Chemistry 310/310a, and Chemistry 311/311a.

Special Career Interests

I. Students seeking admission to graduate programs in biologically related fields should note the following:
   1. A second year of chemistry is strongly recommended.
   2. A fifth course in chemistry is recommended.
   4. Additional coursework in mathematics/computer science is recommended.

II. Prospective secondary school teachers whose interest is biology and who wish to be certified in biological science should note the following:
   1. Physics 100 or 111Q is required; a year of physics is recommended.
   2. Geology 100 is required.
   3. Two mathematics courses are required from among Math 111, 112, 241Q, 242, 271.
   4. Chem 105/105a and a choice of 106/106a or 206/206a are required.
   5. It is highly recommended that prospective teachers serve at least one semester as departmental assistants.
   6. Dual certification in general science is highly recommended.
   7. The curriculum beyond the first year must be arranged in consultation with the chairman of the department of education or with the departmental teacher education adviser. Students and their advisers should consult the education department booklet, *Ursinus College Teacher Education Programs*.

III. Students seeking admission to schools of medicine, dentistry, veterinary medicine, optometry and podiatry should note the following:
   1. Two years of chemistry and one year of general physics for science majors are required by all of the above schools.
   2. Many schools also require one full year of English and some specify one or two semesters of calculus.
   3. Students and their advisers should consult the premedical handbook or one of the premedical advisers for requirements of specific schools.
IV. Students seeking admission to other health science programs, such as physical therapy, should consult the departmental allied health adviser.

V. Students who seek employment in a biologically oriented profession should note the following:
1. Mathematics 241, 242, and 271 are strongly recommended.
2. Economics and Business Administration 100 and 105 are recommended.
3. Additional coursework in communication arts is recommended.
4. Additional coursework in English composition is recommended.

BIO-100Q. Introduction to Biology
Dr. Fields
A study, designed for the non-science major, of selected fundamental principles of the science of biology. Societal issues and current biological problems will be stressed. Two hours of lecture; two hours of laboratory and/or discussion. Three semester hours.

NOTE: Students who have received credit for either Biology 111Q or 112Q may not enroll in Biology 100Q.

BIO-111Q. Principles of Biology: Organisms and Populations
Drs. Dawley
An introduction to the principal concepts underlying ecology, evolution, organismal diversity, and organismal structure and function. Field and laboratory exercises emphasize independent investigation. Three hours of lecture; three hours of laboratory per week. Four semester hours.

BIO-112Q. Principles of Biology: Cells and Genes
Drs. Lobo, Esch
An introduction to the molecular basis of life and its perpetuation. Topics include elementary biochemistry, cellular organization and function, bioenergetics and genetics. Laboratory experiments cover aspects of molecular, cellular, and genetic biology. Three hours of lecture; three hours of laboratory per week. Four semester hours.

NOTE: Courses BIO-111Q, 112Q are the basic introductory courses required of all biology majors and of any others who are planning to meet the various pre-professional requirements in the health sciences.

BIO-200a. Human Heredity
Dr. Fields
A study, for non-science majors, of human genetics with emphasis on classical inheritance and the human application of molecular genetics. Social implications and current biological problems will be addressed. Prerequisite: Bio. 100Q or 111Q. Two hours of lecture; two hours of laboratory and/or discussion. Three semester hours.

NOTE: Biology 100Q and 200 may not be used for elective credits in biology for biology majors or minors.

BIO-200b. Environmental Science
Dr. Sidie
An introduction, for non-science majors, to the biological basis of environmental issues. Includes a study of ecosystems, populations, resources, energy, hunger, pollution, weather/climate, endangered species and land use. Prerequisite: Any 100-level course in biology, chemistry, geology, or physics. Two hours of lecture; two hours of laboratory and/or discussion. Three semester hours.

NOTE: Biology 100Q and 200 may not be used for elective credits in biology for biology majors or minors.

BIO-222 Vertebrate Biology
Dr. Allen
A study of the fossil history and modern diversity, life styles and adaptations of modern vertebrate animals and their interactions with one another and with the environment. Prerequisites: Biology 111Q and 112Q or permission of the instructor. Three hours of lecture per week. Four semester hours.

BIO-225. Cell Biology
Dr. Esch, Dr. Sidie
A study of the fine structure and function of prokaryotic and eukaryotic cells, with emphasis on the function of cellular organelles including the processes of respiration, photosynthesis, and movement. Prerequisites: Biology 100Q, 112Q
or permission of the instructor. Three hours of lecture per week. *Three semester hours.*

**BIO-225a. Cell Biology Laboratory**

Drs. Esch, Noveral

Laboratory work related to cell biology with emphasis on physiological techniques, including isolating procedures, spectography and chromatography. Pre- or corequisite: Biology 225. Three hours per week. *One semester hour.*

**BIO-226. Genetics**

Dr. Goddard

A survey of the basic principles of classical, molecular, biochemical and population genetics using a variety of organisms to illustrate the experimental rationale of the genetic problem. Prerequisites: Biology 111Q and 112Q, or permission of the instructor. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

**BIO-232. Ethology**

Dr. Sidie

A study of the biological basis of behavior. Topics include the neural and hormonal basis of behavior, orientation mechanisms, biological clocks, animal communication, learning, sociobiology, genetics of behavior, and the evolution of behavior. Prerequisites: Biology 111Q and 112Q or 200; or permission of the instructor. Three hours of lecture per week. *Three semester hours.*

**BIO-232a. Ethology Laboratory**

Dr. Sidie

Experimental investigations of animal behavior. Topics studied include orientation reactions, fish schooling, circadian rhythms, electric fish, habituation, conditioning, pheromones, social behavior, sensory signals and territoriality. Pre- or corequisite: Biology 232. Three hours of laboratory per week. *One semester hour.*

**BIO-310. Experimental Methods**

Dr. Sidie

A course in the application of experimental techniques in biology. Topics include experimental design, biostatistics, computer applications in biology, scientific literature, and biological instrumentation. Prerequisites: Biology 111Q, 112Q. Three hours of lecture, three hours of laboratory per week. *Four semester hours.*

**BIO-311. Comparative Vertebrate Anatomy**

Dr. Allen

A comparative study of body structures, their functions and their evolution in the major groups of vertebrate animals. Laboratory exercises investigate comparative structure in selected vertebrates. Prerequisite: Biology 111Q and 112Q or permission of the instructor. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

**BIO-315. Biochemistry**

Dr. Esch

The study of the properties, structure, synthesis and metabolism of carbohydrates and proteins. Biological oxidations, enzyme catalysis, and the chemistry of selected physiological processes are also included. Prerequisites: Biology 112Q and Chemistry 208. Three hours per week. *Three semester hours.*

**BIO-315L. Biochemistry Laboratory**

Dr. Esch

Laboratory work involving isolation, separation, and analysis of macromolecules. Includes an introduction to biochemical literature. Prerequisites: Biology 112Q, Chemistry 208, and pre- or corequisite Biology 315. Three hours of laboratory per week. *One semester hour.*

**BIO-317. Human Anatomy and Physiology**

Staff

A study of the characteristics of cells and tissues, and the muscular, skeletal and nervous systems. Emphasis is placed on the integration of structure and function. Prerequisite: Biology 100Q or 112Q or permission of the instructor. Three hours of lecture; two hours of laboratory per week. *Four semester hours.*

**BIO-318. Human Anatomy and Physiology**

Staff

A study of the structure and function of the sense organs, and of the circulatory, respiratory, urinary, digestive, endocrine and reproductive systems. Prerequisite: Biology 317 or permission of the instructor. Three hours of lecture; two hours of laboratory per week. *Four semester hours.*

**BIO-320. Biology of Tropical Rain Forests**

Drs. Dawley

A field study of Costa Rican rain forests. Topics include diversity and natural history of key plants and animals, ecological interactions and evolutionary processes, and conservation. May include side trips to cloud forests or coral reefs. Prerequisite: Permission of instructor; Biology 100Q or Biology 111Q recommended. Field investigations accompanied by readings, lectures, and a directed research project. Course will meet 15 hours on campus and three weeks in the field. *Four semester hours.*
Note: This course will run during the January interim or during the summer.

BIO-330. Marine Biology  Dr. Sidie
A field-oriented study of the important marine habitats, including pelagic and benthic zones, and intertidal communities. Topics include physical and chemical oceanography, marine plants, zooplankton, nekton, marine animals, and the marine ecosystem. Prerequisite: Biology 100Q and 200, or Biology 111Q and 112Q, or permission of the instructor. Lecture and field investigations. (Course conducted in part at a marine field station.) *Four semester hours.*

BIO-332. Histology  Staff
A study of the structure of vertebrate tissues and their integration into organs and organ systems. An introduction to histological technique. Prerequisites: Biology 111Q and 112Q or permission of the instructor. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

BIO-333. Plant Diversity  Dr. Fields
A phyllogenetic survey of the major non-vascular plant groups with an accompanying comparison to the flowering plants. The course will include identification, morphology, ecology and isolation and culture techniques. Prerequisites: Biology 111Q and 112Q. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

BIO-334. Biology of the Vascular Plants  Dr. Small
A survey of the morphology and evolution of the vascular plants, including the principles, theory and methodology underlying modern taxonomic systems. Available field time centers upon the morphology and taxonomy of the local vascular flora. Prerequisites: Biology 111Q and 112Q. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

BIO-335. Plant Physiology  Dr. Fields
A study of life processes of green plants and the environmental factors that regulate them. Experiments will illustrate physiological concepts. Prerequisites: Biology 111Q and 112Q; Chemistry 208. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

BIO-345. Microbiology  Dr. Lobo
The structure, physiology, genetics, diversity, and ecology of micro-organisms. Topics in medical microbiology will be discussed to illustrate basic principles of pathology, virology, immunology, and epidemiology. The laboratory will cover techniques of bacterial propagation, purification, identification, and genetic experimentation. Prerequisites: Biology 111Q and 112Q. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

BIO-346. Animal Physiology  Staff
An investigation of the biological, chemical and physical basis of animal function. Topics studied include enzymes and energetics, permeability and transport, cellular signaling, sensory systems, motility, osmoregulation and excretion, circulation, gas exchange, feeding and absorption. Prerequisites: Biology 111Q and 112Q. Three hours of lecture; three hours of laboratory per week. *Four semester hours.*

BIO-350. Selected Topics in Biology  Staff
A course offered periodically in an area of special interest to students by a staff member or a visiting lecturer. Prerequisite: permission of the instructor. Three hours per week, plus either intensive writing or three hours of laboratory, depending on the topic. *Four semester hours.*

BIO-381. Internship  Staff
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chairman of the department for further details. Credit toward requirements of the biology major will not be granted for both Biology 381 and Biology 480W. Prerequisites: Junior standing, nine credits in biology, and approval of a faculty internship adviser. Eleven to fourteen hours per week. *Four semester hours.*

BIO-390. Directed Study  Staff
An introduction to the nature of biological research which can take the form of a library review paper or directed research in an ongoing research project. Prerequisites: Biology 111Q, 112Q and permission of staff supervisor. *One semester hour.*
BIOLOGY

BIO–391. Directed Research Staff
Laboratory and/or field experiences under the direction of a faculty member and designed to introduce students to fundamental research procedures and data manipulation in the context of an original research project. Prerequisites: Biology 111Q, 112Q and permission of a participating staff member. Three hours of laboratory per week. One semester hour.

BIO–392. Directed Research Staff
Content as in Biology 391, but offered in the spring term. Prerequisites: Biology 111Q, 112Q and permission of a participating staff member. Three hours of laboratory per week. One semester hour.

BIO–415W. Ecology Dr. Small
Studies of the interrelationships between organisms and their environments that determine their distribution and abundance in natural systems. Aspects of energy flow, biotic and abiotic limits, population growth and community organization are considered in the context of the ecosystem. Laboratories include local field work and emphasize techniques for collecting and analyzing data. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 111Q and 112Q, English 100, or permission of the instructor. Three hours of lecture, three hours of laboratory per week. Four semester hours.

BIO–424W. Evolution Dr. R. Dawley
A study of the processes of evolution, including population genetics, molecular evolution, the formation of new species, and evolutionary patterns of higher taxa through geologic time. The course will examine in detail the Neo-Darwinian theory of adaptation and natural selection as well as competing scientific explanations of evolutionary change. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 111Q and 112Q, English 100, or permission of the instructor. Three hours of lecture per week. Four semester hours.

BIO–426W. Molecular Biology Dr. Lobo
A survey of gene structure, transcription, translation, regulation, and replication, as well as the theory underlying laboratory techniques used in their study. Laboratory experiments will include DNA and protein isolation, enzymatic manipulations, electrophoresis, and nucleic acid hybridization in an attempt to clone and analyze a bacterial gene. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 111Q and 112Q, English 100, Chemistry 207 and 208; or permission of the instructor. Biology 226 is recommended. Three hours of lecture; three hours of laboratory per week. Four semester hours.

BIO–431W. Neurobiology Dr. Sidie
Biophysics of excitable membranes, physiology of synapses, sensory receptors, integrative neurophysiology, neuromuscular systems, excitation-secretion coupling and the coding of neural information. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 111Q and 112Q, English 100, or permission of the instructor. Three hours of lecture; three hours of laboratory per week. Four semester hours.

BIO–436W. Analysis of Development Dr. Allen
Investigation of the mechanisms that bring about the differentiation of cells and their subsequent organization into tissues, organs and organ systems. Laboratory work stresses the embryonic development of vertebrates. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 226, English 100. Three hours of lecture; three hours of laboratory per week. Four semester hours.

BIO–442W. Mammalogy Dr. E. Dawley
A study of vertebrate biology using the mammalian class as the case study. The course includes evolutionary history, phylogeny, diversity, structure and function, behavior and ecological aspects of mammals. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 111Q and 112Q, English 100, or permission of the instructor. Three hours of lecture; three hours of laboratory and field investigations per week. Four semester hours.
BIO-449W. Immunology Dr. Lobo
A study of the cellular and humoral aspects of immunity in humans and other mammals. The course will cover interactions between mammalian hosts and bacterial, fungal, and viral antigens: tumor and transplantation immunology, vaccines and their development and the evolution of the immune system. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 111Q, 112Q and 225; or permission of instructor. Biology 226 and 345 are recommended. Three hours per week. *Four semester hours.*

BIO-470W. Senior Seminar Staff
An in-depth investigation of a biological topic of current interest. Its study will involve discussions and reports based on current primary and review literature and will culminate in an independent library research project and its oral presentation. This course fulfills the capstone, oral and writing requirements within the major. Prerequisites: English 100, senior standing, permission of the instructor. Course offered both semesters. *Three semester hours.*

BIO-480W. Off-Campus Research Staff
An approved, off-campus field or laboratory research experience supervised by a faculty internship adviser and an on-site supervisor. Approved projects result in the library-assisted preparation of a final written thesis and an oral presentation of its results before a faculty/student colloquium. This course fulfills the capstone, oral, and writing requirements within the major. Credit toward requirements of the biology major will not be granted for both Biology 381 and Biology 480W. Pre- or corequisites: English 100, junior or senior standing, and written consent of a faculty adviser. Eleven to fourteen hours per week. *Four semester hours.*

BIO-481. Independent Research Staff
Laboratory or field investigation of some biological phenomenon. This original work includes library-assisted preparation of a final written thesis and the oral presentation of its results before a faculty/student colloquium. Pre- or corequisites: junior or senior standing, written consent of a staff member who will serve as research adviser. *Four semester hours.*

BIO-482W. Independent Research Staff
Content as in Biology 481. This course continues the original work begun in Biology 481 and fulfills the capstone, oral and writing requirements within the major. Prerequisites: Biology 481, English 100, junior or senior standing, written consent of a staff member who will serve as research adviser. *Four semester hours.*

BUSINESS ADMINISTRATION
See Economics and Business Administration
CHEMISTRY

Professors Hess, Levy, Schultz, Tortorelli (Chair); Associate Professor Price; Assistant Professors Gaede, Williamsen.

The chemistry department at Ursinus College has been accredited by the American Chemical Society since 1959.

The objectives of the department are (1) to offer specialized training in chemistry, beyond the basic course, that will enable a graduate to enter a career as a professional chemist; (2) to prepare the student for graduate study; (3) to provide a strong foundation for the student planning to enter medicine, dentistry, or an allied health field; (4) to prepare the student for teaching chemistry at the secondary level; (5) to provide courses which satisfy the departmental requirements for a comprehensive minor; and (6) to provide a course in general chemistry which satisfies the natural science requirements of the College.

Recognizing that students have different educational objectives, the chemistry department offers several programs leading to a major. Students wishing to combine a chemistry major with a major/minor concentration in another academic department may enroll in any one of the following programs (tracks) in accordance with their career interests.

Requirements for Majors

Regardless of track, all majors must complete the following courses:
Chemistry 105/105a, 106/106a, 205/205a, 206/206a, 209, 211, 222, 309/309a, 313, 314a; Math 111/112; and Physics 111Q/112.

Track 1. Major Specialization in Chemistry
Students planning to enter the chemical industry or planning further study in chemistry or chemically related areas (e.g. engineering, biochemistry, material science, and the like) may enroll in this program. In addition to the courses required of all majors, this specialization consists of the following courses central to the field of chemistry: Chemistry 310; and either 491/492W or one additional lecture course, one additional laboratory course, and 400W.

Track 2. American Chemical Society Certified Major—Chemistry Emphasis
The American Chemical Society has adopted a set of standards for undergraduate training in chemistry. In addition to the courses required of all majors, students seeking certification must complete the following
CHEMISTRY

courses: Chemistry 310/310a; 401/401a; and either 381 and 400W, 390 and 400W, 400W and 491, or 491 and 492W.

Track 3. Specialization in Chemistry for Medical School and Allied Fields
This course of study is designed for students planning admission to graduate programs in biochemistry, toxicology, pharmacology, etc., and to professional schools in the healing arts (such as medicine and dentistry) or further study in the health-related fields. In addition to the courses required of all majors, this program consists of the following courses: Chemistry 310; either 400W or 491/492W; Biology 111, 112, and 315/315L.

Track 4. Specialization in Chemistry for Science Teaching
This program satisfies the requirements for secondary school certification in chemistry as established by the Commonwealth of Pennsylvania. In addition to the courses required of all majors, students seeking certification should complete the following: Chemistry 400W, Biology 111 or 112, and the prescribed education courses. A course in geology is recommended. Prospective teachers should serve as laboratory assistants or participate in training. Prospective student teachers must have a 2.00 average in chemistry and receive a departmental recommendation which considers, in addition to academic performance, the student’s interpersonal and communication skills. Students and their advisers should consult the education department booklet, *Ursinus College Teacher Education Programs*.

Requirements for Minors
A minor concentration in chemistry consists of Chemistry 105/105a, 106/106a, 205/205a, 206/206a, 313 or 309/309a, and three additional credits in chemistry.

CHEM–100Q. The Science of Chemistry
A study of the essential nature of chemistry, emphasizing basic chemical principles and applications. Topics may include atomic structure, bonding, the production and utilization of energy, and oxidation-reduction. Societal and historical perspectives are introduced by way of assignments from the popular literature. A knowledge of algebra is assumed. Three hours of lecture and three hours of laboratory per week. *Four semester hours.*

NOTE: A student who has received credit for Chemistry 105 or 111 may not enroll in Chemistry 100Q. Chemistry 100Q may not be used as elective credits for chemistry majors or minors.

CHEM–105. General Chemistry I: Foundations
A study of the principles of chemistry. Topics include structure, bonding, stoichiometry, states of matter, inorganic reactions, thermochemistry, and solutions. The mathematical solution of chemical problems will be emphasized. This course must be taken concurrently with
CHEMISTRY

Chemistry 105a.* Three hours of lecture per week plus one hour of recitation per week at the discretion of the instructor. Three semester hours.

A student may not receive credit for both Chemistry 105 and 111.

CHEM-105a. Laboratory in General Chemistry I Staff
Laboratory work related to Chemistry 105. Experimental work may include verification of the stoichiometric relationship between reactants and products, the preparation and characterization of compounds, titrations involving neutralization and redox reactions, measurement of enthalpies of reaction, and colorimetric analysis. This course must be taken concurrently with Chemistry 105.* Three hours per week. One semester hour.

A student may not receive credit for both Chemistry 105a and 111aQ.

CHEM-106. Organic Chemistry I Dr. Hess, Dr. Tortorelli
An introduction to the study of the physical and chemical properties of both aliphatic and aromatic hydrocarbons within the context of modern structural theory. Areas emphasized are bonding, acidity and basicity in organic systems, stereochemistry, and reaction mechanisms. This course must be taken concurrently with Chemistry 106a.* Prerequisite: Chemistry 105 or 111. Three hours per week. Three semester hours.

A student may not receive credit for both Chemistry 106 and 207.

CHEM-106a. Laboratory in Organic Chemistry I Staff
Laboratory work related to Chemistry 106. Experimental work may include measurement of physical properties, study of reaction kinetics, and synthesis. Techniques employed include chromatography, distillation, extraction, infrared and UV/vis spectroscopy, and recrystallization. Primary and secondary literature sources are introduced. This course must be taken concurrently with Chemistry 106a.* Prerequisite: Chemistry 105a or 111aQ. Three hours per week. One semester hour.

A student may not receive credit for both Chemistry 106a and 207a.

CHEM-200. Topics in Chemistry Staff
A course that examines the impact of chemistry on society. Topics such as plastics, drugs, pollution, food chemistry, and forensic science are considered. Prerequisite: Chemistry 100, 105, or 111. Three hours of lecture and three hours of laboratory per week. Four semester hours.

NOTE: Chemistry 200 may not be used as elective credits in chemistry for chemistry majors or minors.

CHEM-205. Organic Chemistry II Dr. Hess
A continuation of Chemistry 106. Particular emphasis is placed on reactivity and synthesis of a variety of organic functional groups including alcohols, ethers, carbonyl compounds, and carboxylic acids. Other topics include macromolecules, carbohydrates, and NMR spectroscopy. This course must be taken concurrently with Chemistry 205a.* Prerequisite: Chemistry 106 or 207. Three hours per week. Three semester hours.

A student may not receive credit for both Chemistry 205 and 208.

CHEM-205a. Laboratory in Organic Chemistry II Staff
Laboratory work related to Chemistry 205; a combination of 106a. This course must be taken concurrently with Chemistry 205.* Prerequisite: Chemistry 106a or 207a. Three hours per week. One semester hour.

A student may not receive credit for both Chemistry 205a and 208a.

CHEM-206. General Chemistry II: Analysis Staff
A study of kinetics, equilibria, and acid-base chemistry. Sample manipulation techniques and both wet and instrumental methods of analysis will be introduced. This course must be taken concurrently with Chemistry 206a.* Prerequisite: Chemistry 105 or 111. Three hours per week. Three semester hours.

A student may not receive credit for both Chemistry 112 and 206.

*A student who repeats this need not also repeat its companion lecture or lab.
CHEM-206aQ. Laboratory in General Chemistry II  
Staff  
Laboratory work related to Chemistry 206. Special emphasis will be placed on sample manipulation, control of solution characteristics, quantitative analysis, and the development of skills in wet and instrumental analysis methods. Literature sources used in analytical chemistry will be introduced. This course must be taken concurrently with Chemistry 206. Prerequisite: Chemistry 105a or 111aQ. Three hours per week. One semester hour.

A student may not receive credit for both Chemistry 112a and 206aQ.

CHEM-209. Computers in Chemistry  
Staff  
Introduction to on-line information systems, internet resources, spreadsheets, scientific graphing software, and chemical structure drawing programs. Prerequisite: Chemistry 106 or 207. Corequisite: Chemistry 205 or 208 (or previously). One hour per week. One semester hour.

CHEM-211. Spectral Interpretation  
Staff  
Structural elucidation of organic compounds through interpretation of spectral information obtained from mass spectrometry, UV/vis, IR, and NMR spectroscopy. Prerequisite: Chemistry 106 or 207. Corequisite: Chemistry 205 or 208 (or previously). One hour per week. One semester hour.

CHEM-222. Inorganic Chemistry  
Dr. Price  
A systematic survey of the descriptive chemistry of the main group elements with an emphasis on periodicity and nomenclature. The chemistry of the transition metals and nuclear chemistry will be discussed. Primary and secondary literature sources will be used. Corequisite: Chemistry 112 or 206 (or previously). Two hours per week. Two semester hours.

CHEM-309. Physical Chemistry I  
Dr. Gaede  
A study of chemical thermodynamics and statistical mechanics. Prerequisites: Chemistry 112 or 206; Math 112; Physics 112. Strongly recommended: Math 211. Three hours per week. Three semester hours.

CHEM-309a. Laboratory in Physical Chemistry I  
Dr. Gaede  
Laboratory work related to Chemistry 309, emphasizing computer and writing skills. An introduction to the primary and secondary literature sources of physical chemistry. Prerequisites: Chemistry 209 (or concurrently) and 309 (or concurrently). Three hours per week. One semester hour.

CHEM-310. Physical Chemistry II  
Dr. Gaede  
An in-depth study of kinetics, quantum mechanics, and spectroscopy. Prerequisite: Chemistry 309. Three hours per week. Three semester hours.

CHEM-310a. Laboratory in Physical Chemistry II  
Dr. Gaede  
Laboratory work related to Chemistry 310, emphasizing the use of the literature. Prerequisites: Chemistry 309a and 310 (or concurrently). Three hours per week. One semester hour.

CHEM-313. Instrumental Analysis  
Dr. Williamsen  
A study of the theory and application of spectroscopic, separation, and electrochemical instrumental techniques. A general framework for understanding instrumental methods will be presented. Prerequisite: Chemistry 112 or 206. Recommended: Chemistry 211 and Physics 112. Four hours per week. Four semester hours.

A student who has received credit for both Chemistry 306 and 311 may not receive credit for Chemistry 313.

CHEM-314a. Laboratory in Advanced Analytical Chemistry  
Dr. Williamsen  
Laboratory work related to advanced techniques of analysis. The operation of common instrumentation, demonstrations of the effects of instrumental settings on acquired data, and application of statistical methods will be emphasized. Prerequisites: Chemistry 112a or 206a, and 313. One hour of lecture and three hours of laboratory per week. Two semester hours.

*A student who repeats this need not also repeat its companion lecture or lab.
CHEMISTRY

CHEM-350. Selected Topics in Chemistry Staff
A course, offered periodically, dealing with topics of current interest to faculty and students. Prerequisites: Chemistry 205 or 208, and 112 or 206, and permission of the instructor. Three hours per week. Three semester hours.

CHEM-381. Internship Dr. Tortorelli
A laboratory project in cooperation with industry at an industrial site involving a minimum of 10 hours per week for one semester or four weeks of full-time work. Before beginning the internship, the student must submit a proposal to be approved by both the chemistry faculty and the on-site supervisor. Upon completion of the work, written and oral reports must be presented to the department. Prerequisites: Chemistry 205a or 208a, and 112a or 206a. Three semester hours.

CHEM-390. Summer Research in Chemistry Staff
Intensive investigation in an area of chemistry with a minimum of 240 hours of full-time laboratory and library work. Prerequisites: Chemistry 205a or 208a, and 112a or 206a, and written permission of the research adviser. Three semester hours.

CHEM-391. Introduction to Research Staff
Laboratory and library work, under the direction of a faculty member, and designed to introduce the student to fundamental research procedures and data interpretation in the context of a research project. Prerequisites: Chemistry 205a or 208a, and 112a or 206a, and permission of the research adviser. Three hours of laboratory per week. One semester hour.

CHEM-392. Introduction to Research Staff
Content as in Chemistry 391. Prerequisites: Chemistry 205a or 208a, and 112a or 206a, and permission of the research adviser. Three hours of laboratory per week. One semester hour.

CHEM-400W. Seminar Staff
Exercises in oral and written presentation of scientific material. This course culminates with the composition and presentation of a review paper. Prerequisites: Chemistry 205 or 208, 204 or 222, 309 (or concurrently), 306 or 311 or 313 (or concurrently); and English 100. Three hours per week. Three semester hours.

CHEM-401. Advanced Inorganic Chemistry Dr. Price
A study of bonding theories, point groups, structure, stereochemistry, and reactivity of inorganic and organometallic materials with an emphasis on transition metal compounds. Other topics include superconductivity, catalysis, and bioinorganic chemistry. This course must be taken concurrently with Chemistry 401a.* Prerequisites: Chemistry 222 (or permission of the instructor), 309 (or concurrently), 306 or 311 or 313, and 306a, 311a, or 314a. Three hours per week. Three semester hours.

CHEM-401a. Laboratory in Advanced Inorganic Chemistry Dr. Price
Synthesis and characterization of inorganic and organometallic compounds using advanced techniques. Corequisite: Chemistry 401. Three hours per week. One semester hour.

CHEM-408. Materials Science Dr. Schultz, Dr. Bashus
Application of chemical, physical, and thermodynamic principles to the understanding of materials. Materials considered include metals, polymers, ceramics, composites, and semiconductors (the same course as Physics 408). Offered spring semester of even-numbered years (alters with Chemistry 412). Prerequisites: Chemistry 112 or 206 and Physics 212, or Chemistry 310 (or concurrently). Three hours per week. Three semester hours.

CHEM-412. Polymer Chemistry Dr. Schultz
A study of the synthesis, structure, and properties of polymers. Topics include polymerization methods and kinetics, molecular weight averages and distributions, and solution properties. Offered spring semester of odd-numbered years (alters with Chemistry 408). Prerequisites: Chemistry 205 or 208, 309, and 310 (or concurrently). Two hours per week. Two semester hours.

CHEM-491. Research/Independent Work Staff
Independent laboratory and library investigation in chemistry, with oral progress reports and a research paper presented to the department faculty. At the time of registration, written

*A student who repeats this need not also repeat its companion lecture or lab.
consent of the research adviser and the department is required. Prerequisites (or concurrently): Chemistry 205a or 208a, 112a or 206a, and 306a or 309a or 311a or 314a. One hour of lecture and nine hours of laboratory per week. Four semester hours.

CHEM-492W. Research/Independent Work Staff
A continuation of Chemistry 491, with a final seminar and thesis describing research work. Emphasis is placed on oral and written presentation of scientific research, as well as advanced laboratory techniques. Prerequisites: Chemistry 491; English 100. One hour of lecture and nine hours of laboratory per week. Four semester hours.

Departmental Honors in Chemistry
Students successfully completing Chemistry 491; 492W may be awarded honors in chemistry, but no additional credit will be granted. Description of the honors program, including qualifications, is detailed in this catalog.

CLASSICS
Professor Wickersham (Chair).

Courses in the department of classics are intended to develop reading ability in ancient Greek and Latin and to introduce the student to the major forms and themes of classical literature and culture. They enhance general linguistic facility and give the student direct access to the original documents and foundations of Western civilization.

Requirements for Majors
General Coursework. Majors must take at least 16 semester hours in Greek, and 16 semester hours in Latin above Latin 100. Majors must include among their electives eight semester hours in some other language and also elect at least 12 semester hours from the following major-related courses: Classics 321, 326; English 214; Anthropology 100; History 101, 102, 251; Art 311–313; Philosophy 101, 102, 103, 301; Interdivisional Studies 101, 102. Other courses not mentioned may be counted as major-related with the approval of the department.

Oral Presentation. This requirement may be satisfied by a special assignment in any ordinary course in the department at the 300 or 400 level. When registering, the candidate shall announce his or her intention to fulfill this requirement in said course; this intention shall be recorded by a letter written by the candidate and placed in the candidate’s file. The candidate shall consult with the instructor and arrange that one class-hour in the 12th week of the course be devoted to the oral presentation and discussion thereof. The presentation must be no less than 15 and no more than 20 minutes in length. The instructor will evaluate the presentation with attention to content and delivery. The evaluation shall show whether or not the candidate has satisfied the requirement; the instructor shall record the result by writing a letter to be placed in the candidate’s file, with a copy thereof to be given to the candidate.

Writing-Intensive Course. This requirement may be satisfied by the following courses: Greek 401W, 491W; Latin 401W, 491W. The 491W
CLASSICS

courses will be for those majors who have registered for departmental honors, and they will feature the development of secondary bibliography on the subject of the thesis. All of these writing-intensive courses will begin with a study of the invention and evolution of prose-style in antiquity, with modern parallels. They will then study examples of the forms of writing modernly practiced in classical studies: translations, brief reviews, longer reviews/discussions, short essays, commentaries, books. Attention in class will be directed towards structure, cogency, and style. Candidates will write original examples in these forms, the amount of formal writing to be no less than 10 pages in the final version. There will also be informal writing in the form of a journal, kept in a composition book to be filled up with daily entries, as well as in-class exercises. The formal writing will be shared with the class, and some of the informal writing as well. English 100 is prerequisite.

Capstone Experience. This requirement may be fulfilled by the seminar courses for the Spring semester of the senior year: Greek 402, 492; Latin 402, 492. The 492 courses will be for those majors who are writing an honors thesis, 402 for others. In either case the candidate will be required to execute a substantial project which must combine a topic in Greek or Roman antiquity with the concerns of at least one other department of the College. Examples: ancient historiography, ancient science (biology, astronomy, physics, chemistry), current literary theory and ancient literature, classical archaeology, comparative linguistics. This approach creates a special subject in the major while also integrating the major with the rest of liberal education.

Those intending to teach Greek or Latin in the public schools are urged to acquire state certification through the department of education. Students and their advisers should consult the booklet, Ursinus College Teacher Education Programs.

Requirements for Minors

A minor concentration in Greek consists of 16 credits in Greek and four credits in classics-in-translation (Classics 321, 326).

A minor concentration in Latin consists of 16 credits in Latin, and four credits in classics-in-translation (Classics 321, 326).

CLASSICS

Ancient texts used in the following two courses are in English translation.

*CLAS–321. Topics in Classics  
Dr. Wickersham
A thorough study of one area of ancient Greek or Roman experience, thought, and literature. Reading in translation of comedy or epic or tragedy. Prerequisites: English 100; Liberal Studies 100. Three hours per week. Four semester hours.

CLAS–326. Mythology  
Dr. Wickersham
Illustrated lectures survey the tales of gods and heroes in Greek legend, from the creation of the world to the end of the age of myth—the foundations of Western literature. Interpretive approaches are also studied.
Prerequisites: English 100; Liberal Studies 100. Three hours per week. Four semester hours.

*This course is not offered in 1997-1998.
GREEK

GRK–101. Elementary Greek  
Dr. Wickersham
Thorough study of ancient Greek grammar and syntax. Practice in reading and composition. Emphasis on development of reading ability. Forms a unit with Greek 102. Four hours per week. Four semester hours.

GRK–102. Elementary Greek  
Dr. Wickersham
Continuation of Greek 101. Study of grammar completed and replaced by reading of a whole work, such as a play of Euripides, Xenophon’s *Anabasis I*, or a book of the New Testament. Four hours per week. Four semester hours.

GRK–201. Athens in the Late Fifth Century  
Dr. Wickersham
In the twilight of the Golden Age, political and intellectual changes bring stress. A variety of readings related to the search for justice and the affair of Socrates. Four hours per week. Four semester hours.

GRK–202. Hellenic Panorama  
Dr. Wickersham
Greek has the longest recorded history of any living language. This course presents a variety of readings spanning the millennia from Homer to the present. Four hours per week. Four semester hours.

The following advanced courses will be given according to students’ needs and interests; consult with the department concerning available offerings.

GRK–311. The Epic  
Dr. Wickersham
Large excerpts from the *Iliad* or *Odyssey*. Study of Homer’s poetry and thought. Introduction to history of the Greek language, with special attention to phonology. Foundations of Western literature. Prerequisites: Greek 202 or equivalent. Three hours per week. Four semester hours.

GRK–312. Historical Writers  
Dr. Wickersham
Large excerpts from Herodotus’ *Persian Wars*, Thucydides’ *Peloponnesian War*, or Xenophon’s *Greek History*. Three hours per week. Four semester hours.

GRK–314. Drama  
Dr. Wickersham
Reading and study of Sophocles’ *Oedipus the King*, plus one other tragedy of Sophocles, Aeschylus, or Euripides, or a comedy by Aristophanes or Menander. Three hours per week. Four semester hours.

Dr. Wickersham
At least one book of this important record. Three hours per week. Four semester hours.

GRK–317. Selected Topics  
Dr. Wickersham
Content variable, concentration on author, period, genre and the like. Three hours per week. Four semester hours.

LATIN

LAT–101. Elementary Latin  
Dr. Wickersham
Instant production of reading ability, with ever-growing development of vocabulary and style. Forms unit with Latin 102. Four hours per week. Four semester hours.
LAT-102. Elementary Latin
Dr. Wickersham
Review of elementary Latin. Readings depict life in the High Empire. Four hours per week. Four semester hours.

LAT-201. From Aeneas to Hannibal
Dr. Wickersham
Readings present legends and history of Roman origins from the Trojan War through the first war with Carthage. Four hours per week. Four semester hours.

Dr. Wickersham
Readings from Livy, Sallust, Eutropius, Cicero: Rome gains the world while endangering its own soul. Four hours per week. Four semester hours.

The sequences Latin 101-102 or 201-202 are recommended for fulfilling the foreign language requirement.

The following advanced courses will be given according to students' needs and interests; consult with the department concerning available offerings.

LAT-302. Introduction to Latin Poetry
Dr. Wickersham
Poems of Catullus, Ovid, Tibullus, Propertius. Stress on developing sensitivity and canons of appreciation. Three hours per week. Four semester hours.

LAT-303. Historical Writers
Dr. Wickersham
Caesar, Suetonius, or Tacitus. Three hours per week. Four semester hours.

LAT-304. The Roman Revolution
Dr. Wickersham
Speeches and letters of Cicero, and other contemporary documents. Three hours per week. Four semester hours.

LAT-305. Vergil's Aeneid
Dr. Wickersham
Study of the epic that defined Roman destiny and made empire acceptable to Europe. Three hours per week. Four semester hours.

LAT-307. Selected Topics
Dr. Wickersham
Content variable, concentration on author, period, genre and the like. Three hours per week. Four semester hours.

LAT-308. Selected Topics
Dr. Wickersham
Three hours per week. Four semester hours.

LAT-401W. Seminar
Dr. Wickersham
Seminars of changing content, for study of special topics, authors, genres combined with study and practice in writing. Prerequisite: English 100. Three hours per week. Four semester hours.

LAT-402. Seminar
Dr. Wickersham
Seminars of changing content, for study of special topics, authors, genres. Three hours per week. Four semester hours.

LAT-491W. Research/Independent Work
Dr. Wickersham
This course is open to candidates for departmental honors and to other students with the permission of the department chairperson. Concentration in the topic of the honors thesis, with study and practice of writing. Prerequisite: English 100. Four semester hours.

LAT-492. Research/Independent Work
Dr. Wickersham
A continuation of Latin 491. Prerequisite: Latin 491. Four semester hours.
DEPARTMENT OF COMMUNICATION STUDIES AND THEATRE

Professors Henry, Miller (Chair); Associate Professor Czubaroff; Lecturers Brand, Castells-Talens, Cristiano, Goldberg, Schwartz.

The Communication Studies and Theatre Department, drawing upon humanistic and social science traditions, focuses on the structure, function, criticism and creation of messages. Evolving from the spoken word, communication encompasses study of various forms of oral and written communication, visual images, and the mass media. Students examine communication processes in interpersonal, group, mass, and creative contexts. The curriculum includes integration of theory and practice and an introduction to quantitative and qualitative communication research methods. Communication Studies and Theatre prepares students for careers in the communication and information industries and is of importance to students interested in business, law, politics, human relations, and education. The department curriculum also provides a strong foundation for students planning graduate work in communication.

Requirements for The Major

A major in Communication Studies and Theatre, consists of 39 semester hours of credit, including three foundation courses (two selected from CST 105, 110, and 111) and 200W; CST 201, one applied CST course selected from CST 207-277; two advanced studies courses selected from CST 311-372; Senior Seminar (CST 450W), and at least two additional CST courses. Students may fulfill the senior seminar requirement (CST 450W) with CST 491 and 492W. Majors are strongly encouraged to complete an internship (CST 381A or B) and are required to complete a minor in another field of study. Students are encouraged to take Math 241Q to fulfill part of the college science and mathematics requirement.

DEPARTMENT CURRICULUM:

Foundation Courses: CST 105, 110, 111, 200W

Applied Communication Courses: CST 201, 207, 210, 211, 222, 240, 247, 260, 275, 277

Advanced Studies Courses: CST 311, 325, 352, 355, 358, 362, 370, 371, 372

Senior Seminar: CST 450W
COMMUNICATION STUDIES AND THEATRE

Practica: CST 001-008, 381A, 381B Directed Research: 411, 412, 491, 492W

Requirements for the minor in Communication Studies:
A minor in communication studies consists of 20 credits, including CST 105, 110, and eight hours at the 300 level or above.

Requirements for the minor in Theatre: A minor concentration in theatre consists of 21 credits, including CST 111, 277, one semester of CST 001-008, and three additional courses selected from CST 211, 222, 311, 372, 411, 412. A course in dramatic literature or studies (approved by the department) may be included in the minor. The theatre minor supports those seeking teaching certification, planning graduate study in the arts, and arts management.

Majors and minors in Communication Studies and Theatre are expected to participate actively in and to assume leadership roles with campus organizations associated with the field of communication. These include The Grizzly, the campus newspaper; WYOU, the campus radio station; proTheatre, the campus drama group; and the Debate Society. Those who are interested in teaching should consult the education department booklet, Ursinus College Teacher Education Programs.

Course Descriptions

CST–001–008. proTheatre Production  
Dr. Henry  
A learning experience in which students assume responsibility for primary staff positions on major campus productions. Because production requirements differ, these may include assistant to the director, stage manager, choreographer, treasurer, public relations officer, properties manager. Prerequisites: CST 111, participation in a previous production, and permission of the instructor. One semester hour.

CST–105. Mass Media and Society  
Dr. Miller, Staff  
A critical and historical survey of the mass-media industries in the United States. Print, film, radio, television, and the new communication technologies are examined with regard to organization, content, control, economics, and effects on their audiences. Specific attention is given to mass-media research methods and media effects on the individual and on audiences. Three hours per week. Four semester hours.

Students who have received credit for CA 203 may not receive credit for CST 105.

CST–110. Interpersonal Communication  
Dr. Czubaroff, Dr. Henry, Staff  
A study of communication processes involved in the individual's development of identity, presentation of self, and participation in interpersonal relationships and informal groups. Three hours per week. Four semester hours.

Students who have received credit for CA 219 may not receive credit for CST 110.

CST–111. Introduction to Theatre  
Dr. Henry  
A study of the art of theatre through an examination of varieties of theatre space, literary genres, contributions of actors, directors, and designers, and the nature of the audience. Four hours per week. Four semester hours.
Students who have received credit for CA 111 may not receive credit for CST 111.

CST-200W. Communication Theory
Dr. Czubaroff
An exploration of the concepts and models of communication common to a wide range of communication contexts, including interpersonal, group, organizational, and mass. Students are introduced to theories, research methods, and writing conventions common to the field. Prerequisites: Two from CST 105, 110, 111 (CA 111, 203, 219) one of which may be taken concurrently with CST 200W. Three hours per week. Four semester hours.

Students who have received credit for CA 270W may not receive credit for CST 200W.

CST-201. Public Speaking
Dr. Czubaroff, Dr. Henry, Staff
The theory and practice of public speaking. The course includes an introduction to listening, communicative thinking, and speech analysis. Three hours per week. Three semester hours.

Students who have received credit for CA 100 may not receive credit for CST 201.

CST-207. Journalism I: Writing for the Print Media
Staff
An introduction to methods of factual reporting, reviewing, interviewing, and editing of journalistic material. Students are expected to enter the course with basic word-processing skills. Classes are conducted in the college computer lab. Prerequisite Eng 100, CST 105 (or CA 203) or permission of instructor. Four hours per week. Four semester hours.

Students who have received credit for CA 207 may not receive credit for CST 207.

CST-210. Video Communication I
Dr. Miller
An overview of the principles and techniques of studio television production. Emphasis is placed on translation of ideas into a visual format, program conceptualization, preproduction planning, script writing, critical analysis of the visual image and peer review of programs. Prerequisite: CST 105 or CA 203. Three hours of lecture and two hours of lab per week. Four semester hours.

Students who have received credit for CA 210 may not receive credit for CST 210.

CST-211. Shakespeare on Stage
Dr. Henry
A comparative study of productions and interpretations of a selection of Shakespeare plays through textual examination, oral presentation, and critical viewing. This course is also listed as English 211. Prerequisite: English 100. Three hours per week. Four semester hours.

Students who have received credit for CA 211 may not receive credit for CST 211.

CST-222. Oral Interpretation
Dr. Henry
An introduction to the art of performing literature. Students examine the components of phonetics and voice production, verbal and nonverbal behavior, the relationship of interpreter and audience, and techniques of communicating meaning in solo and group performance. Prerequisite: CST 111 (or CA 111) or permission of the instructor. Four hours per week. Four semester hours.

Students who have received credit for CA 222 may not receive credit for CST 222.

CST-240. Video Communication II
Dr. Miller
An overview of the principles and techniques of single camera, electronic field production. Emphasis is placed on program conceptualization, pre-production planning, single-camera script development and post-production techniques including editing, creation of digital effects, and audio mixing. Three hours of lecture and two hours of lab per week. Four semester hours.

Students who have received credit for CA 309 may not receive credit for CST 240.

CST-247. Journalism II: Writing for the Electronic Media
Dr. Miller
The principles and techniques of writing and editing for the electronic media. Research techniques, writing conventions, interviewing techniques, and presentation styles are included. Prerequisite CST 105 (or CA 203). Three hours of lecture and two hours of lab per week. Four semester hours.
COMMUNICATION STUDIES AND THEATRE

CST-260. Video Communication III Dr. Miller
An advanced level production course for students interested in developing additional expertise in digital editing and multi-media production techniques. Emphasis will be placed on newer computer-based technologies in use within the field. Prerequisite: CST 210 or CST 240 (or CA 210 or CA 309). Three hours of lecture and two hours of lab per week. Four semester hours.

CST-275. Argumentation and Debate Dr. Czubaroff
A study of argumentation principles and processes with an emphasis on applying this knowledge in debate advocacy situations. At the end of the semester students plan and participate in a debate open to the college community. Prerequisite: CST 201 (or CA 100) or permission of instructor. Three hours per week. Four semester hours.

Students who have received credit for CA 345 may not receive credit for CST 275.

CST-277. Acting Dr. Henry
An introduction to elementary acting techniques. Students participate in acting exercises, improvisation, and scene study. Prerequisites: CST 111, 211, or 222, (or CA 111, 211, or 222) or permission of the instructor. Four hours per week. Four semester hours.

Students who have received credit for CA 301 may not receive credit for CST 277.

CST-280. Film Studies Dr. Dole
A study of films as texts, including an introduction to the vocabulary of the medium. Topics change yearly. This course is also listed as English 280. Prerequisite: English 100. Four hours per week. Four semester hours.

Students who have received credit for CA 225 or ENG 225 may not receive credit for CST 280.

CST-298. Readings in Communication Studies and Theatre Staff
Individual student-initiated study within the field on a selected topic culminating in the preparation of a critical bibliography of the works read, or other final product as determined by the faculty member supervising the readings. Prerequisites: CST 200W or CA 270W, major or minor in communication studies and theatre, a written project proposal, and permission of a communication studies faculty member to serve as advisor. Offered in the fall semester. One semester hour.

Students who have received credit for CA 298 may not receive credit for CST 298.

CST-299. Readings in Communication Studies and Theatre Staff
Content and prerequisites are the same as CST 298. Offered in the spring semester. One semester hour.

Students who have received credit for CA 299 may not receive credit for CST 299.

CST-311. History of Theatre Dr. Henry
A survey of the development of theatre, its literature, architecture, and artists, from the Greeks to the 20th century. Prerequisites: Junior standing, CST 111 (or CA 111), and one of the following: CST 211, 222, 277; or permission of the instructor. Three hours per week. Four semester hours.

Students who have received credit for CA 311 may not receive credit for CST 311.

CST-325. Group Communication Dr. Czubaroff
A study of communication processes in group settings. Emphasis on principles of leadership, teamwork, problem solving, conflict, and negotiation. Students work with observational methodologies. Prerequisite: CST 110 or CA 219. Three hours per week. Four semester hours.

Students who have received credit for CA 325 may not receive credit for CST 325.

CST-352. Organizational Communication Staff
A study of communication processes in organizational settings. Topics include formal and informal channels of communication, power structures, organizational effectiveness, and communication with a variety of publics. Field research is required. Prerequisite: CST 110 or CA 219. Three hours per week. Four semester hours.
Students who have received credit for CA 352 may not receive credit for CST 352.

CST-355. Media, Culture, and New Communication Technologies  
Dr. Miller

Examines the social, cultural, and political impact of new communication and information technologies on public and private communication. Traditional forms of mediated communication are examined historically for their role in shaping our society. Newer communication technologies are analyzed for their impact on and ability to transform contemporary culture. Prerequisite: CST 105 or CA 203. Three hours per week. Four semester hours.

CST-358. Persuasive Communication  
Dr. Czubrowoff

A study of the basic concepts and principles of rhetoric. Case studies of persuasion are drawn from interpersonal, group, and mass media communication contexts. Students engage in rhetorical analysis and criticism. Prerequisite: CST 105 or 110. Three hours per week. Four semester hours.

Students who have received credit for CA 358 may not receive credit for CST 358.

CST-362. Media Criticism  
Dr. Czubrowoff

A critical study of mass-mediated messages, including the issues of gender, ethnicity, violence, and ideology. Prerequisite: CST 105 or CA 203. Three hours per week. Four semester hours.

Students who have received credit for CA 362 may not receive credit for CST 362.

CST-370. Special Topics in Mass Communication  
Staff

This course will focus on a specific topic within mass communications not covered in the other courses in the curriculum. Prerequisite: CST 105 or CA 203, or permission of the instructor. Three hours per week. Four semester hours.

Students who have received credit for CA 370 may not receive credit for CST 370.

CST-371. Special Topics in Human Communication and Rhetoric  
Staff

This course will focus on a specific topic within human communication and rhetoric not covered in the other courses in the curriculum. Prerequisite: CST 110 or CST 219 or permission of the instructor. Three hours per week. Four semester hours.

CST-372. Special Topics in Theatre  
Staff

This course will focus on a specific topic within theatre not covered in the other courses in the curriculum. Prerequisite: CST 111 or CA 111 or permission of the instructor. Three hours per week. Four semester hours.

CST-381A. Internship  
Dr. Miller

An off-campus work experience under the supervision of a faculty advisor and an on-site supervisor. Includes periodic meetings with the faculty adviser and completion of an approved research project. Prerequisite: major or minor in CST and three courses completed in the department, Junior standing, and approval of a faculty internship adviser. Must complete a minimum of 112 hours (or 8 to 10 hours per week). Three semester hours.

Students who have received credit for CA 381 may not receive credit for CST 381A.

CST-381B. Internship  
Dr. Miller

An off-campus work experience under the supervision of a faculty advisor and an on-site supervisor. Includes periodic meetings with the faculty adviser and completion of an approved research project. Prerequisite: major or minor in CST and three courses completed in the department, Junior standing, and approval of a faculty internship adviser. Must complete a minimum of 168 hours (or 12-14 hours per week). Four semester hours.

Students who have received credit for CA 381 may not receive credit for CST 381B.

NOTE: Students may take only CST 381A or CST 381B for college credit.
COMMUNICATION STUDIES AND THEATRE/EAST ASIAN STUDIES

**CST-411. Directed Studies in Communication and Theatre**

**Staff**

Advanced individual work on a project related to the study of communication or theatre.

Prerequisites: eight credits of 300-400 level course work in communication studies and theatre, demonstrated competence in the specific area of study, a written project proposal, and permission of a department faculty member who will serve as project adviser. Offered in fall term. **Four semester hours.**

Students who have received credit for CA 411 may not receive credit for CST 411.

**CST-412. Directed Studies in Communication and Theatre**

**Staff**

Advanced individual work on a project related to the study of communication or theatre.

Prerequisites: eight credits of 300-400 level course work in communication studies and theatre, demonstrated competence in the specific area of study, a written project proposal, and permission of a department faculty member who will serve as project adviser. Offered in spring term. **Four semester hours.**

Students who have received credit for CA 412 may not receive credit for CST 412.

**CST-450W. Senior Seminar**

**Dr. Miller, Dr. Czubaroff**

The integrated conclusion of the departmental curriculum with emphasis on research and writing in the communication field.

Prerequisites: English 100, CST 200W (or CA 270W); CST 201 (or CA 100); two advanced studies courses (CST 311 to CST 372 or CA 311 to CA 370). Three hours per week. **Four semester hours.**

Students who have received credit for CA 444W, CA445W, CA 447W may not receive credit for CST 450W.

**CST-491. Research/Independent Work**

**Staff**

This course is open to candidates for departmental honors and to other students with the permission of the departmental chair. **Four semester hours.**

**CST-492W. Research/Independent Work**

**Staff**

A continuation of Communication Studies and Theatre, 491. Prerequisite: CST 491. **Four semester hours.**

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**COMPUTER SCIENCE**

See Mathematics and Computer Science

**EAST ASIAN STUDIES**

Professors Clark (Coordinator) DeCatur; Associate Professor Hood; Instructor Inoue.

Acquaintance with cultures other than our own is an integral part of both a liberal education and preparation for a career in a variety of fields, including business, law, government, or teaching. The major and minor in East Asian Studies are interdisciplinary programs drawing on offerings in several departments, but emphasizing history, culture, politics, literature and language. The programs are designed to provide an introduction to the cultures of China and Japan; in reflection of Ursinus' relationship with our sister school in Tohoku Gakuin, located in Ōsendai, Japan, offerings emphasize the latter.
In addition to the courses offered on the Ursinus campus, students either majoring or minoring in East Asian Studies are encouraged to take advantage of off-campus study-abroad opportunities, including the Ursinus Summer Study in Japan (EAS–301) and the Semester in Japan (EAS–399), both offered in conjunction with Tohoku Gakuin University in Sendai, Japan. Students seeking intensive language experience should consult with the language faculty about appropriate overseas or summer-intensive programs.

**Teacher certification:** Ursinus is one of only two institutions in Pennsylvania to offer certification for secondary-school teaching in Japanese language. For requirements, candidates should consult the *Ursinus College Teacher Education Programs* booklet prepared by the Education Department as well as their Japanese language instructor. Certification requires passing a language competency examination.

**Requirements for Majors:** A major in East Asian Studies consists of 1) a minimum of 12 hours of Japanese language study beyond the 100 level (NOTE: EAS majors are encouraged to complete all or some of this requirement either through study abroad or summer-intensive programs, including the college-sponsored Semester Study in Japan program [EAS–399]; regarding major credit, see “note” below); 2) 12 credits from History 241, 243; Politics 346, 347; or English 223, 224; 3) a capstone experience either in an approved seminar in History, Politics, or Modern Language, EAS–400W, or EAS–491W/492W; and 4) 12 additional credits from the following courses (NOTE: at least eight credits must be at the 300-level): Anthropology-200/206 (taken in conjunction), 351, 371, 372 (NOTE: except for 200/206, Anthropology courses must have the permission of the East Asian Studies coordinator), EAS–299, 301, 314, 398, 399, English 223, 224, History 241, 243, 343, 344, 361, Politics 346, 347, 353, and Philosophy and Religion 211.

**Note:** For the purposes of the EAS major, students who complete EAS 398-399 will receive 13 credits toward #4 above. The appropriate language credit for off-campus study will be determined by Ursinus faculty.

**Requirements for Minors:** A minor concentration in East Asian Studies consists of 20 credits from courses dealing with East Asia. Twelve credits must come from History 241, 243; Politics 346, 347; or English 223, 224. The remaining credits must come from the following: EAS–299, 301, 314, 398, 399; Japanese 100, 111, 112, 211, 212, 301, 328; History 241, 243, 343, 344, 361; Philosophy and Religion 211; or Politics 346, 347, 353.
EAST ASIAN STUDIES/ECONOMICS AND BUSINESS ADMINISTRATION

EAS-299. Topics in East Asian Studies Staff
An interdisciplinary topics course focusing on aspects of East Asian culture, the specific topic to be chosen by the instructor. To be taught in English by guest faculty. Four hours per week. Four semester hours.

EAS-301. Summer Study in Japan Staff
A five-week course offered in collaboration with Tohoku Gakuin University in Sendai, Japan. This interdisciplinary course comprises three weeks of classroom instruction in Sendai on selected topics of Japanese culture and society, plus an introduction to conversational Japanese language, followed by a two-week tour of Japan. Instruction is in English and is provided by the faculty of Tohoku Gakuin University as well as members of the Ursinus faculty. Offered annually mid-May through June. Not open to incoming freshmen. Four semester hours.

EAS-314. Japanese Culture and Society Staff
Understanding contemporary Japanese society through the traditional arts, music, theater, education and social structures. Taught in English. Four hours per week. Four semester hours.

EAS-398. Study in Japan Pre-Departure Program Staff
A introduction to basic themes of Japanese history, culture, society. This is a required course for all Ursinus students participating in either EAS-399, Semester in Japan, or EAS-301, Summer Study in Japan. Enrollment by permission of the instructor. The course meets 75 minutes/week for six weeks after spring break. One semester hour.

EAS-399. Semester in Japan Staff
Ursinus College has a long-standing tradition of exchange programs with Tohoku Gakuin university, our sister university in Sendai, Japan. The fall semester exchange program provides Ursinus students with the opportunity to spend the fall semester at Tohoku Gakuin. In addition to intensive Japanese language training, classes are offered in a variety of topics. Except for the language classes, courses are taught in English. The program is open to all majors, Admission is competitive. NOTE: Grades (Pass/Fail) earned in the Semester in Japan program will not count in the student’s cumulative GPA at Ursinus. Prerequisite: EAS-398 and two semesters of Japanese language. Fifteen semester hours.

EAS-400W. Research in East Asian Studies Staff
A capstone course for East Asian Studies majors only, involving a supervised independent research project and an oral presentation to EAS faculty. Prior approval of the East Asian Studies coordinator and supervising faculty required. Four semester hours.

EAS-491W. Research/Independent Work Staff
This course is open to candidates for honors in East Asian Studies and to other students with the permission of the East Asian Studies coordinator. Four semester hours.

EAS-492W. Research/Independent Work Staff
A continuation of EAS-491W. Prerequisite: 491W. Four semester hours.

ECONOMICS AND BUSINESS ADMINISTRATION
Professor, Pilgrim; Associate Professors Bowers, Economopoulos, Harris (Interim Chair), O’Neill.

The work in the economics and business administration department is designed to give (1) knowledge of the structure and functioning of our global economy; (2) an exploratory study of business decision making within the context of a global economy; (3) knowledge of the philosophy and methods, including the use of the computer, in economics as a policy science and in business policy decisions; (4) a suitable background in economics and business administration for those wishing to enter
accounting, business, economic and business research, government, international affairs, law and graduate school.

Requirements for Majors
All students majoring in the department must complete a minimum of 36 semester hours in the department including EcBA 100, 105, 251, 252 and 305. Students must select a track for specialization based on their choice of educational and vocational interest. Electives and a capstone experience appropriate to the chosen track fulfill the remaining semester hours. In addition, majors must take Math 105 (or 111).

I. Economics Track
This track is recommended for students wishing to study economics as a social science or are interested in graduate study in economics or law. Electives must be chosen from EcBA 221, 306, 308, 309, 313, 314, 316, 319 and 328. The capstone experience is fulfilled by 451W or 452W or 463W. Students planning graduate study in economics are recommended to take 463W, as well as Math 112, 214 and 235.

II. Business Track
This track is recommended for students preparing for a career in business or planning to attend graduate school in business administration. Students must take EcBA 218, 306, 307, a 300-level elective chosen from 308, 309, 313, 314, 316, 319 and 328, and either 405W or 437W or 451W. Additional accounting courses, EcBA 203 and 204, and Internship Seminar, EcBA 481 are highly recommended.

III. Accounting Track
This track is designed for students interested in accountancy and wishing to be eligible to take the Certified Public Accountants examination. Students must take EcBA 203, 204, 301, 302, 303, 304 and either 405W or 437W or 451W.

IV. Business, Economics and Accounting Research Track
A unique program emphasizing the combined study of business, economics, accounting, research techniques and computer software skills of modern consulting firms and research/planning departments in both private and public enterprises. Strong students are selected for the program and given individualized attention in internship and advanced research seminars. Admission to the program, generally at the end of the sophomore year, is predicated on a 3.00 overall grade-point average in EcBA 100, 105, 251, 252 and Math 105 (or 111). Students must take EcBA 306, 306a, 307, 307a, 405W and 381 or 481 or 491.
ECONOMICS AND BUSINESS ADMINISTRATION

V. International Business and Economics
This track is for those students wishing to pursue a career in international business, consulting or law. It requires courses in a modern language coupled with EcBA courses. Students must take EcBA 306, 307, 308 and 309. EcBA 409W is the required capstone experience. Students choosing a modern language other than Japanese take 201 and 318 within the chosen language. Students choosing Japanese take 211 and 212. In addition, students must take Politics 100 and either Politics 242 or 252 or History 207. Additional courses in modern languages are also highly recommended. It is highly recommended that students live abroad at least one semester and pursue an internship that semester.

VI. Secondary School Teaching Certification
This program satisfies the Pennsylvania state requirements for secondary certification in social studies. Substantial further coursework outside of economics and education is required in order to prepare the student for actual subject matters taught in the secondary curriculum. Students who wish teaching certification should consult their departmental adviser and the chair of the department of education as early as possible, preferably at the end of the freshman year. Students and their advisers should consult the education department booklet, Ursinus College Teacher Education Programs.

Note: Students majoring in economics and business administration may not also elect minors in the department.

Requirements for Minors
A minor concentration in accounting consists of EcBA 100, 105, 203 and 204.

A minor concentration in business administration consists of EcBA 100, 105, 218, 251, 306 and 307.

A minor concentration in economics consists of EcBA 100, 105, 251 and 252 and two electives chosen from EcBA 221, 308, 309, 313, 314, 316, 319 or 328.

A minor concentration in finance consists of EcBA 100, 105, 251, 252, 306 and 316.

Note: Courses in economics, business administration and accounting in the Ursinus College Evening Division may have different prerequisites and coverage from those in the department of economics and business administration. Thus, courses in the Ursinus College Evening Division may be used for credit toward the major in economics and business administration only with the prior written permission of the chair of the department of economics and business administration.
ECBA–100. Introduction to Economics  
Staff  
An introduction to the study of the economic theories underlying the decision making behavior of consumers, firms, managers and employees. Topics also include the study of inflation, unemployment, tax policy and economic growth of the U.S. economy in the context of the world economy. Knowledge of two years of high school algebra is assumed. Four hours per week. Four semester hours.

ECBA–105. Principles of Accounting  
Mrs. Harris, Mr. Bowers  
Introduction to financial accounting concepts and procedures of sole proprietorships and corporations. Emphasis on proper analysis and reporting of financial data in the income statement, balance sheet and statement of cash flows. Spreadsheet applications of accounting problems. EcBA 100 is a prerequisite or corequisite. Three hours of lecture; two hours of laboratory per week. Four semester hours.

Mrs. Harris, Mr. Bowers  
An advanced study of accounting principles and concepts and their applications to the preparation and analysis of corporate financial statements, including the balance sheet and income statement. Emphasis on asset measurement and income determination. Special attention is given to the F.A.S.B.’s current developments. Prerequisites: EcBA 100, 105. Four hours per week. Four semester hours.

ECBA–204. Intermediate Financial Accounting-II  
Mrs. Harris, Mr. Bowers  
A continuation of EcBA 203. Topics covered include valuation of liabilities and investments, reporting of corporate equity, statement of cash flows and other selected topics. Prerequisites: EcBA 100, 203. Four hours per week. Four semester hours.

ECBA–218. Management  
Staff  
The study of the management process and concepts of modern management in the context of today’s global business environment. Includes an examination of the major functions of decision-making techniques. The course blends theory and practical applications through the use of case studies and the examination of current management problems and practices. Spreadsheet analyses are used. Proficiency in spreadsheet analysis is required. Prerequisite: EcBA 100. Three hours per week. Three semester hours.

ECBA–221. History of Economic Thought  
Staff  
An examination of the development of systematic economic thought from ancient to modern times. Ideas considered in the light of their initial and continuing relevance. Prerequisite: EcBA 100. Three hours per week. Three semester hours.

ECBA–251. Intermediate Microeconomics: Consumer and Business Behavior in a Market Economy  
Dr. O'Neill  
A study of the economic theories governing the behavior of decision makers such as consumers, producers, managers and employees. An analysis of the market outcomes resulting from the interaction of such decisions in various institutional contexts and the social desirability of these outcomes. Prerequisites: EcBA 100, 105, or permission of the instructor. Three hours of lecture; two hours of laboratory per week. Four semester hours.

Dr. Economopoulos, Dr. O'Neill  
The study of inflation, unemployment and economic growth within the context of the world economy and the determinants of the aggregate sectors of the U.S. economy. An examination of how exchange rates, Federal Reserve policies and tax policies affect investors, consumers and industry. Prerequisite: EcBA 100. Three hours of lecture; two hours of laboratory per week. Four semester hours.

ECBA–301. Accounting for Partnerships and Consolidations  
Mr. Bowers  
This course deals with: partnership problems, including distribution of profits, admission and withdrawal of partners and realization and liquidation; investments in other corporations
and problems of preparation of consolidated financial statements of parent and subsidiaries; business combination; and other topics as selected. Prerequisite: EcBA 204. Three hours per week. *Three semester hours.*

**ECBA-301a. Accounting for Partnerships and Consolidations Extension**

Mr. Bowers

Selected topics on government, fiduciary and not-for-profit accounting. This course must be taken concurrently with EcBA 301. Prerequisite: EcBA 204. One hour per week. *One semester hour.*


Mr. Bowers

Introduction to fundamentals of the Federal income tax. Major emphasis is placed on the income tax, as it pertains to individuals. Areas of discussion will include the history of the income tax, gross income, deductions to adjusted gross income, itemized and standard deductions, exemptions, tax calculations, and problems in tax planning. Certain topics regarding corporations will also be discussed. Prerequisite: EcBA 204. Three hours per week. *Three semester hours.*


Mr. Bowers

Discussions and problems comparing individual and corporate income taxes. Use of computer problems for corporate tax preparation. This course must be taken concurrently with EcBA 302. Prerequisite: EcBA 204. One hour per week. *One semester hour.*

**ECBA-303. Managerial Accounting**

Mrs. Harris

The study of the cost elements — material, labor and overhead — in job order and process cost systems. The role of cost data, including standard costs and budgets in managerial planning, cost control and decision making. Prerequisites: EcBA 204, 251, Math 241 or EcBA 305. Three hours per week. *Three semester hours.*

**ECBA-303a. Managerial Accounting Extension**

Mrs. Harris

Selected topics related to performance evaluation and managerial decision making. This course must be taken concurrently with EcBA 303. Prerequisites: EcBA 204, 251, Math 241 or EcBA 305. One hour per week to be arranged. *One semester hour.*

**ECBA-304. Theory and Practice of Auditing**

Mrs. Harris

This course deals with auditing by the independent public accountant; course study includes professional ethics, auditors’ legal liabilities arising as a result of negligence or fraud; client engagement letters; audit programs and work papers; auditing procedures and techniques for assets, liabilities, owners’ equities, revenues, and expenses appearing in the financial statements of the client. Statistical sampling and auditing with and by computer system are considered. The nature, form, and scope of audit reports and qualifications thereof are studied. Prerequisites: EcBA 204; Math 241 or EcBA 305. Three hours per week. *Three semester hours.*

**ECBA-304a. Theory and Practice of Auditing Project**

Mrs. Harris

Extensive semester project simulating an audit to illustrate the principles of audit field work, and preparation of audit workpapers. This course must be taken concurrently with EcBA 304. Prerequisites: EcBA 204; Math 241 or EcBA 305. One hour per week to be arranged. *One semester hour.*

**ECBA-305Q. Research Methods in Business, Economics, and Accounting**

Dr. O’Neill

An introduction to the primary statistical and quantitative methods used in analyzing marketing, finance, human resource, cost accounting and economic data. Topics include: hypothesis testing, the identification of trends, forecasting, and the specification, estimation and verification of multivariate statistical models. Laboratory experience with widely used statistical software. A research paper presenting an original data analysis will be required. Prerequisites: EcBA 251 and 252. Math 105 (or 111) must be either previously completed or studied concurrently. Three hours of lecture;
two hours of laboratory per week. *Four semester hours.*

**ECBA-306. Corporation Finance**  
*Dr. Economopoulos*

A study of the basic principles underlying the financing of the corporate structure. Short- and long-term financing instruments. Expansion, failure, and reorganization of the corporation. Proficiency in spreadsheet analysis is required. Prerequisites: EcBA 251; Math 241 or EcBA 305. Three hours per week. *Three semester hours.*

**ECBA-306a. Corporation Finance Project**  
*Dr. Economopoulos*

Extensive semester project based on the financial analysis and forecasting techniques used in EcBA 306. This course must be taken concurrently with EcBA 306. Prerequisites: EcBA 251; Math 241 or EcBA 305. One hour per week. *One semester hour.*

**ECBA-307. Marketing**  
*Staff*

The study of marketing as a major business function. An examination of principles and concepts of modern marketing in the context of today's business environment. The course blends theory and practical application through the use of case studies and the examination of current marketing problems and practices. Spreadsheet analyses are used. Proficiency in spreadsheet analysis is required. Prerequisite: EcBA 251. Three hours per week. *Three semester hours.*

**ECBA-307a. Marketing Research Project**  
*Staff*

Extensive semester project based on research and analytical techniques. This course must be taken concurrently with EcBA 307. Prerequisite: EcBA 251. One hour per week. *One semester hour.*

**ECBA-308. International Trade Theory and Policy**  
*Dr. O'Neill*

An analysis of world trade using the classical, neoclassical Heckscher-Ohlin and postmodern theories of trade. Extensive commercial policy analysis concerning the use of tariffs, quotas, voluntary restraints and non-tariff barriers. Ongoing discussion analyzing current trade problems, prescriptions and legislation. Offered alternate years. Prerequisites: EcBA 100, 251. Three hours per week. *Three semester hours.*

*Dr. O'Neill*

Major research paper using trade theories and policies discussed in EcBA 308. This course must be taken concurrently with EcBA 308. Prerequisites: EcBA 100, 251. One hour per week to be arranged. *One semester hour.*

**ECBA-309. International Finance Theory and Policy**  
*Dr. O'Neill*

An examination of balance of payments theory using fixed and flexible exchange rate regimes. Analysis of the effects of fiscal and monetary policies given alternative presumptions concerning capital mobility, expectations formation and international policy coordination. Systematic analysis of current international financial policies. Offered alternate years. Prerequisites: EcBA 100, 252. Three hours per week. *Three semester hours.*

*Dr. O'Neill*

Major research paper using the finance theories and policies discussed in EcBA 309. This course must be taken concurrently with EcBA 309. Prerequisites: EcBA 100, 252. One hour per week to be arranged. *One semester hour.*

**ECBA-313. Economics of the Public Sector**  
*Staff*

The economic analysis of the use of resources for public purposes by local, state and Federal governments, emphasizing the rationale for public expenditures, taxation structures and public choice mechanisms. Offered alternate years. Prerequisites: EcBA 100, 251, 252. Three hours per week. *Three semester hours.*

**ECBA-313a. Economics of the Public Sector Research**  
*Staff*

Major research paper, requiring empirical analysis, emphasizing the theory and applications addressed in EcBA 313. This course must be taken concurrently with EcBA 313. Prerequisites: EcBA 251, 252, 305. One hour per week to be arranged. *One semester hour.*
ECBA-314. Economic Development  Staff
An examination of the theories of economic growth and development and of the process and problems of economic development in the contemporary world. Offered alternate years. Prerequisites: EcBA 100 and two of the following: 251, 252, 308 or 309. Three hours per week. Three semester hours.

ECBA-314a. Economic Development Research  Staff
Major research paper, emphasizing the theory and applications addressed in EcBA 314. This course must be taken concurrently with EcBA 314. Prerequisites: EcBA 100, and two of the following: 251, 252, 308 or 309. One hour per week to be arranged. One semester hour.

ECBA-316. Economics of Money and Capital Markets  Dr. Economopoulos
A theoretical and empirical study of major financial intermediaries, their sources and uses of funds, their operative and regulatory constraints, and their impact on aggregate economic activity. Prerequisites: EcBA 100, 252. Three hours per week. Three semester hours.

ECBA-316a. Economics of Money and Capital Markets Research  Dr. Economopoulos
Major research paper, emphasizing the theory and applications addressed in EcBA 316. This course must be taken concurrently with EcBA 316. Prerequisites: EcBA 100, 252. One hour per week to be arranged. One semester hour.

ECBA-319. Labor Economics  Staff
A theoretical and empirical study of the functioning of labor markets, with emphasis on employment and compensation determination as affected by worker and firm characteristics, public policy and worker organizations. Offered alternate years. Prerequisites: EcBA 100, 251, and 252. Three hours per week. Three semester hours.

ECBA-319a. Labor Economics Research  Staff
Major research paper, requiring empirical analysis, emphasizing the theory and applications addressed in EcBA 319. This course must be taken concurrently with EcBA 319. Prerequisites: EcBA 251, 252 and 305. One hour per week to be arranged. One semester hour.

ECBA-328. Comparative Economic Systems  Staff
Analysis of alternative national economic systems in developed and underdeveloped countries in theory and practice. The formulation of economic policies to solve economic problems is discussed and compared. Offered alternate years. Prerequisites: EcBA 100 and two of the following: 251, 252, 308 or 309. Three hours per week. Three semester hours.

ECBA-328a. Comparative Economic Systems Research  Staff
Major research paper, including empirical analysis, emphasizing the theory and applications addressed in EcBA 328. This course must be taken concurrently with EcBA 328. Prerequisites: EcBA 100, and two of the following: 251, 252, 308 or 309. One hour per week to be arranged. One semester hour.

ECBA-381. Internship  Staff
An off-campus academic/work experience under the supervision of a faculty internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, 12 credits in economics and business administration, and prior written approval of a faculty internship adviser. Internships in accounting also require EcBA 105, 203 and 204. Eight to 10 hours per week. Three semester hours.

ECBA-399. Economics Tutorial  Staff
Presentation of a research paper where peer evaluation is guaranteed, preferably at an undergraduate or professional conference. The paper must be a revision and extension of a previously graded paper, which has already undergone a series of faculty-supervised drafts. Prerequisites: EcBA 251 or 252, permission of the chairperson, and permission of the instructor who is to serve as the tutor. One semester hour.

ECBA-405W. Research Seminar in Business, Economics and Accounting  Staff
Preparation and oral presentation of a research paper synthesizing scholarly literature, field experience, prior student research and original
data analysis of an issue concerning business, economics or accounting. Topics are chosen consistent with prior research and internship experiences of each student. Prerequisites: EcBA 305, 306, 306a, 307 and 307a; English 100; Math 105 (or 111). EcBA 381, 481 or 491 must be previously completed or studied concurrently. Three hours per week. *Four semester hours.*

**ECBA-409W. Seminar in International Business**

The study of international business concentrating on accounting, finance, marketing and decision making in a global environment. Extensive research paper required and presented orally. Topics are based on student interest, internship or previous student research experiences consistent with the student’s modern language specialization. Prerequisites: EcBA 305, 306, 307 and 308 or 309; Modern Lang. 201, 318, except Japanese, which requires 211 and 212; English 100; Politics 100 and 252. Three hours per week. *Four semester hours.*

**ECBA-437W. Strategic Management and Business Policy**

The study of business strategy, the process of its formulation and implementation and an examination of business policy problems and their solutions. The case study method is used, requiring written and oral presentations. Extensive semester project using spreadsheet financial analyses will be required. Prerequisites: EcBA 218, 305, 306 and 307. Three hours per week. *Four semester hours.*

**ECBA-451W. Seminar in Contemporary Microeconomic Issues**

An overview of contemporary economic issues in microeconomics utilizing advanced theoretical and empirical readings from current economics journals. Preparation and oral presentation of a research paper required. Prerequisites: EcBA 305; Math 105 (or 111); English 100. Three hours per week. *Four semester hours.*

**ECBA-452W. Seminar in Contemporary Macroeconomic Issues**

An overview of contemporary economic issues in the global macroeconomic arena utilizing advanced theoretical and empirical readings from current economics journals. Preparation and oral presentation of a research paper required. Prerequisites: EcBA 305; Math 105 (or 111); English 100. Three hours per week. *Four semester hours.*

**ECBA-463W. Topics in Econometrics**

The design and testing of economic hypotheses using multiple regression analysis. Particular care will be given to the statistical and economic theory which lies behind the most common applications. A research paper will be required and presented orally. Prerequisites: EcBA 305; Math 112 and 235; English 100. Three hours per week. *Four semester hours.*

**ECBA-481. Internship Seminar**

An off-campus academic/work experience under the supervision of a faculty internship adviser and an on-site supervisor. Preparation of an extensive research paper combining academic and workplace materials is presented orally to members of the department. Prerequisites: Open only to fourth-year majors with the chairperson’s permission; a minimum of 26 credits in EcBA, including EcBA 305, and a 300-level elective appropriate to the internship; and not having received credit for EcBA 381. One on-campus hour per week; eight to ten hours off-campus per week. *Four semester hours.*

**ECBA-491. Research/Independent Work**

Preparation of an independent research paper. Open only to candidates for departmental honors or to fourth-year majors with the permission of the department chairperson. *Four semester hours.*

**ECBA-492. Research/Independent Work**

A continuation of Economics and Business Administration 491. Prerequisite: EcBA 491. *Four semester hours.*
Aims of the Education Department
1. To contribute, in the classical tradition, to the liberal education of students by preparing them for free citizenship and continuing personal cultivation beyond any strictly vocational expectations. Great ideas expressed by great writers are our subject matter; our methods are discussion, analysis, synthesis, critical thinking, and problem-solving through clearly and logically written and spoken English.
2. To provide a framework for acquiring the art of teaching: how people learn; under what conditions and at what stages they are most likely to learn; how to define educational objectives; how to design a curriculum/course/unit and to select instructional techniques to meet those objectives and to accommodate the broadest possible range of abilities and exceptionalities; and how to assess the extent to which the objectives are met.
3. To provide background on the history of education, on the philosophical theories on which educational practice has been based, and on the political realities which can make all the rest irrelevant.
4. To provide entry-level skills for beginning teachers in public and private educational settings.
5. To provide programs leading to Instructional I certification by the Pennsylvania Department of Education in the following areas:

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<tr>
<th>Biology</th>
<th>German</th>
<th>Mathematics</th>
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<td>Chemistry</td>
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<td>General Science</td>
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In addition to the education department requirements listed in this catalog, the academic departments participating in teacher education at Ursinus College have determined their own specific requirements for admission to student teaching. The recommendation of the student’s major department is required for admission to student teaching. For details, see the Education Department booklet, Ursinus College Teacher Education Programs.

Pennsylvania will certify candidates for the Instructional I (provisional) certificate upon recommendation of the College’s certification officer (the Education Department chair). Such recommendation will depend upon completion of a state-approved certification program and upon academic achievement, specified demonstrated competencies in professional coursework, field experiences, and fitness for teaching,
including character. These criteria are spelled out in greater detail in the Programs booklet. Candidates for the Instructional I certificate must also pass the National Teachers’ Examination. (See the Ursinus Education Department for information and registration forms.)

Teacher certification through Ursinus College has been accepted in many other states, while Pennsylvania is party to interstate compacts and reciprocity agreements with most state educational agencies. This means that certification by the Commonwealth of Pennsylvania normally allows a person to teach nearly anywhere in the country as well as at U.S. schools abroad. Some states have recently instituted their own certification tests; the student interested in teaching outside Pennsylvania should consult with the educational agency of the state in which he/she expects to teach. Pennsylvania certification requires U.S. citizenship, unless certification is sought in foreign language instruction.

Students are invited to elect courses in education to fulfill their degree requirements in basic intellectual skills, in the minor concentration, or in individual choice electives.

For students interested in a complete program in education, two options are available: 1) a teacher certification program; 2) a minor in secondary education or elementary education. A minor in education is not required for Pennsylvania teacher certification.

Teacher Certification

Required courses: Education 202, 302, 344, 405, 441, and 443; EDUC/PSYC 265; CST 201 (CA 100). Education 443 will be satisfied for students who major in exercise and sport science by completing ESS-355.

As an institution having been granted program approval by the Pennsylvania Department of Education, the College is prepared to address the needs of nontraditional candidates for certification, including those with degrees who wish initial or additional areas of certification. Where a candidate for certification can provide evidence of appropriate prior academic learning, teaching experience, or certification, provision is made for accrediting such work as part of the process of recommending a candidate for certification. Candidates for Ursinus degrees must meet the College and major departmental requirements noted elsewhere in this catalog.

Admission to the teacher certification program or to student teaching is not automatic. Formal enrollment in the certification program is required, a step that should occur as early as possible in the student’s academic
career. (Enrollment forms are available in the Education Department.) For admission to student teaching, the candidate must meet established major department criteria, must earn an overall GPA of at least 2.50 by the end of the junior year, and must earn an average of 3.00 in the following education courses: EDUC 202, EDUC/PSYC 265, EDUC 302, and EDUC 344. Major department criteria are listed in the Education Department’s Teacher Education Programs.

Minors in Education. Two minors in education are available. Neither minor leads to teacher certification. Minor in secondary education: EDUC 202, 344, one from 402, 434 or 446, EDUC/PSYC 265, and PSYC 355 (PSYC 330 recommended). Minor in elementary education: EDUC 202, 344, one from 402, 434 or 446, EDUC/PSYC 265, and PSYC 345 (PSYC 330 recommended).

EDUC–202. Introduction to Education  
Ms. Florio
An introductory course for those who plan to teach or who wish to know more, as citizens, about their public schools. It deals with the organization and characteristics of the American school system, noting the characteristics of teaching as a profession and the teacher’s responsibility in the classroom and the school. Field experience required. Three hours per week. Four semester hours.

EDUC/PSYC-265. Educational Psychology  
Staff
Educational application of psychological concepts will be addressed. The focus is on the psychological processes involved in learning and behavior management in the classroom, but the course includes a survey of cognitive and social development (the same course as Psychology 265). Prerequisite: Psychology 100. Three hours per week. Four semester hours.

EDUC–302. Education Practicum  
Mr. Saboe
In preparation for student teaching the following semester, this course focuses upon field experiences to familiarize students with district, building, and departmental cultures and procedures. Prerequisites: EDUC 202, Education Department approval. Minimum of three hours a week. Two semester hours.

EDUC–344 Foundations of Education  
Dr. Gross
A study of the philosophical and historical foundations of education, with reference to current conditions and practices in the public schools. Field experience required. Three hours per week. Three semester hours.

EDUC–402. Identity and Diversity  
Dr. Gross
Analysis and exploration of individual influences and filters regarding racial and gender identity issues through examining and exchanging multiple viewpoints and perspectives in preparation for diversity in the professions, with particular emphasis on teaching. Spring semester only. Three semester hours.

EDUC–405. Student Teaching  
Staff
A laboratory course consisting of observation and student teaching. Supervision is provided by faculty in the department of education and normally by other members of the College community in cooperation with teachers from local schools. Conferences and critiques occur between College faculty and student teachers. The course is open only to fourth-year students who meet published academic criteria. In order to receive the College’s recommendation for teacher certification, the student teacher must earn a grade of at least B- in this course. Prerequisites: Education 202, 302, 344; PSYC 265; CST 210 (CA 100). Taken with EDUC 441
and 443, as part of the Professional (fall) Semester. Eleven semester hours.

EDUC–443. Curricular Seminar  Dr. Gross
A study of selected topics relevant to reforming education in today’s schools, with special attention to curricular development. Two hours per week. Two semester hours.

EDUC–441. General Teaching Methods  Dr. Gross
Principles of secondary school teaching; general methods of instruction; challenges of the beginning teacher; function and use of instructional materials. Taken with EDUC 405, 443, as part of the Professional (fall) Semester. Prerequisites: EDUC 202, 302, 344; PSYC 265. Three hours per week. Three semester hours.

EDUC–443. Special Teaching Methods  Staff
This course, which supplements the general methods course (441), provides specialized instruction in teaching one of the subject areas offered in the College’s teacher education programs. Sections are offered in each discipline and are noted on student records according to the following scheme. (C) Classical Languages [Latin]; (E) English; (L) Languages, Modern [French, German, Japanese, and Spanish]; (M) Mathematics; (S) Science [Biology, Chemistry, General Science, and Physics]; (T) Teaching English as a Second Language (TESL); (X) Social Studies. Sections are taught by experts in the subject fields from the public schools. Prerequisites: EDUC 202, 302, 344; PSYC 265. Taken with EDUC 441, 405, as part of the Professional (fall) Semester. Two hours per week. Two semester hours.

EDUC–446. Issues and Trends in Contemporary Education  Dr. Gross
A study of current issues with reference to educational history on the one hand, and to trends and educational futures on the other. At present the course addresses such topics as values education, the so-called quality vs. equity dilemma, accountability, and the reform of teacher education. Includes some field research. Three hours per week. Three semester hours.

EDUC–451. Research  Staff
This course comprises directed reading and research on a specific topic in education. Students wishing to register in this course present to the adviser for this research a proposal outlining the research to be conducted. The proposal must be approved by the adviser. At regular intervals during the semester, students submit progress outlines and meet with the adviser to discuss them. A final paper is required. One semester hour.

EDUC–452. Research  Same as Education 451, but offered in the spring semester.

EDUC–491. Research/Independent Work
Independent investigation of an aspect of teaching, using both the library to examine relevant literature and the school setting as a laboratory for applying theory. Oral progress reports and a major paper are required. Written consent of the research adviser and departmental staff must be presented at the time of registration. Three semester hours.

EDUC–492. Research/Independent Work  Same as Education 491, but offered in the Spring Semester. Three semester hours.

ENGLISH

Professors DeCatur, Henry, Perreten, Schroeder, Wickersham; Associate Professors Dole (Chair), Kelley, Lionarons, Volkmer; Lecturers Agostinelli, Bates, Kravinsky, Scheer.

Requirements for Majors

Majors must complete at least nine courses in English beyond English 100, including: 221W; any four of the sequence 215-220, including either
ENGLISH

219 or 220; at least two 300-level courses; and a 400-level seminar or an honors paper. CST 207 may also be included in the major.

Students who are considering graduate study in English are strongly encouraged to take more than the minimum number of courses, including the entire 215-220 sequence.

Students who want to be certified to teach English must fulfill all departmental requirements for an English major. Their courses should include literary genres, themes, chronologies, and major writers. In addition, students working toward certification must select the following courses: English 208 and 214; CST 201 (CA 100); either IDS 101, English 321, or English 326; and either English 206, English 211, CST 222, or English 317. They are also strongly urged to complete the entire 215-220 sequence. Candidates for certification must also participate in student journalism or theater activities. Students and their advisers should consult the education department booklet, *Ursinus College Teacher Education Programs*.

Requirements for Minors

A minor concentration in English consists of at least 16 hours in English beyond English 100, including at least one literature course at the 300 or 400 level. At least two of the series 215-220 are strongly recommended.

A minor concentration in creative writing consists of English 302 plus at least three of the following composition courses: 205, 206, 208, CST 207. Participation in student publications (*The Grizzly* or *The Lantern*) for a minimum of two semesters is also required.

ENGL–100. First-Year Composition  
Staff  
Expository writing workshop, with attention to all the stages of the writing process from generating ideas to refining drafts. Students will write frequent short papers. The course will also introduce students to the proper use of outside sources. Three hours per week. *Four semester hours.*

ENGL–200. Introduction to Literature  
Staff  
The course develops skills in reading, understanding, and appreciating literature with the aim of helping students read good literature for lifetime enjoyment. Themes and topics change each year. Not open to junior or senior English majors. English 200 does not count toward an English major or minor. Prerequisite: English 100 or permission of instructor. Three hours per week. *Four semester hours.*

ENGL–205. Fiction Writing  
Dr. Volkmer  
A beginning course in the writing of fiction, with special attention to the short story. The student will study technical aspects of the craft and masterpieces of the genre. The student will write short stories, receive critical responses, and make extensive revisions. Enrollment limited to 12 students. Prerequisite: English 100. Three hours per week. *Four semester hours.*
ENGL-206. Poetry Writing  Dr. Volkmer
A beginning course in the writing of poetry. The student will study selected works, learn traditional forms of the lyric, and write original verse in those forms. The student will make extensive revisions, based on responses from peers and the professor. Enrollment limited to 12 students. Prerequisite: English 100. Permission of the instructor required for registration. Three hours per week. *Four semester hours.*

ENGL-208. Advanced Expository Writing  Dr. Perreten, Dr. DeCatur
Practice, on an advanced level, in the writing and critical evaluation of nonfictional prose. Enrollment is limited to 12 students per section. Prerequisite: English 100. Three hours per week. *Four semester hours.*

ENGL-211. Shakespeare on Stage  Dr. DeCatur, Dr. Henry
A comparative study of productions and interpretations of a selection of Shakespeare’s comedies, histories, tragedies, and romances. Prerequisite: English 100. Three hours per week. *Four semester hours.*

NOTE: English majors will normally take English 309, 310; credit toward the major will be given only for any two of the courses English 309, 310, or 211.

ENGL-214. Linguistics and Modern Grammar  Dr. Lionarons
An introduction to synchronic and diachronic linguistics, stressing the ways in which linguistic structures promote effective communication. Recommended for future writers and lawyers as well as English teachers. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-215. Medieval and Renaissance Literature  Dr. DeCatur, Dr. Lionarons, Dr. Perreten
Includes Chaucer, Spenser, Shakespeare, and others, presented in historical context. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-216. 17th- and 18th-Century English Literature  Dr. DeCatur, Dr. Lionarons, Dr. Perreten
Includes Milton, Dryden, Swift, Pope, and others, presented in historical context. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-217. Romantic and Victorian Literature  Dr. Dole, Dr. Perreten
Includes Wordsworth, Keats, Tennyson, and others, presented in historical context. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-218. 20th-Century English Literature  Dr. DeCatur, Dr. Dole, Dr. Perreten
Includes Joyce, Woolf, Eliot, and others, presented in historical context. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-219. American Literature before 1900  Dr. Kelley, Dr. Schroeder
A survey of American literature from the beginning through Twain and James, with attention to minority and women writers as well as traditional figures. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-220. 20th-Century American Literature  Dr. Kelley, Dr. Schroeder
A survey of American literature from c. 1900 to the present, with attention to minority and women writers as well as traditional figures. Prerequisite: English 100. Four hours per week. *Four semester hours.*

ENGL-221W. Literary Criticism and its Application  Dr. Kelley, Dr. Lionarons
A workshop in critical writing about literature, organized around the study of traditional and specialized approaches to fiction, drama, and poetry. Prerequisite: English 100 or equivalent. Four hours per week. *Four semester hours.*

NOTE: Students who have taken English 201W cannot receive credit for 221W.
ENGLISH

ENGL-222. African-American Literature
Dr. Kelley, Dr. Schroeder
An introduction to the literature written by black American writers and the criticism of that literature in its different stages of development. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

*ENGL-223. Chinese Literature in Translation
Dr. DeCatur
Critical reading of representative works from Chinese literature in modern translations. This survey in a variety of genres begins with literature from the 12th c. B.C.E. and ends with modern Chinese literature. Three hours per week. *Four semester hours.*

ENGL-224. Japanese Literature in Translation
Dr. DeCatur
Critical reading of representative works from Japanese literature in modern translations. This survey in a variety of genres begins with literature from the Ancient Period (Man'yoshu) and ends with modern novels and short stories. Three hours per week. *Four semester hours.*

ENGL-228. Women's Literature
Dr. Dole, Dr. Kelley, Dr. Lionarons
A cross-period study of literature by British and American women, paying attention to issues of canon formation and feminist literary theory. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

NOTE: Students who have taken English 318 will not receive credit for English 228.

ENGL-280. Film Studies
Dr. Dole
A study of films as texts, including an introduction to the vocabulary of the medium. Topics change yearly. This course is also listed as CST 280. Prerequisite: English 100. Four hours per week. *Four semester hours.*

NOTE: Students who have taken English 225 will not receive credit for English 280.

ENGL-300. Special Topics in English
Staff
This course will focus on a specific topic in English studies not covered in any depth in other courses in the curriculum. Prerequisites: English 100, LSS 100. Three hours per week. *Four semester hours.*

*This course is not offered in 1997-1998.*

ENGL-302. Advanced Creative Writing
Dr. Volkmer
A workshop course in creative writing offering the student the opportunity to receive significant critical responses on extended works of poetry or prose fiction. Enrollment limited to 10 students. Prerequisite: English 205 or 206, or permission of the instructor. Three hours per week. *Four semester hours.*

ENGL-309. Shakespeare and His Contemporaries
Dr. DeCatur, Dr. Henry
The reading of Shakespeare’s principal history plays and comedies and the study of their background with supplemental plays written by his important contemporaries. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

ENGL-310. Shakespeare and His Contemporaries
Dr. DeCatur, Dr. Henry
The reading of Shakespeare’s principal tragedies and romances and the study of their background, with supplemental plays written by his important contemporaries. English 309 is not a prerequisite for 310. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

*ENGL-317. Studies in Poetry
Dr. Perreten, Dr. Volkmer
An in-depth examination of poetry and poetics in English. The course includes reading of primary and secondary sources, critical evaluation of poetry, and imitation of poetic forms. Prerequisite: English 221W. Three hours per week. *Four semester hours.*

ENGL-319. Studies in Satire
Dr. Perreten
An interdisciplinary (multimedia/intertextual) study of the modes of satire and critical commentary on satire, concentrating on the 18th and 20th centuries. Prerequisites: English 100 and LS 100. Three hours per week. *Four semester hours.*

ENGL-320. King Arthur
Dr. Lionarons
A course in medieval and modern literature and film dealing with King Arthur and the legends that surround him. Prerequisite: English 100. Three hours per week. *Four credit hours.*
ENGL-321. Topics in Classical Studies
Dr. Wickersham
A thorough study of one area of ancient Greek or Roman experience, thought, and literature. Reading in translation of comedy or epic or tragedy. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

ENGL-326. Mythology
Dr. Wickersham
Illustrated lectures survey the tales of gods and heroes in Greek legend, from the creation of the world to the end of the age of myth—the foundations of Western literature. Interpretive approaches are also studied. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

ENGL-335. 20th-Century Drama
Dr. Henry, Dr. Schroeder
A study of the principal plays, playwrights, and dramatic movements of the 20th century, beginning with the revolution of Ibsen’s realism through the emergence of women and black playwrights. Prerequisites: English 100; LS 100. Four hours per week. *Four semester hours.*

ENGL-339. The British Novel
Dr. Dole
A study of British novels selected by theme, genre, or period. Prerequisites: English 100; LS 100. Three hours per week. *Four semester hours.*

NOTE: Students may not receive credit for 339 and either 337 or 338.

*ENGL-340. The Novel in America
Dr. Kelley, Dr. Schroeder
Study of selected American novels, arranged topically. Prerequisite: English 219 or 220 or consent of instructor. Three hours per week. *Four semester hours.*

ENGL-342. Contemporary Fiction
Dr. Kelley, Dr. Volkmer
A study of significant fictional works, trends, and innovations since World War II. Prerequisite: English 218 or English 220 or consent of instructor. Three hours per week. *Four semester hours.*

ENGL-381A. Internship
Staff
An off-campus academic/work experience under the supervision of an internship adviser and an onsite supervisor, involving eight to 10 hours weekly. Discuss details with the chair of the department. Prerequisites: Junior or senior standing and the approval of an internship adviser. *Three semester hours.*

ENGL-381B. Internship
Staff
An off-campus academic/work experience under the supervision of an internship adviser and an onsite supervisor, involving 11 to 14 hours weekly. Discuss details with the chair of the department. Prerequisites: Junior or senior standing and the approval of an internship adviser. *Four semester hours.*

ENGL-441 through 444. Seminar in Advanced Studies in Literature
Staff
A study of a genre, a major figure, or a special topic. Prerequisites: English 221W; senior or second-semester junior standing. This course will satisfy the College requirement for a capstone experience and an oral presentation in the major. Three hours per week. *Four semester hours.*

ENGL-491. Research/Independent Work
Staff
This course is open to candidates for departmental honors and to other students with the permission of the department chair. *Four semester hours.*

ENGL-492. Research/Independent Work
Staff
A continuation of course 491. Prerequisite: 491. When this course is used to fulfill the capstone experience in the major, the student will be required to give a substantial oral presentation of the research project, either to the departmental honor society or to another group approved by the project adviser, and CA 100 will be a prerequisite. *Four semester hours.*

*This course is not offered in 1997-1998.
EXERCISE AND SPORT SCIENCE

EXERCISE AND SPORT SCIENCE
Professor Davidson (Chair); Associate Professors Boyd, Borsdorf, Chlad, Wailgum; Assistant Professor Engstrom; Visiting Professors Gilbert, Gros; Lecturer Robertson.

The department of exercise and sport science serves dual functions: (1) to provide for all students a diversified service program of activities, and (2) to offer to those students interested in majoring in the field comprehensive programs in exercise science, sports medicine, wellness, fitness health and physical education leading to graduate programs, teaching and other professional certifications. Included in the service program are classes in basic and advanced activities, organized intramural programs for men and women, and recreational facilities for use by all students in their leisure time.

The professional program is a four-year course of study, offering within the framework of a broad liberal arts education the opportunity to develop competencies in the many disciplines which make up the exercise and sport-science domain. Implicit in its objectives is the development of the total individual’s knowledge, skills, habits and attitudes, the development of social and professional competencies, the growth of insight, independent thought, initiative and leadership, and the evolution of a dynamic ethical philosophy.

Requirements for Majors
Students majoring in the ESS Department must take the following courses: ESS 100, 220, 334, 351, and 352; complete the required courses in a major area of concentration; and complete both the oral and capstone experience requirements by electing to take one of the following courses: ESS 412, 465, 478W or 491.

I. Teaching of Health and Physical Education
This program is recommended for those preparing to become teachers. The required courses are ESS 232W, 333, 355, 356, 462, 464, one of the following ESS 167, 235, or 267; IDS 350; Bio 317 and eight semester hours of activities. A minimum of six semester hours of activity courses must be taken at the 200 level. Students in the teacher certification program in Health and Physical Education will be required to complete a course in analysis and movement for each of the following activity areas: aquatics, dance, individual and dual sports, and team sports. The students will be introduced to the following concepts for each activity area: identification and analysis of critical elements, teaching progressions, activity strategies, and safety and organizational implications.
EXERCISE AND SPORT SCIENCE

NOTE: Students seeking K-12 teaching certification in health and physical education from the Commonwealth of Pennsylvania must include the following courses of study in their program: EDUC. 202, 265, 302, 405, 441, 444 and CA 100. Candidates for teacher certification must earn a departmental GPA of at least a 2.50 and receive a departmental recommendation. Students and their advisers should consult the Education Department booklet, *Ursinus College Teacher Education Programs*, for further information.

II. Exercise Science

A flexible program of study recommended for those students preparing for careers in the following areas: allied health sciences, corporate fitness, exercise physiology, wellness-fitness promotion, etc. Students must take one of the following ESS 135 or 167 or 267, and a minimum of twelve credit hours of ESS theory courses (one course must be a "W" course), a minimum of two credit hours of ESS activity courses, and a minimum of eleven credit hours of laboratory courses in the natural sciences.

NOTE: It is highly recommended that students obtain graduate catalogs no later than the end of their sophomore year to determine individual pre-requisite needs for graduate school. Students seeking admission to graduate allied health programs need to elect to take Bio 111Q, 112Q; 105/105a, 106/106a and 206/206a; Math 111 &/or 241Q; Physics 111Q, 112; and various courses from the Humanities and Social Science Divisions.

III. Sports Medicine

A program of study recommended for those students interested in obtaining national certification in athletic training and admittance to graduate sports medicine programs. The required courses are ESS 178, 267, 278, 378, 478W and Bio 317 & 318.

Note: Students seeking National Athletic Training Association (NATA) certification must also elect to take ESS 462, 487, and 488. ESS 485 and 486 are highly recommended as electives for NATA certification candidates.

Minor Concentrations

A minor concentration in coaching consists of ESS 100, 220, 267, 363, 365, 366, and 225 or 226. (22 semester hours) A minor concentration in wellness/fitness education consists of ESS 100, 167, 333, 334, 346, and 347. (21 semester hours) Strongly recommend Biology 100, 317 and 318.
EXERCISE AND SPORT SCIENCE

Activities Courses

Students may elect activity courses listed at the 100 level. Students wishing to elect activity courses may not register for more than one activity course in any given semester and no more than three hours of activity courses may count toward the 128 semester hours required for graduation.

The intent of 100 level courses will be to develop basic skills, improve fitness, foster the concepts of wellness, provide enjoyment, and develop recreational and social competencies through participation in lifetime sports and leisure activities.

Upper level activity courses are designed for ESS Majors and will focus on movement analysis and teaching progression and techniques. Students with special interest or skills may elect activity courses at the 200 level with the permission of the ESS Department.

ESS-101. Contemporary Dance  Staff
One semester hour.

ESS-102. Aerobics  Staff
Two hours per week. One semester hour.

ESS-103. Modern Dance  Staff
One semester hour.

ESS-107. Basic Swimming  Dr. Davidson
Course is designed to meet the needs of the non-swimmer and the beginning swimmer. Emphasis will be on skill development and the ARC Basic Water Safety program. One semester hour.

ESS-108. Intermediate Swimming  Dr. Davidson
Course is designed to meet the need of the intermediate level swimmer. Emphasis will be on skill development and the A.R.C. Emergency Water Safety program. One semester hour.

ESS-109. Judo and Self-Defense  Dr. Davidson
This course will provide students with current theory and practice in self-defense. avoidance, escape and fight back skills are presented. Basic judo skill including falling techniques and throws are developed. Two hours per week. One semester hour.

ESS-113. Racquet Sports (Basic Skills)  Staff
One semester hour.

One semester hour.

ESS-115. Wellness I  Ms. Boyd
Walking and stretching activities for the promotion of physical fitness. Weight control techniques through diet and exercise; stress management skills. One semester hour.

ESS-116. Golf, Archery, and Bowling  Staff
One semester hour.

ESS-121. Volleyball (Basic Skills)  Ms. Cornish
One semester hour.

ESS-122. Volleyball (Advanced Skills)  Ms. Cornish
One semester hour.

ESS-137. Weight Training and Physical Conditioning  Mr. Gilbert
One semester hour

ESS-140. Stress Management  Dr. Borsdorf
Problem-solving principles that underlie stress management will be introduced, and coping strategies for managing stress will be explored, culminating in the development of a personal stress management plan. Two hours per week. One semester hour.

(Offered odd spring semesters beginning in 1999)
ESS-147. **Body Recall**  
*Dr. Borsdorf*

A physical fitness course appropriate for all ages and fitness levels. Activities will utilize a variety of recreational equipment to enhance body movement and flexibility. In addition, the mechanics of everyday activities will be explored with respect to the benefits derived in a daily physical maintenance program. Students preparing to work with the living longer population are encouraged to enroll in this course. Two hours per week. *One semester hour. (Offered odd fall semesters)*

ESS-150. **Special Activities**  
*Staff*

This course will focus on an activity not included in the current curriculum, e.g. cycling and adventure activities. Two hours per week. *One semester hour.*

ESS-200. **Field Hockey and Lacrosse**  
*Ms. Gross*

Three hours per week. *Two semester hours. (Offered odd fall semesters)*

ESS-204. **Non-Traditional Team Sports**  
*Dr. Borsdorf*

This course will introduce team sports typically included in physical education and recreation programs. The course will promote movement skills and cardiovascular fitness through participation in team handball, speedball, ultimate frisbee and other team sports. Two hours per week. *One semester hour. (Offered even fall semesters)*

ESS-220. **Critical Components of Conditioning**  
*Dr. Engstrom*

This course is designed to introduce students to the concepts of conditioning as it relates to muscular strength and endurance as well as various forms of cardiovascular training. The course will emphasize the identification and analysis of the critical elements of weight training exercises, teaching progressions involved in conditioning, and safety and organizational implications of conditioning. Three hours per week. *Two semester hours. (Offered every spring semester)*

ESS-221. **Analysis and Movement of Dance**  
*Staff*

This course is designed to introduce students to the fundamentals of teaching dance. The course will include instruction in aerobics, step aerobics, and various forms of social dancing including line dancing, contemporary dances, as well as folk and square dancing. One hour of lecture and two hours of laboratory experiences. *Two semester hours. (Offered odd spring semesters)*

ESS-222. **Football, Soccer, and Volleyball**  
*Dr. Engstrom*

This course is designed to introduce strategies and concepts, critical to successful teaching and coaching experiences. Skill analysis, teaching progressions and organizational considerations will be emphasized. Three hours per week. *Two semester hours. (Offered odd spring semesters)*

ESS-225. **Basic Movement Techniques in Individual and Team Sports**  
*Ms. Gros*

This course analyzes the basic concepts of movement and decision-making that are crucial to athletic success in all the most popular sports. Basic principles such as spatial awareness, timing, visual skills, angles of movement, and reading cues will be thoroughly discussed and practiced. The students will learn the importance of consistently including these concepts when coaching youngsters in drills, small games and full scrimmages and games. The class will equally consist of practical participation, discussions and video analysis. Three hours per week. *Two semester hours. (Offered even spring semesters)*

ESS-226. **Analysis and Movement in Individual and Team Sports**  
*Ms. Gros*

This course analyzes the more complex concepts of movement and decision-making that are needed for young athletes as they move up the competitive ladder. The students will learn to teach the movement and decision-making that is required for "off the ball" play, to understand the subtleties of deception and to learn how to make more complex "reads." The class will consist of practical participation, discussions and a great deal of video analysis. Prerequisite: ESS 225 or by permission of the instructor. Three hours per week. *Two semester hours. (Offered odd spring semesters)*
EXERCISE AND SPORT SCIENCE

ESS-233. Racquet Sports Ms. Boyd
Three times per week. Two semester hours
(Offered every fall semester)

ESS-234. A.R.C. Water Safety Instructor Dr. Davidson
Course leads to A.R.C. certification as a Water Safety Instructor (WSI). Three hours per week.
Two semester hours. (Offered every fall semester)

ESS-235. A.R.C. Lifeguarding Dr. Davidson
Course leads to certification in American Red Cross standard first aid, CPR for Professional Rescuers, Lifeguard and Lifeguarding Instructor. Three hours per week. Two semester hours.
(Offered every spring semester)

Theory Courses

ESS-100. Concepts of Wellness and Fitness Dr. Borsdorf
An exploration of the various dimensions of wellness. Emphasis will be on the concepts of total fitness and wellness. Wellness/fitness self testing, self evaluation, and self-care skills will be developed. Three hours per week. Four semester hours.
(Offered every semester)

Note: This course should be completed by ESS majors in either the freshman or sophomore year.

ESS-167. Community CPR and Standard First Aid Staff
This course meets the requirements for the American Red Cross Standard First Aid and Community CPR Certifications. One hour lecture, two hours lab. One semester hour.
(Offered every spring semester)

ESS-178. Surface Anatomy and Muscle Function Testing Staff
This course focuses on identifying the topographic anatomy of specific body regions, as well as, the skin dermatome scheme. Muscle function and testing of various muscles will also be addressed. Prerequisite: pursuit of career in athletic training or physical therapy and permission of instructor. One hour lecture, one hour lab. One semester hour. (Offered every fall semester)

ESS-232W. Current Trends in Health Ms. Boyd
This course will focus on the promotion of health education as it relates to the individual and the community at large. Special emphasis will be placed upon family and community health, consumer health, and environmental health issues. This course will function as one of the writing intensive courses for students in the ESS Department. Prerequisite: English 100 and the permission of the department. Three hours per week. Four semester hours.
(Offered every spring semester)

ESS-245. Leadership in High-Risk and Adventure Activities Dr. Engstrom
Basic concepts of the leadership role in high-risk and adventure activities. A historical perspective, philosophical background, educational strategies and safety considerations will be discussed. Particular attention is given to the integration of environmental concerns, problem solving, and adventure activities in high-risk and adventure programming. Two hours lecture and three hours laboratory per week. Four semester hours.
(Offered every fall semester)

ESS-261W. Research Methods in Health and Human Performance Dr. Davidson
This course will provide an introduction to research methods in health and human performance. Topics include: research design, selecting and defining a problem, literature review, procedures for obtaining data, analyzing and presenting data, and related computer applications. Prerequisites: English 100 and ESS 100. Three hours per week. Four semester hours.
(Offered every fall semester)

ESS-267. Advanced Skills in Emergency Care Dr. Davidson
This course leads to advanced certification in A.R.C. first aid and CPR skills. Introductory level concepts for the care and prevention of athletic injuries will be reviewed. This course is specifically designed for those students wishing to obtain coaching certification or for those
students (e.g., lifeguards, athletic trainers, fitness supervisors, etc.) wishing to obtain advanced life support skills. Three hours per week. Three semester hours. (Offered every fall semester)

Note. This course will fulfill the first aid requirement for ESS majors.

ESS-278 Care and Prevention of Athletic Injuries Ms. Robertson
This course identifies injury/illness risk factors associated with participation in competitive athletics. The prevention, mechanisms, and care of common sports injuries are emphasized. Prerequisite: Biology 317 or the permission of the instructor. Three hours of lecture and two hours of laboratory per week. Four semester hours. (Offered every spring semester)

ESS-300 Death, Dying, and Grief: A Wellness Perspective Dr. Borsdorf
This course will provide students and the instructor the opportunity for an open examination of death, and to help prepare each person to better cope with the inevitable death and grief situations that all encounter throughout life. A wellness perspective which enters into decisions surrounding death, dying and bereavement will be explored. Three hours per week. Four semester hours. (Even spring semesters beginning in 2000)

ESS-301 Gender Issues in Health and Sport Dr. Borsdorf
This course will allow students to examine gender differences and the ramifications on health and sports. Topics to be explored will include: gender effects on body composition and weight control, bone mineralization patterns, cardiorespiratory function, thermoregulation, personal and sexual dimensions of health, chronic conditions, and aging influences/repercussions. Four hours per week. Four semester hours. (Offered every fall semester)

ESS-333 Drugs & Alcohol-Use and Abuse in Modern Society Ms. Robertson
The significance of drug and alcohol use, misuse, and abuse in society is analyzed. Drugs and drug use today are addressed from several perspectives—historical, psychological, physiological, pharmacological, sociological, and legal. Prevention, intervention, treatment, and rehabilitation of drug and alcohol abuse is also discussed. Prerequisite: ESS 100. Four hours per week. Four semester hours. (Offered every fall semester)

ESS-334 Nutrition Ms. Chlad
The relationship between nutrition, exercise, and weight control will be examined from various perspectives: scientific principles, consumer protection, and holistic health concepts. The course will explore the principles of nutrition and the process of metabolism. Prerequisite: ESS 100 or the permission of the instructor. Four hours per week. Four semester hours. (Offered every spring semester)

ESS-346 Wellness/Health Program Management Dr. Borsdorf
A general survey of the fitness, wellness and recreation movements. Theories relevant to the three areas and their interrelationship will be explored. Particular attention will be given to methods and techniques of marketing and to developing and implementing wellness and fitness programs. Prerequisites: ESS 100 or the permission of the instructor. Three hours per week. Four semester hours. (Offered even spring semesters)

ESS-347 Wellness/Health for Adult Populations Dr. Borsdorf
An analysis of the techniques used to confront the problems and needs of an adult population through wellness/fitness services. This course will focus upon the aging process and its relationship to physical fitness and other wellness dimensions. Special emphasis will be placed upon identifying alterable aging processes and developing strategies for improving overall wellness in various adult populations. Participants will become familiar with a variety of wellness programs, fundamental movement sequences, and incentive activities designed to enhance the physical, emotional, and social health of all adults, with a special emphasis on the senior population. Three hours per week. Four semester hours. (Offered odd fall semesters)
EXERCISE AND SPORT SCIENCE

ESS 351. Structural Kinesiology  
Dr. Wailgum

This course will examine how the neuromuscular and skeletal systems create volitional movement patterns. The execution of various sports skills will be utilized to identify types of joint motion, types of muscle tension, and agonist vs antagonist muscle groups. Prerequisite: Bio 317 or permission of the instructor. Three hours of lecture and two hours of laboratory. Four semester hours. (Offered every spring semester)

ESS-352. Exercise Physiology  
Dr. Wailgum

The study of the physiological alterations and adjustments which occur in response to physical performance. Prerequisite: ESS 351 or permission of the instructor. Three hours lecture and two hours laboratory. Four semester hours. (Offered every fall semester)

ESS-353. Introduction to Biomechanics  
Dr. Wailgum

This course will introduce students to the fundamental principles of biomechanics by examining how the successful completion of sports skills are governed by the laws of physics. Videotaping and computer assisted analysis of the execution of various sports skills will serve as the laboratory component of this course. Prerequisite: ESS 261W, 351 and Phys 111Q. Three hours of lecture and three hours of lab per week. Four semester hours. (Offered every spring semester)

ESS-355. Methods of Teaching Secondary Health and Physical Education.  
Dr. Engstrom

This course will examine various philosophies of teaching health and physical education. Students will be introduced to various curriculum models in the discipline with special emphasis on outdoor and adventure education designs. Students will participate in adventure activities, group initiatives, cooperative games and problem solving activities. Principles, methods, and strategies of teaching health and physical education at the secondary level will be established. Students will explore assessment strategies, unit and lesson planning, and classroom management intervention. Three hours of lecture and two hours of laboratory. Four semester hours. (Offered every spring semester)

ESS-356. Methods of Teaching Elementary Health and Physical Education  
Dr. Engstrom

This course will investigate the history and development of teaching health and physical education. Principles, methods and strategies of teaching health and physical education at the elementary level will be established. This course includes analysis of the fundamental motor skills, examining elementary health issues and establishing developmentally appropriate instructional strategies for elementary games and gymnastics. Students will explore the spectrum of teaching styles, unit and lesson planning, and process-product analysis of learning experiences. Three hours of lecture and two hours of laboratory. Four semester hours. (Offered every fall semester)

ESS-363. Officiating  
Ms. Boyd

This course is designed for prospective teachers, coaches, and officials. Emphasis is placed on understanding, interpreting, and applying rules in team and individual sports. There will be specific instruction in soccer and basketball (fall), volleyball and softball (spring). Additionally, there will be an overview of peripheral issues that affect officiating. Three hours per week. Three semester hours. (Offered every semester)

ESS-365. Philosophy and Principles of Coaching  
Ms. Gros

This course is designed to develop a wholesome and positive philosophy for coaching young players. Students will learn how to teach techniques, tactics and strategies to various age groups. Organizing practices, setting individual and personal goals, evaluating players and basic administrative responsibilities will be covered. The class will consist of lectures, discussions, reports and practical coaching experiences. Three hours per week. Four semester hours. (Offered every spring semester)

ESS-366W. Sport Psychology  
Ms. Boyd

A comprehensive examination of sport psychology that defines the role of personality, performance, and anxiety, and how intervention
techniques can enhance performance. Social-psychological aspects of sport psychology such as aggression, group dynamics, and leadership are presented, and their application in practical situations is a major part of written work and group discussions. Three hours per week. Four semester hours (Offered every spring semester)

ESS-378. Recognition and Evaluation of Athletic Injuries Ms. Chlad
This course focuses on the recognition and evaluation of athletic injuries. It reviews the historical, postural, and functional assessment of the major joints involved in athletic injuries. Prerequisites: ESS 178, 278 and Biology 317, 318. Three hours lecture and two hours lab. Four semester hours. (Offered every fall semester)

ESS-381. Exercise Science Practicum Staff
A practicum experience in a hospital, business, coaching position, clinic and/or geriatric care center under the supervision of a practicum advisor and an on-site supervisor. An inservice project is required. Each student is expected to be on-site a minimum of 150 hours per semester. Four semester hours. (Offered every semester)

ESS-382. Clinical Practicum in Sports Medicine Staff
An off-campus clinical experience within the field of sports medicine at a staff-approved site. A research paper, one oral college presentation, and one on-site inservice presentation are required. Each student is expected to be on-site a minimum of 150 hours per semester. Prerequisites: ESS 178, 278, 378, and permission of the sports medicine staff. Four semester hours. (Offered every spring semester)

ESS-391. Independent Study Staff
Introduction to fundamental research procedures and data manipulation in Exercise and Sports Science under the direction of a faculty member. Prerequisite ESS 100 and permission of the faculty supervisor. One semester hour. (Offered every semester)

ESS-412. Exercise Science Internship Staff
A work-related experience within a Wellness/Allied Health setting, at a staff-approved site. A research paper, one oral presentation, and a minimum of one inservice presentation are required. Each student is expected to be on-site a minimum of 150 hours per semester. Open to senior ESS majors with permission of his/her advisor. Four semester hours. (Offered every semester)

ESS-462. Administration in Exercise and Sport Science Dr. Davidson
A study of the administrative theory, principles, and problems in exercise and sports science. Three hours per week. Four semester hours. (Offered every spring semester)

ESS-464. Adapted Physical Education Dr. Borsdorf
An analysis of conditions affecting the development of children with special needs. Methods for selecting and classifying such individuals will be explored, and strategies for adapting activities to meet the needs of differently-abled persons will be addressed and experienced. ESS major or permission of instructor. Three hours per week. Four semester hours (Offered odd spring semesters)

ESS-465. Health and Physical Education Teaching Seminar Engstrom
Readings, discussions, and individual research focused on pedagogy, measurement and evaluation, or some other facet of teaching health or physical education. At the conclusion of the seminar, students will present a research paper at an open meeting of the department. Prerequisite: This course can only be taken in conjunction with Education 405 and requires permission of the department. One hour per week. One semester hour. (Offered every fall semester)

NOTE: ESS 465 would be an elective course taken concurrently with Education 405. Students in the teaching track not selecting ESS 465 could complete the capstone requirement by scheduling ESS 491.

ESS-478W. Senior Seminar in Athletic Training Staff
Contemporary issues, therapeutic techniques and trends in athletic training are examined through advanced theoretical and clinical readings from current sports medicine journals. A research paper and several oral presentations
EXERCISE AND SPORT SCIENCE/ GEOGRAPHY

are required. Prerequisites: Limited to seniors applying for certification in athletic training. Three hours per week. Four semester hours. (Offered every spring semester)

ESS-485.  Pathology in Sports Medicine  Staff
This course examines the healing response of the body to soft tissue injuries, open wounds, and fractures. Common physiological adaptations to injuries, etiological factors that contribute to their occurrence, and the creation of an optimal healing environment will be the focus of this course. Prerequisites: ESS 351, 378. Two hours lecture. Two semester hours. (Offered odd spring semesters beginning in 1999)

ESS-486.  Pharmacology in Sports Medicine  Staff
This course provides an overview of drugs used by athletes for various medical conditions. Medical reasons for drug treatment, specific actions of therapeutic agents, and adverse effects and contraindications are presented. The following pharmacokinetic processes will be investigated: absorption, distribution, metabolism, and elimination. Prerequisite: CHE 105, 106/206, BIO 318 or permission of instructor. Two hours of lecture. Two semester hours. (Offered even spring semesters)

FINE ARTS
See Art, Music

FRENCH
See Modern Languages

GEOGRAPHY
Visiting Professor Boekenkamp.

GEOG-102.  Geography  Staff
Study of the major regions of the world. The purpose is to analyze each from the standpoint of climate, natural resources, and economic problems, and to give the student a fairly detailed knowledge of the physical geography of the regions. Three hours per week. Three semester hours.  

ESS-487.  Therapeutic Modalities  Staff
This course focuses on the correct treatment regimen for a variety of athletic injuries. Physiological responses of the human body to trauma and the use of therapeutic heat and cold, as well as, current sound and, electromagnetic wave forms will be examined. Prerequisites: ESS 351, 352, 178, 278, 378, and Phys 112. Three hours lecture and two hours lab. Four semester hours. (Offered odd summer sessions beginning in 1999)

ESS-488.  Therapeutic Exercise  Staff
This course reviews the objectives, indications, contraindications, and exercise progressions for the rehabilitation of athletic injuries. Prerequisites: ESS 351, 352, 178, 278, 378 and 485. Three hours lecture and two hours lab. Four semester hours. (Offered odd summer sessions beginning in 1999)

ESS-491.  Research/Independent Work  Staff
This course is open to candidates for departmental honors and to other students with a special interest in the field of exercise and sport science. Prerequisite; the permission of the departmental chair and project advisor. Four semester hours. (Offered every fall semester)

ESS-492W.  Research/Independent Work  Staff
A continuation of ESS 491. Prerequisite: ESS 491. Four semester hours (Offered every spring semester)
GEOLOGY

*Visiting Professor* Boekenkamp.

The science of geology presents to the student the physical nature and history of the earth and their relationship to the cultural, economic and political concerns of man.

**GEOL-100Q. Planet Earth**

A study of earth materials, processes and features that form the earth. This enables the student to interpret earth history as events recorded by geologic processes and organic evolution. Two hours of lecture and two hours of laboratory work per week. *Three semester hours.*

**GEOL-101. Life on Earth**

The history of life on earth is traced through geologic time. Students explore such areas as dating the past, relationship of earth's history to life development and evolution of plants and animals using fossils, study of the physiographic provinces of North America. Three class hours per week. *Three semester hours.*

**GERMAN**

*See Modern Languages*

**GREEK**

*See Classics*

**HISTORY**

*Professors* Akin, Clark (*Chair*), Doughty, Strassburger, Visser; *Associate Professors* Hemphill, King; *Lecturer* Ross.

To study history is to study the powerful interaction between the past and the present. The goals of the history department are threefold: first, to convey an understanding of the meaning of history and knowledge of its methodology; second, to nurture students' abilities to read critically, write clearly, reason logically and inferentially; and third, to offer the multicultural historical perspective that is necessary to understand the human condition and contemporary world affairs.

In addition to acquiring sound communication skills, history majors learn how to work with a vast variety of evidence, and how to evaluate the results. Moreover, the study of history is wide-ranging, as it connects all aspects of the present with the past. For these reasons, not only are there many career opportunities for history majors, but a minor in history can be combined with almost any other field.

History is good training for careers in law, business, government, the foreign service, journalism, and publishing. Moreover, those who wish to continue in history will find opportunities in teaching, historical preservation, and both management and interpretation in historical museums, sites, archives, and libraries. Historians also write and edit
publications and manage archives for the government, publishers, and many businesses. These and other career options aside, the fundamental fact, recognized by the history department and employers alike, is that a consciousness of history and its critical skills is not a luxury, but a vital part of a liberal education.

**Requirements for Majors**

History majors must take a minimum of nine courses in history. The following requirements must be fulfilled: History 200W; *two courses* in United States history (221, 321, 323, 325, 327, 328); *two courses* in European history (202, 203, 205, 207, 304, 305, 306, 308, 316, 352); *two courses* in non-Western history (241, 243, 251, 253, 343, 344); *one course* in comparative history (361, 362, 365, 366); *and one* 400-level capstone course.

All history majors are strongly encouraged by the department to participate in an approved study abroad program or to take History 381 (History Internship) or other internship course. History courses taken abroad may be counted to fulfill department requirements. Students interested in teaching history or social studies at the secondary school level should inform their faculty adviser and consult the education department booklet, *Ursinus College Teacher Education Programs*, for additional information.

**Requirements for Minors**

Students seeking a minor in history must take a minimum of *five courses* in the department, *at least one* of which must be at the 300 or 400-level. Students interested in a history minor must register with the department chair to discuss their particular interests and goals and plan a course of study.

NOTE: History 101, 102, 200W, 207 and 221 are offered annually, while History 381 (History Internship) is offered every semester. Most other history courses are offered every other year.

**HIST–101.  The History of Traditional Civilizations  Staff**

An introductory survey of the origins, development and achievements of the world’s major civilizations, with emphasis on the comparative study of their respective ideas and institutions and on the early interaction among their societies. Significant selected primary sources will be assigned and short analytic papers required. Three hours per week. Four semester hours.
HIST-102. The Emerging World  Staff
An introductory survey of the development and transformation of the world’s major civilizations in the modern era, with emphasis on the process of social, economic and political change; on the rise of “the West” to global dominance and its impact on other societies; and on the mutual interdependence of contemporary civilization. Significant selected primary sources will be assigned and short analytic papers required. Three hours per week. Four semester hours.

HIST-200W. Historiography  Staff
An introduction to the major issues and practices in the study of history. The course will include material on the “history of history” and on the methods of historical research. Students will be required to do extensive writing and revision of papers. Three hours per week. Four semester hours.

HIST-202. Topics in Medieval History  Dr. Visser
An examination of the development of the ideas and institutions that controlled Medieval society. Relevant writings in translation will be used. Three hours per week. Four semester hours.

HIST-203. Studies in Renaissance History  Dr. Visser
An examination of the cultural, economic, and social aspects of the Renaissance and their interdependence. Contemporary writings will be used in translation. Three hours per week. Four semester hours.

HIST-205. Russia and The USSR  Dr. King
An examination of major political, social, economic, and cultural themes in the history of Tsarist Russia and the Soviet Union. Four hours per week of lectures and discussion. Four semester hours.

HIST-207. The Global Century  Dr. Doughty
A survey of international relations and their domestic political, social and economic background in the 20th century, with particular emphasis on the origins and consequences of the two World Wars, the Cold War and the emergence of a global international system. Four hours per week of lecture and discussion. Four semester hours.

HIST-221. Introduction to American History  Dr. Akin, Dr. Hemphill
A survey of American history from the beginning of European settlement to the present, with an emphasis on the main themes of political and social development (the latter to include an analysis of the variables of race, class, region, ethnicity and gender). Four hours per week of lectures and discussion. Four semester hours.

HIST-241. An Introduction to the History and Culture of China  Dr. Clark
An introduction to Chinese history, with particular emphasis on late traditional (post-1600) cultural and social orders and their adaptation to the modern world up to and including the Chinese Revolution. Four hours per week. Four semester hours.

HIST-243. An Introduction to the History and Culture of Japan  Dr. Clark
An introduction to Japanese history, with particular emphasis on late traditional (post-1600) cultural and social orders, and their adaptation to the modern world through World War II and the postwar settlement. Four hours per week. Four semester hours.

HIST-299. History Tutorial  Staff
Individual study and directed reading on a selected topic in the historical literature and preparation of a critical bibliography of the works read. Open only to students majoring in history. Prerequisites: History 200 and prior consent of a member of the history department who agrees to serve as tutor. One hour per week. One semester hour. Offered as requested.
HIST–300. Special Topics in History  Staff  An elective course dealing with special subject areas and periods. Three hours per week. (Not offered on a regular basis.) *Four semester hours.*

HIST–304. Studies in Reformation History  Dr. Visser  An examination of the revolution in Christianity and its impact on the social, economic, and political institutions of the age. Contemporary writings will be used in translation. Three hours per week. *Four semester hours.*

HIST–305. State and Society in Early Modern Europe  Dr. Doughty  A study of early European modernization and the development of the sovereign state from the 16th through the 18th centuries. Theories of political sovereignty, the development of royal absolutism and the "Military Revolution" and the concomitant religious, intellectual, social and economic transformations will be emphasized. Significant time will be devoted to the historiography of the period. Three hours per week of discussion of assigned reading. *Four semester hours.*

HIST–306. Ideas and Ideologies  Dr. King  An exploration of selected movements in the history of modern European political and social thought. Specific content may vary but will include such topics as liberalism, nationalism, racism, and socialism. Extensive readings in original sources, written analyses, and discussion. Three hours per week. *Four semester hours.*

NOTE: Students who have completed the former History 364 may not take this course for additional credit.

HIST–308. Nazi Germany and the Holocaust  Dr. Doughty  A study of the rise of Adolf Hitler, the development of the National Socialist Party and the "Hitler State," German society under the Nazis, and the origins and implementation of the racial and foreign policies of the Third Reich. Significant time will be devoted to the historiography of the subject. Three hours per week of discussion of assigned readings. *Four semester hours.*

HIST–316. Warfare and Society  Dr. Doughty  A study of selected topics in the history of warfare from c. 5th century BCE to the present. Diplomacy, military organization, strategy and tactics will be studied in their social, economic, technological and political context. Three hours per week. *Four semester hours.*

HIST–321. Colonial and Revolutionary America  Dr. Hemphill  A survey of the history of the British colonies in America, from their founding through the War for American Independence. Special attention will be given to the genesis of American culture and institutions from diverse societies. Significant time will be devoted to the historiography of the period. Three hours per week. *Four semester hours.*

HIST–323. The Young American Nation and the Civil War  Dr. Hemphill  A survey of the history of the new American nation from its initial foundation in the Constitution period through its testing in the Civil War. Special emphasis will be given to the development of uniquely American politics and culture. Significant time will be devoted to the historiography of the period. Three hours per week. *Four semester hours.*

HIST–325. The Emergence of Industrial America  Dr. Akin  The course examines the United States from the end of the Civil War to the end of World War I. The course will focus on the interrelationships between economic changes and changes in social structures (including sex, age, class, and race), popular culture and thought, and politics. Prerequisite: History 221 or Politics 218, or Sociology 245. Three hours per week. *Four semester hours.*

HIST–327. 20th-Century America  Dr. Akin  The course examines the United States from 1919 to the present. The course will focus on the interrelationships between changes in the economic structure, social structure, politics and popular culture and thought. Prerequisites: History 221, or Politics 218, or Sociology 245. Three hours per week. *Four semester hours.*
HIST-328. Women in American History  
Dr. Hemphill  
An examination of the changing experience of American women from colonial times to the present. The focus of this course will be the interaction of that experience with ideal roles for women in the realms of family, religion, politics, economics, and social life. Attention will also be paid to the interaction of gender with the variables of class, race, ethnicity, and region. Three hours per week. Four semester hours.

HIST-343. The History of Chinese Thought and Religion  
Dr. Clark  
A survey of Chinese thought and religion from the foundations of Confucianism and Taoism through the Buddhist and Neo-Confucian reformations. The course will focus on primary source readings and interpretation. Three hours per week. Four semester hours.

HIST-344. Society and Revolution Southeast Asia  
Dr. Clark  
An examination of the origins of conflict in Southeast Asia from the 19th century to the present. Will approach the issue from the perspective of the societies themselves in an attempt to understand the domestic stresses, resulting from both internal and external change, which produced the post-World War II upheavals, as well as the motivations of the Western powers that intervened. Three hours per week. Four semester hours.

HIST-361. East and West in the 13th Century  
Dr. Clark  
A comparison/contrast of China and Western Europe on the eve of such events as the Mongol invasions, the Black Death, and the like. The course will focus particularly on economic, social and institutional structures. Three hours per week. Four semester hours.

HIST-362. The Age of Revolution  
Dr. Doughty  
An examination of the “Dual Revolution” — the cumulative effects of the French and Industrial Revolutions — and the impact of political, economic and technological change on European society and the world in the period c. 1780 - 1900. Significant time will be devoted to the historiography of the topic. Three hours per week of discussion of assigned reading. Four semester hours.

HIST-365. Empires and Nations  
Staff  
A comparative history of the emergence of nationalism among the subject peoples of multinational empires in the nineteenth and twentieth centuries: Western Europe’s overseas empires, the Russian/Soviet empire, the Austrian Empire, and the Ottoman Empire. The course will focus on theories of imperialism and of nationalism, and on the perspective of the societies struggling for national independence. Three hours per week. Four semester hours.

HIST-366. History of the Family  
Dr. Hemphill  
A survey of the changing structure and function of the family in Europe and America from 1500 to the present. Special attention will be paid to the relationship between changes in the family and changes in the wider society; the family as the locus for changing gender and age relations; and the variations in family forms dictated by class, race, ethnicity, religion, and region. Three hours per week of lectures and discussion. Four semester hours.

HIST-381. History Internship  
Staff  
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chairman of the department for further details. Prerequisites: Junior standing, 12 credits in history (excluding 101, 102) and approval of a faculty internship adviser. Four semester hours.

HIST-400W. Research  
Staff  
Independent research, under the guidance of an adviser, directed toward the production and oral presentation of a historical project or paper. Open only to fourth-year students with the permission of the chair of the department of history. Prerequisite: History 200W or equivalent. (Offered as needed) Four semester hours.

HIST-401W. Seminar in European History  
Staff  
Readings and individual research on topics of European history, leading to preparation, oral presentation and discussion of research papers. Open to third- and fourth-year students.
HISTORY/INTERDIVISIONAL STUDIES

Prerequisite: History 200W or equivalent. Three hours per week. *Four semester hours.*

HIST–421W. Seminar in American History

Readings and individual research on topics of American history, leading to preparation, oral presentation and discussion of research papers. Open to third- and fourth-year students. Prerequisite: History 200W or equivalent. Three hours per week. *Four semester hours.*

HIST–442W. Seminar in East Asian, Middle Eastern, or African History

Readings and individual research on topics of non-Western history, leading to preparation, oral presentation and discussion of research papers. Open to third- and fourth-year students. Prerequisite: History 200W or equivalent. Three hours per week. *Four semester hours.*

HIST–462W. Seminar in Comparative History

Readings and individual research on topics in comparative history leading to preparation, oral presentation and discussion of research papers. Open to third- and fourth-year students. Prerequisite: History 200W or equivalent. Three hours per week. *Four semester hours.*

HIST–491W. Research/Independent Work

This course is open to candidates for departmental honors and to other students with the permission of the department chair. Prerequisites: History 200W and the permission of the department. *Four semester hours.*

NOTE: HIST 491 does not fulfill the capstone requirement.

HIST–492W. Research/Independent Work

A continuation of course 491. Open only to candidates for honors. Prerequisites: HIST 491 and permission of the department. *Four semester hours.*

INTERDIVISIONAL STUDIES

IDS–101. World Literature I: The Literary Tradition

Critical reading of selected representative works from Western and non-Western literatures from early civilization through the European Renaissance. The epic and drama will be emphasized. Three hours per week. *Four semester hours.*

*(See also URSINUS IN SEVILLA program)*

IDS–102. World Literature II: Topics in Comparative Literature

Critical reading of selected works, with emphasis on 19th- and 20th-century non-Western literatures, in a comparative and pluralistic context. Three hours per week. *Four semester hours.*

IDS–201, 202, 203. Independent Study

Guided independent study involving more than one academic discipline for second-term freshmen, sophomores, juniors, and seniors. Projects will result in a major paper or creative project. Project proposal requires a faculty sponsor and approval of the Interdisciplinary Independent Study Committee. *Four semester hours.*

IDS–200. Women's Studies

An interdisciplinary course to promote an awareness and understanding of men's and women's potential and options in our society. Readings and discussions in history, gender and gender roles, women and society, women's place in the working world, in legal and religious institutions. Open to upperclass students. Four hours per week. *Four semester hours.*

IDS–332. Latin American Studies

*(see also Spanish)*

An interdivisional approach to the study of Latin America. The development of the history, politics, society and literature of Latin American nations will be examined. Readings will be selected from the works of major intellectual figures and writers. Emphasis will be on the 20th century. Weekly lectures, films, and class discussions. The language of instruction is English. Open to upperclass students. Four hours per week. *Four semester hours.*
IDS-350. Human Sexuality  Dr. England
A study of the development and expression of human sexuality through the ages and through the lifespan of the individual. Alternate orientations, variances and sexual dysfunctions, disorders and diseases are also considered.
Prerequisites: Biology 100 or 111, and Psychology 100 or permission of the instructor.
Three hours of lecture per week. *Three semester hours.*

LATIN
See Classics

LIBERAL STUDIES

The goals of the Liberal Studies Seminar are 1) to develop a student’s ability to think critically through a pedagogy which stresses the intellectual process; 2) to foster the essential skills of critical reading, effective speaking, and clear writing; 3) to develop these skills within the intellectually challenging context of a broad theme relevant to the human condition; 4) to enable the student to make connections across the traditional disciplines.

All first-year students are required to enroll in a Liberal Studies Seminar during the fall or spring semester of their first year; transfer students may be exempted with the approval of the dean of the College.

All Liberal Studies Seminars share common features. The enrollment is limited to 15 students to provide an atmosphere conducive to discovery and inquiry. Faculty members from a variety of disciplines lead students to reflect about significant issues that introduce them to the intellectual climate of the College. Reading assignments consist of five or six books or their equivalents. Frequent writing and oral assignments are required throughout the course.

During the 1996-97 academic year, the course was organized around the theme of The World As A Text. All topics related to the main theme and had interdisciplinary implications while grounded in the expertise of individual instructors. Topics were listed in a supplemental brochure. In 1996-97, topics included: The Case For Evolution; Leadership; Alexander The Great and His World As Text; Community, Responsibility, Caring: A Renewed Social Vision?; Conceptualizing Controversy: Perspectives on American Dilemmas; Signs and Wonders In The Ancient World; Winning At All cost; Sport: A Critical Perspective; Signs of Life; Nations, Races, and Species; State Of The World; Philadelphia Story: The City As Text; A World Divided; Good And Evil; The World Of Human Beings: A Text for Leadership; Faith, War, and Elvis: Art As A Mirror Of The World.
LS-100. Liberal Studies Seminar  
Staff  
This seminar, required of all first-year students, is designed to develop the students' ability to think critically and to write and speak effectively. In each seminar, organized around a common theme, students will explore an issue with interdisciplinary implications. Through the analysis of readings or other material such as films, intensive writing and group discussions, students will participate in the challenges of intellectual inquiry. Four hours per week. Four semester hours.

MATHEMATICS AND COMPUTER SCIENCE  
Professors Coleman, Hagelgans, Jessup (Chair), Shuck; Associate Professor Neslen; Assistant Professors Lorentz, Thiel; Lecturers Carroll, Wait.

The general aims of the department of mathematics and computer science are (1) to give the students a grasp of the ideas and methods of mathematics and computer science; (2) to develop an understanding and appreciation of mathematics as an abstract deductive system; (3) to give the students an appreciation of the historical importance of mathematics in the progress of civilization, both past and present; and (4) to provide the students with sufficient skills to enable them to apply their knowledge to related fields of study.

For students majoring in mathematics or computer science, the department aims to provide stimulation and preparation for (1) continued study at the graduate level; or (2) effective teaching in the secondary schools; or (3) employment in industrial research, statistics, computing, or actuarial positions. For other majors, it seeks to provide the mathematical competence required by the increasing quantitative emphasis in many of these disciplines.

NOTE:  
Students who major in mathematics or computer science are encouraged to elect either a minor in another discipline or additional courses in mathematics and computer science. The latter is especially recommended for students planning to do graduate work in mathematics or a related discipline.

COMPUTER SCIENCE  
Requirements for Computer Science Majors  
A student majoring in computer science is required to take Math 111, 112, 236W, and CS 271 and 272; two of the mathematics courses Math 211, 235, 341, 434, 462; and at least four of the computer science courses CS 371, 372, 373, 374, 471, 472, including either CS 471 or 472.
Recommendations for Computer Science Majors
Recommended ancillary courses are Physics 111, 112, 121, 122, 209 and Economics 100. Additional recommended mathematics courses are Math 214, 241, and 342.

Requirements for Computer Science Minors
A minor concentration in computer science consists of Math 111, 112, 236W; CS 271, 272; and two courses from CS 371, 372, 373, 374.

CS-271. Computer Science I  Dr. Jessup

CS-272. Computer Science II  Dr. Jessup
A continuation of CS 271. Introduction to algorithm analysis and data structures. Larger programs. Team projects and/or incremental projects. Prerequisite: CS 271. Three hours per week. Four semester hours.

CS-371. Data Structures and Algorithms  Dr. Hagelgans
Review of lists, complexity of algorithms, searching and sorting algorithms, tables, hashing, recursion, tree and graph algorithms. Offered in the fall of odd years. Prerequisites: Math 111 and CS 272. Three hours per week. Four semester hours.

CS-372. Computer Organization  Dr. Hagelgans
Hierarchical structure of computer architecture, number systems, arithmetic operations, codes, switching algebra, logic gates, assembly language programming. Prerequisite: CS 271. Offered in the spring of even years. Three hours of lecture and two hours of laboratory per week. Four semester hours.

CS-373W. Theory of Computation  Dr. Hagelgans
Principles of formal languages, automata, computability and computational complexity. Emphasis on writing proofs of theorems. Prerequisites: English 100, Math 236W and CS 272. Offered in the fall of even years. Three hours per week. Four semester hours.

CS-374. Principles of Programming Languages  Dr. Hagelgans
Syntax, processors, representations and styles of programming languages. Study and comparison of several modern programming languages. Offered in the spring of odd years. Prerequisite: CS 272. Three hours per week. Four semester hours.

CS-381. Internship  Dr. Hagelgans
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in computer science and approval of a faculty internship adviser. Eight to 10 hours per week. Three semester hours.

CS-383. Internship  Dr. Hagelgans
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in computer science, and approval of a faculty internship adviser. 11 to 14 hours per week. Four semester hours.

NOTE: Students may receive credit for only one internship.

CS-391. Research/Independent Work  Staff
Independent investigation of an area of computer science not covered in regular courses. Prerequisite: Written consent of a department faculty member. Offered in the fall semester. One semester hour.
CS-392. Research/Independent Work  Staff  
Independent investigation of an area of computer science not covered in regular courses. 
Prerequisite: Written consent of a department faculty member. Offered in the fall semester. 
Two semester hours.

CS-393. Research/Independent Work  Staff  
Independent investigation of an area of computer science not covered in regular courses. 
Prerequisite: Written consent of a department faculty member. Offered in the spring semester. 
One semester hour.

CS-394. Research/Independent Work  Staff  
Independent investigation of an area of computer science not covered in regular courses. 
Prerequisite: Written consent of a department faculty member. Offered in the spring semester. 
Two semester hours.

CS-471. Seminar in Computer Science I  Dr. Jessup  
A detailed study of an advanced topic in computer science such as software design, object-oriented programming, operating systems, parallelism, artificial intelligence, neural networks, or database design. This course will satisfy the College requirement for a capstone experience and an oral presentation in the major. Prerequisites: CS 272 and written permission of the instructor. Usually offered in the fall semester of odd years. Three hours per week. Four semester hours.

CS-472. Seminar in Computer Science II  Dr. Jessup  
The course will cover topics similar to those listed in CS 471. This course will satisfy the College requirement for a capstone experience and an oral presentation in the major. Prerequisites: CS 272 and written permission of the instructor. Usually offered in the spring semester of odd years. Three hours per week. Four semester hours.

CS-491. Research/Independent Work  Staff  
Independent investigation of an area of computer science not covered in regular courses. 
An oral presentation to the department is required. Prerequisites: Written consent of a member of the staff to serve as an adviser. Four semester hours.

CS-492. Research/Independent Work  Staff  
Content and prerequisites as in CS 491. Four semester hours.

MATHEMATICS

Requirements for Mathematics Majors
A student majoring in mathematics is required to take Math 111, 112, 211, 235, 236W, and CS 271, and at least four courses in mathematics or computer science at the 300- or 400-level (excluding CS 372), including two of the following sequences:

1. Math 311 plus one of 312, 321, 411, 462 (prerequisite 214)
2. Math 335 plus one of 336, 434
3. Math 341 and 342

Recommendations for Mathematics Majors
Economics 100 and Physics 111, 112, 121, 122 are recommended. Students planning to do postgraduate work in mathematics should take Math 311, 312, 321, 335, 336, and 411. Students planning to seek jobs in industry should take Math 214, 341, 342, and 462. Students preparing for...
work in the computing field should take CS 272, 371, 372, and at least one of 373, 374, 471, 472.

Secondary Certification
Students preparing for secondary teaching must major in mathematics, and take Math 322, 335, 341, 382, 434, and either 241 or 342 to satisfy the mathematics part of certification requirements. These students may substitute Math 241 for Math 342 in the major requirements. As many of the following as possible are recommended: Math 214, 311, 321, 336. Details may be obtained from the department of mathematics and computer science or education. Those students preparing for secondary teaching should consult the education department booklet, Ursinus College Teacher Education Programs.

Requirements for Mathematics Minors
A minor concentration in mathematics consists of Math 111, 112, 211, 235; and two additional courses in mathematics chosen from 214, 236W, 311W, 312, 321, 322, 335, 336, 341, 342, 411, 434, 462, at least one of these courses being at the 300 or 400 level.

A minor concentration in statistics consists of Math 111, 112, 211, 242, 341, 342.

MATH-100. Mathematics for the Liberal Arts Ms. Carroll
A cultural and historical approach to mathematics. Appreciation of the beauty and creative aspects of mathematics and its role in nature and the arts. Essay tests and papers as well as problems using deductive reasoning. Three hours per week. Four semester hours.

MATH-105. Calculus for Economics and Business Ms. Wait
Conceptual understanding of differential and integral calculus. Some classical applications as well as applications to economics and business. Offered spring semester. Four hours per week. Four semester hours.

NOTE: A student may not receive credit for both Math 105 and 111. A student who has received credit for Math 111 may not enroll in Math 105.

MATH-110. Precalculus Ms. Carroll
A review of algebra, functions and graphs, exponential and logarithmic functions, circular and trigonometric functions. This course prepares the student for Math 111. Offered in the fall semester. Four hours per week. Four semester hours.

MATH-111. Calculus I Staff
Limits; derivatives; applications of derivatives; integrals; trigonometric, logarithmic, and exponential functions and their applications. Prerequisite: Placement based on the high-school record and a diagnostic review, or a grade of C- or better in Math 110. Offered both semesters. Four hours per week. Four semester hours.

NOTE: A student may not receive credit for both 105 and 111. A student who has received credit for Math 111 may not enroll in Math 105.

MATH-112. Calculus II Dr. Lorenz, Dr. Coleman
A continuation of Math 111. Inverse trigonometric functions, techniques of integration, applications of integration, improper integrals, indeterminate forms, polar coordinates, parametric equations, infinite
sequences and series. Prerequisite: A grade of C- or better in Math 111 or permission of the department. Offered both semesters. Four hours per week. Four semester hours.

MATH-214. Differential Equations and Mathematical Models
Dr. Shuck

MATH-235. Linear Algebra
Dr. Lorenz
Systems of linear equations, matrix theory, real vector spaces, linear transformations, eigenvectors and eigenvalues, inner products, orthogonal transformations, quadratic forms, applications. The computer as a computational tool. Prerequisite: Math 111 or permission of the instructor. Four hours per week. Four semester hours.

MATH-236W. Discrete Mathematics
Dr. Hagelgans
A course designed to bridge the gap between computation-oriented introductory courses and proof-oriented advanced courses. The language of contemporary mathematics, including the proper way to write mathematics, and the nature of mathematical reasoning. Extensive writing projects. Topics studied may include axiomatic systems, logic, set theory, functions, mathematical induction, graph theory and trees. Prerequisites: Math 111 and English 100. Three hours per week. Four semester hours.

MATH-241Q. Statistics I
Staff
Statistical methods of studying data, measures of central tendency and dispersion, probability, and distributions including: binomial, normal, and Student’s t; confidence intervals and hypothesis testing. Computer statistical packages. Offered both semesters. Four hours per week. Four semester hours.

NOTE: Students with credit for Math 342 may not enroll in Math 241.

MATH-242. Statistics II
Dr. Jessup
A continued study of basic statistical techniques including basic concepts of experimental design, techniques of analysis of variance, methods of regression analysis, linear models, chi-square tests and non-parametric statistics. Prerequisite: Math 241 or 342. Three hours per week. Four semester hours.

MATH-311W. Introduction to Analysis I
Dr. Lorenz
An introduction to the real number system and theoretical treatment of limits, continuity, and differentiability. Additional topics may include sequences and series, abstract metric spaces, and countability. Emphasis on writing mathematical proofs. Prerequisites: English 100, Math 211 and 236W. Three hours per week. Four semester hours.

MATH-312. Introduction to Analysis II
Dr. Shuck
A continuation of Math 311. The Riemann integral, infinite series, sequences and series of functions, introduction to metric spaces. Prerequisite: Math 311. Offered in the spring of odd years. Three hours per week. Four semester hours.

MATH-321. Introduction to Topology
Dr. Hagelgans
Elementary point set topology; metric spaces; topological spaces, separation axioms, compactness, connectedness. Prerequisite: Math 236W or permission of the instructor. Offered in the fall of odd years. Three hours per week. Four semester hours.
MATH–322. Fundamentals of Geometry  
**Dr. Lorenz**
Axiomatic development, introduction to non-Euclidean geometry, projective geometry and modern geometry. Prerequisite: Permission of the instructor. Offered in the spring of odd years. Three hours per week. *Four semester hours.*

MATH–335. Abstract Algebra I  
**Dr. Hagelgans**
An introduction to algebraic structures, with emphasis in the first semester on groups. Subgroups, quotient groups, homomorphisms, isomorphism theorems, Cayley’s theorem, permutation groups. Prerequisites: Math 235 and 236W. Three hours per week. *Four semester hours.*

MATH–336. Abstract Algebra II  
**Staff**
A continuation of Math 335. Ring theory, integral domains and principal ideal domains, polynomial rings, fields leading to Galois theory and solvability by radicals. Classical origins of modern abstract algebra. This course will satisfy the College requirement for a capstone experience and an oral presentation in the major. Prerequisite: Math 335. Three hours per week. *Four semester hours.*

MATH–341. Probability  
**Dr. Neslen**
An introduction to probability theory, discrete and continuous probability distributions, moments and moment-generating functions of random variables, transformations of random variables. Prerequisite: Math 211. Four hours per week. *Four semester hours.*

MATH–342. Mathematical Statistics  
**Dr. Neslen**
The mathematical background of modern statistics, including the development of sampling distributions, the theory and application of estimation, tests of hypotheses, regression and correlation, and analysis of variance. This course will satisfy the College requirement for a capstone experience and an oral presentation in the major. Prerequisite: Math 341. Three hours per week. *Four semester hours.*

MATH–381. Internship  
**Dr. Hagelgans**
An off-campus academic/work experience under the supervision of an internship adviser and on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in mathematics and approval of a faculty internship adviser. Eight to 10 hours per week. *Three semester hours.*

MATH–382. History of Mathematics  
**Dr. Shuck**
Mathematical thought from ancient times to the early 1800s. Topics from the modern era may be included. Prerequisite: Permission of the instructor. Offered in the spring semester of even years. Three hours per week. *Four semester hours.*

MATH–383. Internship  
**Dr. Hagelgans**
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in mathematics, and approval of a faculty internship adviser. Eleven to 14 hours per week. *Four semester hours.*

NOTE: Students may receive credit for only one internship.

MATH–391. Research/Independent Work  
**Staff**
Independent investigation of an area of mathematics not covered in regular courses. Prerequisite: Written consent of a department faculty member. Offered in the fall semester. *One semester hour.*

MATH–392. Research/Independent Work  
**Staff**
Independent investigation of an area of mathematics not covered in regular courses. Prerequisite: Written consent of a department faculty member. Offered in the fall semester. *Two semester hours.*

MATH–393. Research/Independent Work  
**Staff**
Independent investigation of an area of mathematics not covered in regular courses. Prerequisite: Written consent of a department faculty member. Offered in the fall semester. *Two semester hours.*
MA \[ \text{THEMA}\] \[ \text{TICS}\] \[ \text{AND COMPUTER SCIENCE}\] \[ \text{MODERN LANGUAGES}\]

faculty member. Offered in the spring semester. \textit{One semester hour.}

MATH–494. Research/Independent Work \text{Staff}

Independent investigation of an area of mathematics not covered in regular courses. Prerequisite: Written consent of a department faculty member. Offered in the spring semester. \textit{Two semester hours.}

MATH–411. Functions of a Complex Variable \text{Dr. Shuck}

An introduction to the theory of analytic functions, including elementary functions, contour integrals, Taylor and Laurent series, and residue theory. Prerequisite: Math 211. Offered in the fall semester of even years. Three hours per week. \textit{Four semester hours.}

MATH–434. Theory of Numbers \text{Dr. Lorenz}

Divisibility; unique factorization; congruences; theorems of Fermat, Euler and Wilson; primitive roots; Diophantine equations; Fermat's conjecture; algebraic and transcendental numbers; Liouville's theorem. Additional topics chosen from quadratic reciprocity; continued fractions; sums of squares; distribution of primes; quadratic fields; public-key cryptography. This course will satisfy the College requirement for a capstone experience and an oral presentation in the major. Prerequisite: Permission of the instructor. Offered in the spring of even years. Three hours per week. \textit{Four semester hours.}

MATH–451. Topics in Advanced Mathematics I \text{Staff}

A course designed to acquaint the student with modern trends in advanced topics in mathematics and its applications. The course will be adapted to the students' preferences and needs. Prerequisite: Permission of the instructor. Three hours per week. \textit{Four semester hours.}

MATH–452. Topics in Advanced Mathematics II \text{Staff}

A course designed to acquaint the student with modern trends in advanced topics in mathematics and its applications. The course will be adapted to the student's preferences and needs. Prerequisite: Permission of the instructor. Three hours per week. \textit{Four semester hours.}

MATH–462. Numerical Analysis \text{Dr. Jessup}

Selected topics from numerical analysis are presented. These may include solving systems of linear equations, linear and nonlinear differential equations, numerical integration and differentiation, eigenvalue problems, error analysis, interpolation and approximation. The computer will be used. Prerequisites: Math 214 and an ability to program. Offered in the fall semester of even years. Three hours per week. \textit{Four semester hours.}

MATH–491. Research/Independent Work \text{Staff}

Independent investigation of an area of mathematics not covered in regular courses. An oral presentation to the department is required. Prerequisite: Written consent of a member of the staff to serve as an adviser. \textit{Four semester hours.}

MATH–492. Research/Independent Work \text{Staff}

Content and prerequisite as in Math 491. \textit{Four semester hours.}

MODERN LANGUAGES

\textit{Professors} Clouser (Chair), Eaton, Espadas, Hall, Lucas, Novack, Thelen; \textit{Associate Professor} Cameron; \textit{Assistant Professor} de Arana; \textit{Instructor} Inoue; \textit{Lecturers} Castells-Talens, Gayman, Hardin, Lüttcher, Monheit, Zabegailo.

The Modern Language Department aims, in its elementary and intermediate courses, to develop students' linguistic ability and understanding of a foreign culture and to introduce them to its literature.
More advanced courses seek to perfect the use of the oral and written language, to study foreign societies and cultures, and to explore the foreign literature in order to develop faculties of analysis and aesthetic judgment.

Majors should enrich their studies with courses in other literatures and relevant languages, European history and thought, and the fine arts and music. Majors interested in international affairs, business or diplomacy should choose appropriate courses from the departments of economics and business administration, history and politics. Students planning to pursue graduate study are especially advised to take courses in a second foreign language, world literature, and history, as appropriate. Similarly, students with international interests who are majors in other departments should formulate a minor in French, Spanish, or German to suit their goals. The varied activities of the language clubs add to the department’s offerings.

Requirements for Majors (see individual languages)

Students planning to obtain certification for secondary-school teaching in French, German or Spanish must take a minimum of 24 credit hours in French, German or Spanish at the 200, 300 and 400 levels. The following courses are required: French 251; 252 or 254; 313 or 314; 328, and at least two 300- or 400-level courses; German 251 and 252; 313 or 314; 328 and at least two 300- or 400-level courses; Spanish 251, 252, 317, 328 and at least two 300- or 400-level courses. Students seeking certification in Japanese are required to take the following courses: Japanese 211, 212, 301, 328; English 224; History 243, or Politics 346; and East Asian Studies 299, or 314, or 401. In addition to the course requirements, students are required to pass a qualifying examination before they will be admitted to candidacy for certification and a competency examination before being certified. These tests will examine students’ linguistic competence, orally and in writing, testing phonetics, conversation, grammar and composition. The exit exam will also check their knowledge of French, German, Japanese, or Spanish literature and culture, including the arts, history and geography. Students and their advisers should consult the education department booklet: *Ursinus College Teacher Education Programs*. Language majors and students preparing for certification are required to supplement their work at Ursinus by spending a summer, a semester or an entire year in a foreign country with a program approved by the department. Exceptions to this policy may be made by petition to the department chair.

Students who wish to satisfy the language requirement in a modern language will be placed in the appropriate language class based on background and the results of the Foreign Language Diagnostic Test.
MODERN LANGUAGES

Requirements for Minors
A minor concentration in French consists of 251 and 16 additional credits of French at the 200, 300 or 400 level.

A minor concentration in German consists of German 251 and 16 additional credits of German at the 200, 300 or 400 level.

A minor concentration in Spanish consists of Spanish 251 or 252, and 16 additional credits of Spanish at the 200, 300 or 400 level, excluding Spanish 332.

A minor concentration in Latin American studies consists of Spanish 252, 317, 332, and eight additional credits from the following courses: Spanish 200, 203 and 209, 351, 352, Politics 242, 344, 355.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES
The ESOL course is meant to be taken during the first year at Ursinus during which many foreign students may have adjustment problems.

ESOL-100. English for Speakers of Other Languages Ms. Monheit
A developmental course for non-native speakers. Introduction to the structure and style of American academic English. Review of grammar to perfect oral and written communication. Four hours per week plus one hour of tutoring per week. Four semester hours.

ML-100, 101, 102. Modern Languages Staff
Individualized study of languages, such as Italian, Hebrew and others. Prerequisite: Permission of the instructor. Four semester hours. (These courses do not satisfy the College language requirement for graduation.)

FRENCH

French majors are required to take at least 36 credit hours in French language, literature, and civilization above the 100 level. French 251, 252 or 254 and at least one 400-level W course are required, as well as a study abroad experience as approved by the department.

FREN-101. Elementary French I Staff
Development of the four skills of listening, speaking, reading and writing. Designed for beginners or students with little or no recent study of the language. Four hours per week plus one hour of language lab. Four semester hours.

FREN-102. Elementary French II Staff
Continuation of French 101. Four hours per week plus one hour of language lab. Four semester hours.

FREN-111. Intermediate French I Dr. Novack
Conversation and vocabulary development; grammar review, written work and discussions are based on cultural, social and literary selections. Prerequisite: French 102 or equivalent. Four hours per week plus one conversation hour with the language assistant. Four semester hours.
FREN-112. Intermediate French II  
**Dr. Novack**  
Continued emphasis on comprehension and speaking. Reading in literary and cultural texts and longer writing assignments. Prerequisite: French 111 or equivalent. Four hours per week plus one conversation hour with the language assistant. *Four semester hours.*

FREN-201. Conversation and Composition  
**Dr. Hall**  
Intensive review of grammar to perfect oral and written communication. Topics of discussion will focus on contemporary French society using newspaper articles, films and literary texts. Writing will be both formal and informal. Prerequisite: French 112 or equivalent. Four hours per week plus one conversation hour with the language assistant. *Four semester hours.*

FREN-202. Film and Literature  
**Dr. Hall**  
A study of French culture as reflected through its literature and film. A special emphasis will be put on the adaptation of literary works into films. Prerequisite: French 201 or permission of instructor. Four hours per week plus one conversation hour with the language instructor. *Four semester hours.*

FREN-203. Studies of Senegal  
**Staff**  
Study of contemporary Senegal, especially the indigenous and European influences which have contributed to modern Senegalese culture, as concrete preparation for future study abroad in Senegal. French 203 includes essential information on Senegalese geography, history, politics, customs, languages, society, literature, and the arts. Readings come from works of major Senegalese writers and authentic cultural documents. Class discussion in French, guest speakers, Senegalese films. Fall semester. Prerequisite: French 112 or permission of instructor. This course does not satisfy the language requirement unless it is taken with French 209. *Two semester hours.*

FREN-209. Winter Study in Senegal  
**Staff**  
A two-week language course, including 30 hours of classroom study, homestay with a Senegalese family, afternoon excursions and weekend travel directed by Ursinus faculty. Offered during winter break. Students may register for French 209 as part of the regular load for either semester. Prerequisite: French 203 or permission of the instructor. This course may be used to fulfill the language requirement only if taken twice or in conjunction with French 203. *Two semester hours. May be taken for credit twice.*

FREN-251. Introduction to French Literature  
**Dr. Lucas**  
A selection of major French writers from the Middle Ages to the present. Special attention will be given to the socio-cultural context from which their narratives emerged. Students will also be introduced to literary analysis and to formal writing. Prerequisite: French 201 or permission of the instructor. Four hours per week. *Four semester hours.*

FREN-252. Le Monde francophone  
**Dr. Lucas, Dr. Novack, Dr. Hall**  
A study of major writers from Francophone countries from the 19th and 20th centuries. This team-taught course will examine how colonization and its aftermath have shaped the issues of language, identity, class and gender in French-speaking literature of Canada, Africa and the Caribbean. Prerequisite: French 201 or permission of instructor. Four hours per week. *Four semester hours.* This course will be offered in the Spring term of odd-numbered years and will alternate with French 254.

FREN-254. Contes et nouvelles  
**Staff**  
A study of various short texts, "contes," "nouvelles" and "récits" from French-speaking authors from the 18th century to the present. Emphasis will be placed on the development of the genre as influenced by historical, social and gender issues. Authors selected include Voltaire, Maupassant, Mérimé, Colette, Mandiargues, Roy, Camus, Beauvoir, Hébert, Diop, Ousmane and others. Prerequisite: French 201 or permission of the instructor. Four hours per week. *Four semester hours.* This course will be offered in the Spring term of even-numbered years and will alternate with French 252. All 300-level courses are offered in rotation.
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FREN-313. French Culture and Society  
Dr. Lucas
A study of France from the Old Regime to the Second World War. Students will examine social conditions, artistic achievements, and intellectual and philosophical developments. In addition to basic texts, films, slides and original documents will be utilized. Writing assignments and oral presentation are required. Prerequisite: Two courses at the 200 level or permission of the instructor. Four hours per week. Four semester hours.

FREN-314. France Today  
Dr. Hall
A study of the forces of change and tradition in contemporary French society through an examination of the political, social and cultural developments of the past 30 years. Prerequisite: Two courses at the 200 level or permission of the instructor. Four hours per week. Four semester hours.

FREN-318. Commercial and Economic French  
Dr. Novack
Study of the economy, business organization and commercial practices of France and French-speaking countries, with special attention to France’s role in the European Union. Prerequisite: French 201, 202 or permission of the instructor. Four hours per week. Four semester hours.

FREN-328. Advanced Grammar and Translation  
Dr. Novack
French phonetics, morphology and syntax, with emphasis on problems related to the teaching of the language. Frequent translations focus on structural differences between French and English. Prerequisite: Two semesters at the 200-level. Four hours per week. Four semester hours.

FREN-335. Independent Study in French  
Staff
Individual study of topics in French literature and civilization. May also be used in preparation for research or internship abroad. Prerequisites: Two 200-level courses and permission of instructor. Two to four semester hours.

FREN-340. 20th-Century Novel  
Dr. Hall
The development of the French novel of the 20th century from Proust to the writers of the new novel. Authors studied include Colette, Malraux, Sartre, Camus, Beauvoir, Duras and others. Prerequisites: French 251; 252 or 254, or permission of the instructor. Three hours per week. Four semester hours.

FREN-350. 19th-Century Novel  
Dr. Novack
The evolution of the French novel with emphasis on Stendhal, Balzac, Flaubert and Zola. Prerequisites: French 251; 252 or 254, or permission of the instructor. Three hours per week. Four semester hours.

FREN-360. 18th-Century Literature  
Dr. Novack
Human nature, liberty, reason and their limits as seen in Enlightenment writing before the Revolution of 1789. Readings from Voltaire, Diderot, Rousseau, Laclos and others. Prerequisites: French 251; 252 or 254, or permission of the instructor. Three hours per week. Four semester hours.

FREN-370. 17th-Century Classicism  
Dr. Novack
Classical French literature with emphasis on the theater of Corneille, Molière and Racine. Prerequisites: French 251; 252 or 254, or permission of the instructor. Three hours per week. Four semester hours.

FREN-381. Internship  
Staff
An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in French, and approval of a faculty internship adviser. Twelve to 16 hours per week. Four semester hours.

FREN-440W, 441W. Seminar in Francophone Literature and Culture  
Staff
These courses are offered on a rotating basis and subjects will be determined according to students’ background and interest. The seminars will take a thematic approach and topics may include the following: “In Search of French Identity,” “Literature from French-speaking Africa,” “The Poetic Quest: Baudelaire, Verlaine, Rimbaud,” “La condition féminine: Pisan, Sand, Beauvoir,” “Colonizers and Colonized,” “Coming of age in French-speaking Literature,” “Rebels and Revolutionaries.” These
courses satisfy the College requirement of a capstone experience. Prerequisites: French 340, or 350, or 360, or 370 or permission of the instructor. CST 201 [CA 100] is highly recommended. Three hours per week. Four semester hours.

FREN–491. Research/Independent Work Staff
This course is open to candidates for departmental honors and to other students with the permission of the department chair. This course does not satisfy the College requirement of a capstone experience. Four semester hours.

FREN–492W. Research/Independent Work Staff
A continuation of course 491. This is a writing-intensive course and at least one formal oral presentation is required. This course satisfies the College requirement of a capstone experience. Prerequisites: English 100, French 491 and permission of the department chair. CST 201 [CA 100] is highly recommended. Four semester hours.

GERMAN
German majors are required to take a minimum of 36 credit hours in German beyond the 100 level. German 251, 252 and at least one 400-level W course are required, as well as a study abroad experience as approved by the department.

GER–101. Elementary German I Staff
Development of the four skills of listening, speaking, reading and writing. Designed for beginners or students with little or no recent study of the language. Four hours per week plus one conversation hour with the language assistant. Four semester hours.

GER–102. Elementary German II Staff
Continuation of German 101. Four hours per week plus one conversation hour with the language assistant. Four semester hours.

GER–111. Intermediate German I Staff
A review of basic grammar concepts and a development of listening and communication skills. Texts of contemporary social and cultural interest provide the focus for class discussion and writing exercises. Prerequisite: German 102 or equivalent. Four hours per week plus one conversation hour with the language assistant. Four semester hours.

GER–112. Intermediate German II Staff
A continuation of German 111. A review of selected advanced grammar concepts and further development of listening and communication skills. Longer literary texts are discussed. Prerequisite: German 111 or equivalent. Four hours plus one conversation hour per week with the language assistant. Four semester hours.

GER–201. Conversation and Composition I Staff
Intensive review of grammar to perfect oral and written communication. Literary texts, newspaper articles, and German films will be discussed. Course includes formal and informal writing exercises and student presentations. Prerequisite: German 112 or equivalent. Four hours per week plus one conversation hour with the language assistant. Four semester hours.

GER–202. Conversation and Composition II Staff
Intensive review of grammar to perfect oral and written communication. This course will focus on a selected theme or topic as reflected in contemporary German literature and film. and will include formal and informal writing exercises and student presentations. Prerequisite: German 201 or permission of instructor. Four hours per week plus one conversation hour with the language assistant. Four semester hours.

GER–208. Scientific German Dr. Clouser
Reading of classical and contemporary scientific literature. This course is open to all students. Prerequisites: Physics 111, or Biology 111, or Chemistry 111; German 111 or permission of instructor. Three hours per week. Four semester hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER-251</td>
<td>Introduction to German Literature</td>
<td>Staff</td>
<td>A survey of the works of major German writers from the Middle Ages to the 19th Century. Special emphasis will be given to the socio-cultural context in which their writing is embedded. Students will also be introduced to literary analysis and formal writing. Prerequisite: German 202 or permission of instructor. Four hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-252</td>
<td>Contemporary German Literature</td>
<td>Staff</td>
<td>The works of such 20th-century authors as Kafka, Brecht, Böll, Dürenmatt, and Seghers will be discussed in the context of the times in which they were written. Students will analyze these works and familiarize themselves with the politics, art, and film of 20th-century Germany. Prerequisite: German 202 or permission of instructor. Four hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-253</td>
<td>The German Fairy Tale</td>
<td>Dr. Clouser</td>
<td>A study of the German Fairy Tale from the Brothers Grimm through the 20th Century. Oral antecedents, the literary fairy tale, and satirical fairy tales will be treated. Prerequisite: German 251. Three hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-254</td>
<td>Germany Today</td>
<td>Dr. Thelen</td>
<td>A study of contemporary German politics, economics and society. Special emphasis will be given to social and political changes before and after Reunification. Prerequisites: German 201, 202 or permission of the instructor. Four hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-258</td>
<td>Commercial and Economic German</td>
<td>Staff</td>
<td>Study of the economy, business organization and commercial practices of Germany with special attention to Germany’s role in the European Union. Prerequisite: German 201, 202 or permission of the instructor. Four hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-259</td>
<td>Contemporary German Literature</td>
<td>Dr. Thelen</td>
<td>The 20th-century German short story. Representative short stories from Naturalism to the present with emphasis on the literature since 1945. Prerequisites: German 251, 252, or permission of the instructor. Three hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-260</td>
<td>German Novelle</td>
<td>Dr. Clouser</td>
<td>History and development of the German <em>Novelle</em> from Goethe to the 20th century. Prerequisites: German 251, 252, or permission of instructor. Three hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-264</td>
<td>Advanced German Grammar</td>
<td>Staff</td>
<td>In-depth study of German phonetics, morphology and syntax with special emphasis on the problems related to the teaching of the language. Prerequisites: German 201, 202 or permission of instructor. Four hours per week. <em>Four semester hours.</em></td>
</tr>
<tr>
<td>GER-266</td>
<td>Internship</td>
<td>Staff</td>
<td>An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in German, and approval of a faculty internship adviser. Twelve to 16 hours per week. <em>Four semester hours.</em></td>
</tr>
</tbody>
</table>
GER-401W. German Medieval Studies
Dr. Thelen

Works include Parzival, Tristan, the Nibelungenlied and Minnesang. This course satisfies the College requirement of a capstone experience. Prerequisites: German 251, 252, or permission of instructor. CST 201 [CA 100] is strongly recommended. Three hours per week. Four semester hours.

GER-402W. Classical Literature of the 18th and 19th Centuries
Dr. Clouser

Writers include Lessing, Goethe, Schiller, Kleist, Keller and Hauptmann. This course satisfies the College requirement of a capstone experience. Prerequisites: German 251, 252, or permission of the instructor. CST 201 [CA 100] is strongly recommended. Three hours per week. Four semester hours.

GER-403W. Advanced Seminar
Staff

Topics vary. This course satisfies the College requirement of a capstone experience. Prerequisites: German 251, 252, or permission of instructor. CST 201 [CA 100] is strongly recommended. Three hours per week. Four semester hours.

GER-491. Research/Independent Work
Staff

This course is open to candidates for departmental honors and to other students with the permission of the department chair. This course does not satisfy the College requirement of a capstone experience. Four semester hours.

GER-492W. Research/Independent Work
Staff

A continuation of course 491. This is a writing-intensive course and at least one formal oral presentation is required. This course satisfies the College requirement of a capstone experience. Prerequisites: German 491 and permission of the department chair. CST 201 [CA 100] is strongly recommended. Four semester hours.

JAPANESE

The Japanese language courses are designed to develop linguistic skills and an understanding of Japanese culture. The study of Japanese is recommended for students interested in majoring in East Asian Studies or International Relations. Students may also pursue a student-initiated major that includes the study of Japanese. In language labs, which are required for all classes, students work with computers, authentic video and audio materials, as well as native speakers. Ursinus is one of two institutions in Pennsylvania to offer a teacher certification program in Japanese.

JAPN-101. Elementary Japanese I
Ms. Inoue

An introduction to Japanese language. The course is designed to expose the students to the basic rules of spoken and written Japanese. Four hours per week plus one hour of language lab. Four semester hours.

JAPN-102. Elementary Japanese II
Ms. Inoue

Continuation of Japanese 101. The focus is placed on situation-sensitive language use. Different verb forms (te-form and plain form), as well as some basic Kanji are introduced. Prerequisite: Japanese 101 or equivalent. Four hours per week plus one hour language lab. Four semester hours.
MODERN LANGUAGES

JAPN-111. Advanced Elementary Japanese Ms. Inoue
A review of fundamental structures of Japanese with emphasis on conveying varying intentions and nuances. Developing communicative skills so that the students learn to be better learners of the language is one of the goals. Prerequisite: Japanese 102 or equivalent. Four hours per week plus one hour of language lab. Four semester hours.

JAPN-112. Advanced Elementary Japanese II Ms. Inoue
Continuation of Japanese 111. The main focus of the course is to develop fluency. Further study of Kanji makes reading authentic texts such as letters and plays possible. Prerequisites: Japanese 111 or equivalent. Four hours per week plus one hour of language lab. Four semester hours.

JAPN-211. Intermediate Japanese Ms. Inoue
Continuation of Japanese 112. Intensive review of structures and further development of communication skills. Intensive Kanji learning to expand vocabulary through authentic texts, such as newspapers and magazines. Prerequisite: Japanese 112 or equivalent. Four hours per week plus one hour of language lab. Four semester hours.

JAPN-212. Topics in Japanese Society, Culture and Literature Ms. Inoue
Continuation of Japanese 211. The class discussions and readings are organized around various topics selected by both the students and the instructor. Prerequisite: Japanese 211 or equivalent. Four hours per week plus one hour of language lab. Four semester hours.

JAPN-301. Independent Study in Japanese Ms. Inoue
Independent study of selected topics in Japanese. May be taken more than once. "Japanese for Teachers: Language acquisition and pedagogy" is the suggested topic for students seeking teacher certification in Japanese. Prerequisite: Japanese 212 or equivalent and permission of the instructor. Four semester hours.

JAPN-328. Advanced Japanese Language Ms. Inoue

SPANISH

SPAN-101. Elementary Spanish I Staff
Development of the four skills of listening, speaking, reading and writing. Designed for beginners or students with little or no recent study of the language. Four hours per week plus one hour of language laboratory. Four semester hours.

SPAN-102. Elementary Spanish II Staff
Continuation of Spanish 101. Four hours per week plus one hour of language laboratory. Four semester hours.

SPAN-111. Intermediate Spanish I Dr. Eaton and Staff
A review of the basic grammatical structures of Spanish, with emphasis on the use of tenses and the subjunctive mood, vocabulary development through readings and use of authentic materials, and cultural and elementary literary readings. Prerequisite: Spanish 102. Four hours per week plus one hour of language laboratory. Four semester hours.
SPAN-112. Intermediate Spanish II  
Dr. Eaton and Staff

Although Intermediate Spanish II is a continuation of Intermediate Spanish I, students may be placed in this course if they can demonstrate a good command of the basic structures of the Spanish grammar. The main focus of this course will be in the strengthening of vocabulary and the written command of the language through the use of authentic materials, literary readings, and writing of short compositions. Prerequisite: Spanish 111 or equivalent. Four hours per week plus one hour of language laboratory. Four semester hours.

SPAN-117. Spanish for Business and Economics  
Staff

Designed for students interested in the field of international business. Emphasis will be put on the development of the specialized vocabulary of business and the study of cultural differences between the U.S. and the Hispanic world that may play a role in business relations. This course may be used toward fulfillment of the language requirement. Prerequisite: Spanish 111 or equivalent. Four hours per week. Four semester hours.

SPAN-118. Spanish for the Health Professions  
Dr. Espadas

This course is designed for students interested in medicine or an allied health field. Grammar review and vocabulary development will be emphasized through readings. Oral competency in the medical vocabulary and ability to respond in emergency circumstances are an extremely important part of the course. This course may be used toward fulfillment of the language requirement. Prerequisite: Spanish 111 or equivalent. Four hours per week. Four semester hours.

SPAN-200. Summer Study in Mexico  
Staff

A four-week course including classroom study, family residence and travel in Mexico directed by members of the Ursinus faculty. Offered annually. Prerequisites: Spanish 112, 118 or permission of instructor. Four semester hours.

SPAN-201. Conversation and Composition  
Dr. de Arana, Staff

Intensive review of the grammar to perfect oral and written communication. Materials used will be predominantly literary (short plays and short stories), but also journalistic. Writing will be both formal and informal. Four hours per week plus one hour of conversation with the language assistant. Prerequisite: Spanish 112 or 118 or equivalent. Four semester hours.

SPAN-202. Topics in Hispanic Literature and Culture  
Dr. de Arana, Staff

Continuation of Spanish 201. Topics, to be determined by interests of students and faculty, might include the short story, Spanish and/or Latin American film, class, gender, race relations as reflected in the literature and/or film, and others. Prerequisite: Spanish 201 or permission of the instructor. Four hours per week. Four semester hours. Course can be taken twice but may be counted only once toward the major.

SPAN-203. Mexican Studies  
Staff

Study of contemporary Mexico, especially the European and indigenous influences which have contributed to 20th-century Mexican culture, as concrete preparation for future study abroad in Mexico. Spanish 203 includes essential information on Mexican geography, history, politics, customs, society, literature and the arts. Readings come primarily from the works of major Mexican writers. Class discussion in Spanish, guest speakers, Mexican films. Fall semester only. Prerequisite: Spanish 112 or permission of the instructor (on rare occasions may be taken concurrently with Spanish 112). This course does not satisfy the language requirement unless it is taken with SPAN-209. Two semester hours.

SPAN-204.  
(See Ursinus in Sevilla Program)

SPAN-207.  
(See Ursinus in Sevilla Program)

SPAN-209. Winter Study in Mexico  
Staff

A two-week language course, including 30 hours of classroom study, homestay with a Mexican family, afternoon excursions and weekend travel in Mexico directed by members.
of the Ursinus faculty. Offered annually during winter break. Students may register for Spanish 209 as part of the regular course load for either semester. Prerequisite: Spanish 203 or permission of the instructor. This course may be used to fulfill the language requirement only if taken twice or in conjunction with SPAN–203. May be taken for credit twice. Two semester hours.

SPAN–251. Survey of Spanish Literature
Dr. Eaton
Study of major literary works and genres of Spain from the Middle Ages through the 20th century with special attention given to the literature of the Golden Age, the Generation of 1898, and the post-Civil War period. Prerequisite: Spanish 202 or equivalent. Four hours per week. Four semester hours.

Dr. Eaton
Study of major trends in Latin American literature from the Colonial period through the 20th century with emphasis on Latin America's progress toward artistic and literary independence from European models. Prerequisite: Spanish 202 or equivalent. Four hours per week. Four semester hours.

300- and 400-level courses are offered in rotation.

SPAN–317. The Hispanic World
Dr. Eaton
The development of the Hispanic Culture as a conjunction of Eastern and Western experiences and its subsequent expansion and transformation in the Americas. The creation of the American republics, the political and socio-economic crisis of the 20th century and the challenges of the future. Prerequisite: Two of the following: Spanish 201, 202, 251, 252 or permission of the instructor. Four hours per week. Four semester hours.

SPAN–328. Advanced Spanish Grammar
Dr. Espadas
In-depth study of Spanish phonetics, morphology and syntax with special emphasis on the problems related to the teaching of the language. Prerequisite: Spanish 201 or equivalent. Four hours per week. Four semester hours.

SPAN–332. Latin American Studies
Dr. Cameron
(See also under Interdivisional Studies) An interdivisional approach to the study of Latin America. The development of the history, politics, society and literature of Latin American nations will be examined. Readings will be selected from the works of major intellectual figures and writers. Emphasis will be on the 20th century. Weekly lectures, films, and class discussions. The language of instruction is English. Open to upperclass students. Four hours per week. Four semester hours.

SPAN–335. Independent Study in Spanish
Staff
Individual study of topics in Spanish or Latin American literature or culture. Prerequisites: two 200-level courses and permission of the instructor. Two to four semester hours.

SPAN–350. Translation
Dr. Espadas
The theory and practice of translation. The course will cover different types of translation: literary, technical, advertising, from English to Spanish and vice versa. It will have a class project consisting of the translation of a short novel, a play, a collection of short stories or the subtitling of a film. Prerequisites: Spanish 328, or permission of the instructor. Three hours per week. Four semester hours.

SPAN–351. Contemporary Hispanic Theater: History, Text and Performance
Dr. Espadas
Study of Spanish and Spanish-American theater from the end of World War II to the present. The course will address the development of the genre, the structure of individual works, as well as the stage techniques. It will also include the production and performance of a short play. This course satisfies the fine-arts requirement. Prerequisite: Spanish 251, 252 or permission of
the instructor. Three hours per week. *Four semester hours.*

**SPAN-352. Contemporary Hispanic Novel**  
*Dr. Cameron*

Close readings from a variety of perspectives (including gender, race, class) of texts representing major trends in contemporary fiction (Spain and Latin America). Prerequisite: Spanish 251, 252, or permission of the instructor. Four hours per week. *Four semester hours.*

**SPAN-381. Internship**  
*Staff*

An off-campus academic work/experience under the supervision of an internship adviser and an on-site supervisor. Contact the chair of the department for further details. Prerequisites: Junior standing, three courses in Spanish, and approval of a faculty internship adviser. Twelve to 16 hours per week. *Four semester hours.*

**SPAN-401W. Golden Age Literature**  
*Dr. Cameron*

The picaresque, and the Comedia of the 16th and 17th centuries. Prerequisite: English 100, Spanish 251, 252, or permission of the instructor. *Four semester hours.*

**SPAN-402W. Cervantes**  
*Dr. Cameron*

Studies in the structure, sources and the impact of Cervantive prose, with emphasis on the Quijote. This course satisfies the College requirement of a capstone experience. Prerequisites: English 100, Spanish 251, 252 or permission of the instructor. *Four semester hours.*

**SPAN-440W. Senior Seminar in Hispanic Studies**  
*Staff*

This course satisfies the College requirement for a capstone experience. It will explore topics in linguistic, literary, and cultural studies in the Hispanic world. Prerequisites: English 100, Spanish 251, 252 and senior status or permission of the instructor. CST 201 [CA 100] is highly recommended. Three hours per week. *Four semester hours.*

**SPAN-491. Research/Independent Work**  
*Staff*

This course is open to candidates for departmental honors and to other students with the permission of the department chair. This course does not satisfy the College requirement of a capstone experience. *Four semester hours.*

**SPAN-492W. Research/Independent Work**  
*Staff*

A continuation of course 491. This is a writing-intensive course and at least one formal oral presentation is required. This course satisfies the College requirement of a capstone experience. Prerequisites: Spanish 491 and permission of the department chair. CST 201 [CA 100] is highly recommended. *Four semester hours.*

**URSINUS IN SEVILLA**

A program for students interested in continuing the study of Spanish beyond the language requirement. Offered during the Fall semester at the Instituto Universitario de Sevilla (I.U.S., Sevilla, SPAIN). Students will obtain 12 credits in Spanish at the 200 level, plus 4 more credits in the Liberal Studies (Core) Curriculum. The semester will be preceded by a 10-day orientation/travel program in Spain.

Sophomores are particularly encouraged to participate, but juniors are also welcomed. Completion of at least Spanish 102 or its equivalent is required. Not open to first year students or seniors. A member of the Ursinus faculty will accompany the group from/to the United States, and
MUSIC

will teach the World Literature and the Spanish Civilization courses. The language course will be taught by a member of the faculty of I.U.S.

While in Sevilla, the students will be housed with families carefully chosen by I.U.S. They will have their meals with those families also.

The college reserves the right to cancel this program in any given year if a reasonable number of students do not enroll.

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Staff</th>
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<tbody>
<tr>
<td>IDS–101</td>
<td>World Literature I: The Literary Tradition</td>
<td>[This section of IDS 101 will have a special emphasis on Spanish literature.]</td>
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<tr>
<td>SPAN–204</td>
<td>Intensive Spanish</td>
<td>Staff</td>
</tr>
<tr>
<td>SPAN–207</td>
<td>Introduction to Spanish Civilization</td>
<td>An introduction to Spanish history, culture and civilization from its beginnings to the present time. The course will make extensive use of the opportunities of Sevilla’s metropolitan area: stone age archeological sites, Roman ruins, medieval Spain’s Christian, Jewish and Moorish sites, museums, etc. Four hours per week. <em>Four semester hours.</em></td>
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MUSIC

*Professor French (Chair); Visiting Assistant Professor David.*

Requirements for Minor in Music History and Theory

A minor concentration in music history and theory consists of Music 100, 121 and four courses in music from the 200 level or above. At least one course at the 200 level in music history and one course at the 200 level in theory is required for the minor.

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<tr>
<th>Course Code</th>
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<tr>
<td>MUS–100</td>
<td>Introduction to Music</td>
<td>Dr. French</td>
</tr>
<tr>
<td>MUS–104</td>
<td>Evolution of Jazz Styles</td>
<td>Staff</td>
</tr>
<tr>
<td>MUS–121</td>
<td>Fundamentals of Music</td>
<td>Staff</td>
</tr>
</tbody>
</table>

A course in perceptive listening intended to heighten the student’s awareness and understanding of music through an examination of its basic elements — tone color, texture, melody, rhythm and style. The course involves intensive required listening assignments as a means of achieving the awareness and understanding of these elements. Three hours per week. *Four semester hours.*

An introductory course in music theory which presents essential basic concepts, from standard notation and scales to harmonization and motivic structure. Additional emphasis on the acquisition of aural skills through ear-training exercises. Three hours per week. *Four semester hours.*
MUS-201. Music of the Middle Ages, Renaissance and Early Baroque  
Dr. French
A study of music from its early origins through 1650. Intensive listening assignments and research projects required in the course. Prerequisite: Music 100 or by permission. Three hours per week. Four semester hours.

MUS-202. Music of the Middle-Late Baroque and Classical Periods  
Dr. French
A study of music from 1650 through 1825. Intensive listening assignments and research projects required in the course. Prerequisite: Music 100 or by permission. Three hours per week. Four semester hours.

MUS-203. Music of the Romantic Era  
Dr. French
A study of music from 1825 through 1910. Intensive listening assignments and research projects required in the course. Prerequisite: Music 100 or by permission. Three hours per week. Four semester hours.

MUS-204. Music of the 20th Century  
Dr. French
A study of music from 1910 to the present. Intensive listening assignments and research projects required in the course. Prerequisite: Music 100 or by permission. Three hours per week. Four semester hours.

MUS-222. Harmony  
Staff
A study of the materials and practices of tonal harmony through the examination of the techniques of four-part writing. Additional emphasis on the acquisition of aural skills through ear-training exercises. Prerequisite: Music 121 or by permission. Three hours per week. Four semester hours.

MUS-225. Jazz Theory  
Staff
An exploration of the medolic, harmonic, and rhythmic principles of jazz. The course includes analysis of representative works by various jazz masters and will place a strong emphasis on student projects in composition and performance. Prerequisite: Music 121 or by permission. Three hours per week. Four semester hours.

MUS-307. Topics in Music History  
Dr. French
A study of a specific period of genre of music such as the Second Viennese School, Late Beethoven, American Opera, and others. The course will place emphasis on independent research as well as required listening. Prerequisite: Appropriate 200-level music history course or by permission. Three hours per week. Four semester hours.

MUS-328. Topics in Music Theory  
Staff
A study of a specific style or school of composition such as counterpoint, serial music, chromatic harmony and others. The course will place emphasis on independent research as well as required listening. Prerequisite: Appropriate 200-level music theory course or by permission. Three hours per week. Four semester hours.

MUS-401. Special Projects in Music  
Staff
Advanced independent work on a creative, historical or theoretical project supervised and approved by a faculty adviser. Four semester hours.

ENSEMBLES

NOTE: A student may receive a maximum of four credits for participating in ensembles.

MUS-001-008. Ursinus College Choir  
Dr. French
A large choral ensemble open to everyone in the College community. The College Choir performs three or four major works each year, including performances of Handel’s Messiah in the fall semester. Two hours per week. One-half semester hour.

MUS-011-018. Meistersingers  
Dr. French
A small choral ensemble (approximately 35 voices) open by audition to students in the College Choir. Most of the ensemble’s performances, including a tour, take place in the spring semester. Two to three hours per week. One-half semester hour.
MUSIC/PENNSYLVANIA GERMAN STUDIES

MUS–021-028. Ursinus College Concert Band Staff
A large instrumental ensemble open to everyone in the College community. Members perform a variety of literature representing different stylistic periods. The Concert Band presents two major concerts each year and may appear at other campus functions. Two hours per week. One-half semester hour.

MUS–031-038. Ursinus College Jazz Ensemble Staff
A big band that performs arrangements of classic works of the jazz idiom. The ensemble is open to all members of the College community and presents several concerts during the year. Two hours per week. One-half semester hour.

PENNSYLVANIA GERMAN STUDIES

Professor Gallagher (Coordinator).

The purpose of Pennsylvania German Studies (PGS) is to examine the origins and values of the Pennsylvania Germans (or Pennsylvania Dutch), their history, customs, arts and folklore. The program aims to increase awareness of cultural aspects of the Pennsylvania Germans; to compare their folk culture with that of other peoples. The Pennsylvania German archives in Myrin Library and the art and artifacts in the Berman Museum of Art offer special opportunities for study and enrichment.

Minor Concentration

A minor in Pennsylvania German Studies consists of Pennsylvania German Studies 100 and 13 additional credits in PGS.

PGS–100. Pennsylvania German Culture Staff
A study of the history, culture and societies of the Pennsylvania Germans, their influence on early American life and their adjustments to the modern world. Three hours per week. Three semester hours.

PGS–203. Pennsylvania German Folklife Staff
Classroom study and field techniques related to the folklore, folklife, and folk culture of the Pennsylvania Dutch country. Prerequisites: PGS 100, or Anthropology 100, or History 213. Three hours per week. Three semester hours.

PGS–204. Topics in Pennsylvania German Studies Staff
A course focusing on special topics in Pennsylvania German studies. Prerequisite: Permission of instructor. Three hours per week. Three semester hours.

PGS–306. Pennsylvania German Art Staff
Pattern, symbolism and content in Pennsylvania German folk art. Formal painters of Pennsylvania German origin. Three hours per week. Three semester hours.

PGS–310. Religious Experiences of the Pennsylvania Germans Staff
This course will examine the varieties of religious sects, denominations and institutions of the Pennsylvania Germans, their attitudes toward religion, as well as the transition to 20th-century religious forms. Prerequisite: Permission of instructor. Three hours per week. Three semester hours.

PGS–351. Independent Study Staff
Research involves directed readings and research on a topic in Pennsylvania German Studies. Prerequisites: PGS 100 and permission of the instructor. Three semester hours.
PHILOSOPHY AND RELIGION

Professor Hardman; Associate Professors Goetz (Chair), Stern.

The purpose of the department of philosophy and religion is to develop the student’s ability to think clearly and critically and to understand the major philosophical and religious positions of both the past and the present. As means to accomplishing these goals, the department offers a major in philosophy and a major in philosophy and religion, as well as a minor in philosophy and a minor in religion.

PHILOSOPHY

For the student who is interested in a major in philosophy, the department offers the opportunity to think about the best way in which to live one’s life and the nature of things. In pursuing this opportunity, the student of philosophy necessarily considers the most basic questions that an individual can ask: ‘Why do I exist?’, ‘What am I?’, ‘What is a good life?’, and ‘How do I live with others?’ By majoring in philosophy, a student will become proficient in thinking, speaking, and writing about these questions in an informed and coherent manner.

Requirements for Philosophy Majors
A major in philosophy requires Philosophy 202, 204, 237; five of the following: 302, 303, 305, 337, 338, 339, 343; and one of the following: 404W, 437W.

Requirements for Philosophy Minors
A minor concentration in philosophy consists of 202, 204, 237 and three of the following: 302, 303, 305, 337, 338, and 339.

PHILOSOPHY AND RELIGION

For the student who is interested in a major in philosophy and religion, the department provides the opportunity to develop informed awareness and critical appraisal of philosophical perspectives, as well as providing opportunity for a scholarly and appreciative study of historic and contemporary religious insights. In this manner, the department strives to translate into the terms of today’s academic interests the traditional roles both disciplines have played in liberal education.

Requirements for Philosophy and Religion Majors
Majors must take 36 hours of work within the department, including 101, 102, 201, 202, 211, 404W, which are required. Each major is also encouraged to earn a minor in another field of study.
PHILOSOPHY AND RELIGION

Requirements for Religion Minors
A minor concentration in religion consists of 101, 102, 201, 211, and two of the following: 212, 215, 216, 221, and 223.

PHIL–101. Knowledge, Value and Reality
Dr. Hardman, Dr. Goetz, Dr. Stern
An introductory study of ideas about knowledge, morality, and what is real in their historical context. Attention will be given to texts from both Western and non-Western cultures. Short analytical papers will be required in which students develop their own thoughts on an issue. Philosophy 101 and 102 need not be taken in sequence. Three hours per week. Four semester hours.

PHIL–102. Minds, Science, and Religion
Dr. Hardman, Dr. Goetz, Dr. Stern
An introductory study of ideas about religion, consciousness, and science in their historical context. Attention will be given to texts from both Western and non-Western cultures. Short analytical papers will be required in which students develop their own thoughts on an issue. Philosophy 101 is not a prerequisite. Three hours per week. Four semester hours.

PHIL–103. General Problems of Philosophy
Staff
A study designed to orient the student with reference to perennial problems of philosophical inquiry. Intensive use is made of primary sources. Three hours per week. Four semester hours.

PHIL–104. Contemporary Philosophy
Staff
A study of late 19th-century and 20th-century philosophers and trends in philosophic thought beginning with Nietzsche and Moore. Intensive use is made of primary sources. Three hours per week. Four semester hours.

PHIL–105. Great Thinkers
Dr. Hardman, Dr. Goetz
Intensive study of important theologians and philosophers, such as Plato, Aristotle, Augustine, Kant, and others, utilizing in each case original source materials. Three hours per week. Four semester hours.

PHIL–115. Business Ethics
Dr. Hardman, Dr. Goetz
The nature of ethical principles as applied to the business world. Using the case study approach, an analysis of problems such as pollution, whistle blowing, and employee rights. Three hours per week. Four semester hours.

PHIL–201. Introduction to Religion
Dr. Hardman
A survey of numerous issues important in the study of religion, such as the psychology of religion, myth, politics and religion in American culture, and others. Three hours per week. Four semester hours.

PHIL–202. Logic
Dr. Goetz
A study of formal logic in which the student is taught how to translate sentences in ordinary English into the formal language of propositional and predicate logic. Emphasis is placed on recognizing logical connectives and quantifiers in ordinary language and becoming proficient in the natural deduction proof technique. Four hours per week. Four semester hours.

PHIL–204. Ethics
Dr. Goetz
A study of various ethical theorists with regard to their attempts to give an account of such concepts as the human good, virtues, the role of motive and consequences in determining right and wrong conduct, and the like. Readings on practical issues (e.g., punishment and abortion) are included in an effort to explore how the various theories relate to practice. Three hours per week. Four semester hours.

PHIL–211. World Religions
Dr. Hardman
An introduction to major living religions, with special attention to Oriental religions. An examination of the leading problems of religious thought, and to the alternative approaches of world religions to ultimate questions concerning the meaning of human life. Three hours per week. Four semester hours.
PHIL-212. Hebrew History and Scriptures
Dr. Hardman
Foundations of the Judeo-Christian tradition in the literature and thought of the Old Testament. Attention is given to the archeological and historical background of the Old Testament, as well as to the biblical materials themselves. Three hours per week. Four semester hours.

PHIL-214. Introduction to Judaism
Staff
Attention is given to the history, traditions, and literature of the Jewish people from their origins in the second millennium B.C.E. to the present day. Stress is given to specific religious concepts and teachings which are pertinent to modern times. Three hours per week. Three semester hours.

Dr. Hardman
By means of various methods of study, the life and teachings of Jesus as set forth in the four Gospels are examined. Attention is given to the geography, politics, sociology, and religion of the first century A.D. Three hours per week. Four semester hours.

Dr. Hardman
Attention is given to the life, ministry, and writings of Paul. The doctrinal, pastoral, and personal epistles of Paul are studied with reference to their historical settings, the organization of the Apostolic church, and the development of Christian doctrine. Three hours per week. Four semester hours.

PHIL-221. Religion in American Culture
Dr. Hardman
A systematic examination of religion in the United States as a philosophy of life, attitude, tradition, and organization. The beliefs and thoughts of Protestants, Catholics, and Jews from the colonial period to modern times are studied. Three hours per week. Four semester hours.

PHIL-223. The Christian Religious Tradition
Dr. Hardman
A survey of important thinkers, literature and movements typical of the Christian tradition through the 20th century. Careful study of Augustine, Abelard, Aquinas, Duns Scotus, Occam, Luther, Edwards and others is included. Three hours per week. Four semester hours.

PHIL-224. Literature and Religious Ideas
Dr. Hardman
An analysis of the significant themes common to works of imaginative literature exploring the interrelation of religion and artistic creativity. Attention will be given to Camus, Eliot, Faulkner, Kazantzakis, Waugh, and others. Three hours per week. Four semester hours.

PHIL-237. Political Philosophy
Same as Politics 237.

PHIL-302. Philosophy of Religion
Dr. Goetz
A philosophical study of both belief itself as a psychological attitude and what has been believed about God. Particular attention is given to such questions as whether or not belief is a matter of choice and whether or not one must have a reason to believe in God. Questions about the natures of God and man, evil and immortality are also addressed. Three hours per week. Four semester hours.

PHIL-303. Philosophy of Mind
Dr. Goetz
An examination of various arguments for and against different views of what a person or self is. Attention is given both to the claim that a person is a soul or mind which is distinct from its physical body and to the conflicting assertion that a self is identical with its body or brain. Three hours per week. Four semester hours.

PHIL-305. Philosophy of Action
Dr. Goetz
An examination of what human action is, how it is explained, and whether it is free or determined. The examination raises such issues as how explanations in science are related to explanations of human behavior in terms of reasons, whether there is a science of human behavior, and for what, if any, behavior human beings are responsible. Three hours per week. Four semester hours.

PHIL-309. Selected Topics
Dr. Hardman, Dr. Goetz
Content for the course will be drawn from either philosophy or religion, concentrating on special issues, movements and leaders in both areas. Three hours per week. Four semester hours.
PHILOSOPHY AND RELIGION/PHYSICS AND ASTRONOMY

PHIL–314. Seminar in Biomedical Ethics

An examination of ethical decision-making procedures available to health care professionals who face dilemmas caused by acute medical problems and the technological advances in the delivery of health care. Opportunity is given to apply decision-making processes to the major issues in biomedical ethics. Students present papers exploring a dilemma, its empirical and evaluative elements, and proposing an ethical resolution. Prerequisite: Permission of the department. Limited to 20 students. Three hours per week. Four semester hours.

PHIL–337. Classical Political Philosophy

Same as Politics 337.

PHIL–338. Modern Political Philosophy

Same as Politics 338.

PHIL–339. Contemporary Political Philosophy

Same as Politics 339.

PHIL–343. The History of Chinese Thought and Religion

Same as History 343.

PHIL–404W. Senior Seminar: Current Issues and Movements in Philosophy and Religion

The aim of this capstone course is threefold: 1) A comprehensive grasp of the interrelatedness of the various courses in the major field; 2) an overview of the relation of the major field of study to the liberal arts program; 3) a study of the relevance of philosophy and religion to the contemporary situation. There will be several papers and oral presentations. Prerequisite: English 100. Open only to philosophy and religion majors or by departmental permission. Three hours per week. Four semester hours.

PHIL–437W. Seminar in Political Philosophy

Same as Politics 437W.

PHIL–491W. Research/Independent Work

This course is open to candidates for departmental honors and to other students with the permission of the departmental chair. Four semester hours.

PHIL–492W. Research/Independent Work

A continuation of Philosophy 491. Prerequisite: Philosophy 491. Four semester hours.

PHYSICS AND ASTRONOMY

Professor Takats (Chair); Associate Professor Nagy; Assistant Professor Bashus, Mr. Martin.

The courses in physics are designed to give the student an understanding of the logic and structure of physics. Methods of analysis and presentation of concepts and ideas are emphasized. Laboratory work demonstrates the dependence of physical theory on experimentation.

Requirements for Majors

I. Physics Track

Students must take the following courses: Chemistry 105, 105a, 206, 206aQ; Mathematics 111, 112, 211; Physics 111Q, 112, 121, 122, 207, 209, 210, 210a, 212, 308W, 315, either 450 or 492W, and at least two of the following: 301, 302, 304, 309, 316, 401, 408, 410.
II. Astrophysics Track
Students must take the following courses: Chemistry 105, 105a, 206, 206aQ; Mathematics 111, 112, 211; Physics 111Q, 112, 121, 122, 207, 209, 210, 210a, 212, 301, 302, 315, 358W, and either 450 or 492W.

Students anticipating graduate study in physics or astrophysics should select additional courses from Physics 304, 309, 316, 401, 408, 410, and from Mathematics 214, 235, 462.

Requirements for Secondary School Teaching Certification
Students must take Biology 100 or 111; Chemistry 105, 105a, 206, 206aQ; Mathematics 111, 112, 211; Physics 111Q, 112, 121, 122, 101Q or 201, 207, 209, 210, 210a, 212, 308W, either 450 or 492W.

Requirements for Minors
A minor concentration in physics consists of Mathematics 111, 112; Physics 111Q, 112, 121, 122, 207, and a minimum of seven credits selected from 209, 210, 210a, 212, 304, 308W, 309, 315, 316, 401, 408, 410, including at least one of the following: 209, 210a, 308W.

A minor concentration in astronomy consists of Physics 101Q, 111Q, 112, 201, 301, 302, and a minimum of three credits of seminar from the following topics: solar system astronomy, celestial mechanics, galactic astronomy, astrometry.

Students in the pre-engineering program take Chemistry 105, 105a, 206, 206aQ; Mathematics 111, 112, 211, 214, 271; Physics 111Q, 112, 121, 122, 207, 209, 212. Additional courses in chemistry, mathematics, and physics are chosen in consultation with the pre-engineering adviser. The courses are determined by the particular field of engineering the student plans to enter.

PHYS-100Q. Introduction to Physics  Staff
A survey of classical physics with emphasis on its structure and intellectual development as well as its application to problems of society. Concepts of motion, energy, sound, light, electricity, and magnetism. This course assumes no previous study in physics. A working knowledge of high school algebra is assumed. Two hours lecture and two hours laboratory per week. Three semester hours.

PHYS-101Q. Introduction to Astronomy  Dr. Nagy
An introduction to the methods and concepts of modern astronomy: physical principles, telescopic observations of the moon, sun, stars, and planets, measuring the physical properties of stars, star formation. Prerequisite: a working knowledge of high school algebra. Two hours of lecture and two hours of laboratory per week. Three semester hours.

PHYS-111Q. General Physics I  Staff
A study of mechanics and waves, utilizing mathematics in the presentation and in exercises. Prerequisite: Mathematics 110 or equivalent. Two hours of class meetings and two, two-hour workshops per week. Four semester hours.

PHYS-112. General Physics II  Staff
A study of thermodynamics, electricity, magnetism, and light, utilizing mathematics in the presentation and in exercises. Prerequisite:
PHYSICS AND ASTRONOMY

Physics 111Q. Two hours of class meetings and two, two-hour workshops per week. Four semester hours.

PHYS-121. Problem-Solving Techniques I

Problem solving in physics using mathematics (precalculus and differential calculus) and computer systems (spreadsheets, graphing programs, and symbolic computation systems). Pre- or corequisites: Physics 111Q, Mathematics 111. One hour per week. One semester hour.

PHYS-122. Problem-Solving Techniques II

Problem solving in physics using mathematics (differential and integral calculus) and computer systems. Prerequisite: Physics 121; pre- or corequisites: Physics 112, Mathematics 112. One hour per week. One semester hour.

*PHYS-201. Topics in Modern Astronomy

Stellar evolution, solar system astronomy, galaxies, the creation and evolution of the universe, the search for extraterrestrial intelligence. Prerequisite: Physics 100Q or 101Q. Two hours of lecture and two hours of laboratory per week. Three semester hours.

Students having credit for Physics 301 may not receive credit for Physics 101Q or 201.

PHYS-207. Modern Physics

Special relativity, origins of quantum theory, physics of atoms, molecules, solids, nuclei, and elementary particles. Class work will include experiments which demonstrate the physical principles. Prerequisite: Physics 112. Four hours per week. Four semester hours.

PHYS-209. Circuits

Foundations of analog and digital circuits. D-C and A-C circuits, transistors, operational amplifiers, digital electronics. Prerequisite: Physics 110 or 112. Three hours lecture and three hours laboratory per week. Four semester hours.

PHYS-210. Mechanics I

Vectors, statics, vector calculus, kinematics of a particle, dynamics of a particle, energy, harmonic motion, moving reference systems, central forces. Prerequisites: Physics 112, 121; pre- or corequisites: Physics 122, Mathematics 112. Three hours per week. Three semester hours.

PHYS-210a. Laboratory in Mechanics I

Laboratory work (optional) for Physics 210. Three hours per week. One semester hour.

PHYS-212. Classical and Quantum Mechanical Waves

The behavior of classical waves, wave-particle duality, state functions and probability densities, the Schroedinger wave equation, one-dimensional quantum mechanical problems, prediction and measurement in quantum mechanics. Class work will include experiments which demonstrate the physical principles. Prerequisites: Physics 112, 121; pre- or corequisites: Physics 122, Mathematics 112. Four hours per week. Four semester hours.

PHYS-301. Observational Astronomy

An introduction to the instruments and techniques of observational astronomy: astrometry, astronomical photometry, CCD imaging and image processing, spectroscopy. Prerequisites: Physics 112, 121, Mathematics 111. Three hours per week. Three semester hours.

PHYS-302. Introduction to Astrophysics

Astronomical coordinate systems and time, the astronomical two-body problem, tidal forces, the Sun and planets, observable properties of stars, stellar structure and evolution, binary stars, galaxies and cosmology. Prerequisites: Physics 112, 121; pre- or corequisites: Physics 122, Mathematics 112. Three hours per week. Three semester hours.

*PHYS-304. Thermodynamics

Primarily classical thermodynamics with a brief introduction to statistical aspects. Temperature, laws of thermodynamics, work, heat, energy, entropy, thermodynamic potentials, kinetic theory of dilute gases, equations of state. (Alternates with 410.) Prerequisites: Physics 112, 122, Mathematics 211. Three hours per week. Three semester hours.

*This course will not be offered in 1997-1998.
PHYS–308W. Modern Physics Laboratory  

Staff
Experimental investigations of the principles of modern physics, with emphasis on laboratory techniques and the written communication of scientific results. Prerequisites: Physics 207, 212, English 100. Six hours of laboratory per week. Three semester hours.

PHYS–309. Electric and Magnetic Fields  

Dr. Takats
Electric and magnetic fields and potentials, Laplace’s equation, dielectrics and magnetic materials, Maxwell’s equations, electromagnetic waves. Prerequisites: Physics 112, 122, Mathematics 211. (Alternates with 401.) Three hours per week. Three semester hours.

PHYS–315. Mathematical Physics I  

Dr. Nagy
Ordinary differential equations, special functions of mathematical physics, linear algebra, coordinate transformations, vector analysis, Fourier series, numerical solution of algebraic equations. Prerequisites: Physics 112, 122, Mathematics 211. Four hours per week. Four semester hours.

PHYS–316. Mathematical Physics II  

Dr. Nagy
Complex analysis, partial differential equations, numerical integration and differentiation, numerical solution of ordinary differential equations, Fourier and Laplace transforms. Prerequisite: Physics 315. Four hours per week. Four semester hours.

PHYS–317. Seminar  

Staff
Study and discussion of advanced topics or recent developments in physics. Students must consult the chair of the department before registering for this course. Three hours per week. Three semester hours.

PHYS–318. Seminar  

Staff
Same description as Physics 317. Three hours per week. Three semester hours.

PHYS–358W. Seminar in Astrophysics  

Staff
Study and discussion of advanced topics or recent developments in astrophysics, with emphasis on the written communication of scientific results. Prerequisite: Physics 302. Three hours per week. Three semester hours.

PHYS–401. Applications of Quantum Mechanics  

Staff
The hydrogen atom, angular momentum, systems of identical particles, perturbation theory, and other applications selected from atomic, molecular, solid-state, and nuclear physics. Prerequisite: Physics 212. (Alternates with 309.) Three hours per week. Three semester hours.

PHYS–408. Materials Science  

Staff
Application of physical, chemical and thermodynamic principles to the understanding of materials. Materials considered include metals, polymers, ceramics, composites and semiconductors (the same course as Chemistry 408). Offered spring semester of even-numbered years. Prere- or corequisites: Either Chemistry 112 and Physics 212 or Chemistry 310. Three hours per week. Three semester hours.

PHYS–410. Mechanics II  

Dr. Bashus
Dynamics of a system of particles, mechanics of rigid bodies, general motion of a rigid body, Lagrange’s equations, Hamilton’s equations, theory of vibrations. Prerequisites: Physics 210, Mathematics 211. (Alternates with 304.) Three hours per week. Three semester hours.

PHYS–411. Research  

Staff
Investigations, of experimental or theoretical nature, pursued independently by the student. The preparation of a summarizing report is required. To register for this course, a student must have the consent of a member of the physics staff to serve as the adviser. One semester hour.

PHYS–412. Research  

Staff
Continuation of Physics 411. One semester hour.

PHYS–421. Research  

Staff
Same as Physics 411, but more extensive in scope. Two semester hours.

PHYS–422. Research  

Staff
Continuation of Physics 421. Two semester hours.

*This course will not be offered in 1997-1998.
PHYS-450. Senior Seminar
Investigation and discussions of recent developments in physics, with emphasis on oral communication of scientific results. Open to physics majors in their senior year or in their junior year with permission of the departmental chairperson. One hour per week. *One semester hour.*

PHYS-491. Research/Independent Work
This course is open to candidates for departmental honors and to other students with the permission of the departmental chairman. *Three semester hours.*

PHYS-492W. Research/Independent Work
A continuation of Physics 491. Writing a major paper and giving an oral presentation are required. Prerequisites: English 100, Physics 491. *Four semester hours.*

POLITICS AND INTERNATIONAL RELATIONS
*Professor Berry; Associate Professors Fitzpatrick, Hood (Chair), Kane, Stern.*

The general objectives of the department of politics and international relations are:
1) To help students attain knowledge of the theory and practice of politics.
2) To help students develop the faculties of expression and critical thinking.
3) To challenge students to evaluate their conceptions of the good life for the individual and for society.
4) To prepare students for lives of enlightened and responsible citizenship.

The professional objectives are:
1) To prepare students for graduate work in politics, law, and public service.
2) To prepare students for examinations required for governmental service.
3) To prepare students to be political leaders.

**Requirements for Politics Majors**
*A major in politics requires Politics 100, 218, 237, 242, 252, one seminar at the 400 level, plus four additional courses.*

**Secondary School Teaching Certificate**
*In addition to the basic requirements of the major, students seeking a teaching certificate in social studies must be enrolled in the College’s teacher education program. Substantial further coursework outside of either major is required in order to prepare the student for actual subject matters taught in the secondary curriculum. Students who wish teaching*
certification should consult their departmental adviser and the chair of the department of education as early as possible, preferably at the end of the freshman year. Students and their advisers should also consult the education department booklet, Ursinus College Teacher Education Programs.

Requirements for Politics Minors
A minor in politics consists of Politics 100; two courses from among Politics 218, 237, 242, 252; and two courses at the 300 or 400 level.

POL–100. Politics and Government
Dr. Berry, Dr. Fitzpatrick, Dr. Hood, Dr. Stern
Great works in political behavior, comparative institutions, methodology, international politics, and political theory create the framework for explaining politics and conducting basic research. Three hours per week. Four semester hours.

POL–199. Special Topics in Politics
Staff
An occasional course that examines particular political issues and events. Three hours per week. Four semester hours.

POL–218. American Government
Dr. Fitzpatrick
A critical examination of the institutions, processes, policies, and underlying principles of the American political system. Topics include the Constitution, interest groups, parties and elections, the presidency, Congress, the bureaucracy, and the judiciary. Prerequisite: Politics 100. Three hours per week. Four semester hours.

POL–237. Political Philosophy
Dr. Stern
This course examines the nature of justice through a careful reading of major works in the history of political philosophy. Specifically, we will consider selected political writings of Plato, Aristotle, Machiavelli, Hobbes, Locke, and Marx. Prerequisite: Politics 100. Three hours per week. Four semester hours.

POL–242. Comparative Politics
Dr. Hood
The structure and function of governments and political groups will be compared to develop basic theory. Representative Western, Third World, and Communist systems will be studied. Prerequisite: Politics 100. Three hours per week. Four semester hours.

POL–252. International Politics
Dr. Berry
General theory, simulations, games, and case studies explain the relations between states and the roles of politics, individuals, and international law and organizations in the making and resolving of conflict. Prerequisite: Politics 100. Three hours per week. Four semester hours.

POL–299. Tutorial in Politics and International Relations
Staff
Individual study and directed reading of a particular topic or book within the discipline. Students will work closely with a member of the department in selecting, reading, and discussing the topic, and in determining a proper written assignment. Prerequisites: Politics 100 and prior permission of the instructor. One hour per week. One semester hour.

POL–310. Congress and the Presidency
Dr. Fitzpatrick
The decision-making process in Congress and the executive branch with emphasis on the interaction of the branches in their struggle to make and apply policy. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL–321. Constitutional Interpretation I
Dr. Fitzpatrick
The role of the Supreme Court in the interpretation and enforcement of the Constitution is examined through analysis of leading cases. Judicial review, powers of Congress and the President, and the division of powers between the national and state governments are among the topics considered. Prerequisite: Politics 218. Three hours per week. Four semester hours.
POLITICS AND INTERNATIONAL RELATIONS

POL-322. Constitutional Interpretation II
Dr. Fitzpatrick
The role of the Supreme Court in the interpretation and enforcement of individual rights within a system of limited government. Substantive and procedural due process, freedom of expression and conscience, and equal protection of the law are among the topics considered. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL-323. American Local Government
Staff
The structure, policies, and problems of local government institutions in the American Federal system. Intergovernmental relations, citizen participation, policy development, leadership, and service performance are all considered. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL-324. Political Parties and Elections
Dr. Fitzpatrick
An examination of the evolution of the American two-party system and the increasingly volatile nature of the American electorate. Topics include the dynamics of party realignment, the changing characteristics of the American voter, the politics of presidential selection, and the consequences of party and electoral reform. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL-325. The Judicial Process
Dr. Fitzpatrick
Proceeding from the idea that the judicial process is essentially a political process, this course will examine the ways in which participants in the judicial process—particularly judges—reach decisions, engage in politics, and affect public policy. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL-328. Law and Society
Dr. Kane
A study of the origins, objectives, and manifestations of law in the United States political system. The case method of analysis is used to identify the salient features of the major classes of law and to evaluate the judicial procedures and institutions by which law is applied in the United States. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL-329. Public Administration
Dr. Kane
A survey of the field of public administration, emphasizing administrative organization, fiscal management and personnel management. The administrative process is considered as a unit encompassing Federal, state and local administration. Prerequisite: Politics 218. Three hours per week. Four semester hours.

POL-330. American Political Thought
Dr. Stern
This course examines the founding principles of our regime and the problems inherent in those principles as revealed by the great crises of our history. Accordingly, we will examine carefully the speeches and writings of those statesmen who founded the regime as well as those who guided it through its crises. Readings will include the works of Jefferson, Madison, Hamilton, the Anti-Federalists, Lincoln, Frederick Douglass, Wilson, and F.D.R. Prerequisite: Politics 237. Three hours per week. Four semester hours.

POL-337. Classical Political Philosophy
Dr. Stern
This course examines the classical understanding of politics through a careful reading of selected works of Plato and Aristotle. We will consider such issues as the nature of justice, the meaning of moral and intellectual virtue, and the relation between philosophy and politics. Prerequisite: Politics 237. Three hours per week. Four semester hours.

POL-338. Modern Political Philosophy
Dr. Stern
This course examines and evaluates the world-revolutionary challenge to classical and medieval political philosophy posed by such writers as Machiavelli, Hobbes, Spinoza, Locke, Rousseau and Hegel. Prerequisite: Politics 237. Three hours per week. Four semester hours.

POL-339. Contemporary Political Philosophy
Dr. Stern
This course examines selected authors and issues in contemporary political philosophy. We will read the works of such authors as Nietzsche, Heidegger, Kojève, Rawls and Foucault. We will consider such issues as historicism, contemporary liberalism, feminism,
and Marxism. Prerequisite: Politics 237. Three hours per week. Four semester hours.

POL-344. Political Development Dr. Hood
An analysis of political change in developed and less-developed countries, focusing on the various theories used to explain socioeconomic and political conditions, and development strategies among several political systems in the international community. Prerequisite: Politics 242. Three hours per week. Four semester hours.

POL-346. Japanese Politics Dr. Hood
Focus on 20th-century Japanese politics. Examines the major issues, events, institutions and trends of the modern Japanese political experience. Prerequisite: Politics 242. Three hours per week. Four semester hours.

POL-347. Chinese Politics Dr. Hood
Focus on the government and politics of 20th-century China. Examines the issues, events, personalities and policy trends of the modern Chinese political experience. Prerequisite: Politics 242. Three hours per week. Four semester hours.

POL-352. Theories of International Relations Dr. Berry, Dr. Hood
This course explores the theories that have been used to study international relations from ancient times to the present. Particular attention is given to the roots of contemporary theories, especially realism, neoliberalism, imperialism, neorealism, and international political economy. Prerequisite: Politics 252. Three hours per week. Four semester hours.

POL-353. International Relations of Asia Dr. Hood
An examination of the foreign and international policies of the major countries of East Asia. Special emphasis is given to the politics of international trade and economics, war and security issues, and the role of the superpowers in the East Asian region. Prerequisite: Politics 252. Three hours per week. Four semester hours.

POL-355. U.S. Foreign Policy Dr. Berry
Works of scholars and statesmen analyze the process and substance of recent foreign policy. Attention is paid to the capabilities of presidents, the influence of Congress and public opinion, and the organization and function of the National Security Council. Prerequisite: Politics 252. Three hours per week. Four semester hours.

POL-356. International Organizations Dr. Berry
A study of governmental international organizations with emphases on the functions of the United Nations and the foreign policy of one of its members. Open only to members and alternates selected to Ursinus’ National Model UN delegation. Does not satisfy major or minor requirements in politics or international relations. One semester hour.

POL-357. War and Revolution Dr. Berry
Various theories of international conflict will be tested by way of a series of case studies on 20th-century wars and revolutions. The Inter-Nation Simulation will be played using historical or hypothetical conflict to further test theories. Prerequisite: Politics 252. Three hours per week. Four semester hours.

POL-381. Internship in Politics and Government Staff
Internship in a public or governmental organization or participation in an overseas study program. A 2.67 grade average and permission of the department are required. Four semester hours.

POL-399. Topics in Law and Politics Staff
An occasional course dealing with special subject areas or events. Four semester hours.

POL-418W. Seminar in American Government Dr. Fitzpatrick
Intensive study of a special topic in American government emphasizing original research and substantial oral and written work. Prerequisites: English 100, junior or senior status and one 300-level course in American government. Three hours per week. Four semester hours.

POL-437W. Seminar in Political Philosophy Dr. Stern
Intensive study of a special topic in political philosophy emphasizing original research and substantial oral and written work. Prerequisites:
POLITICS AND INTERNATIONAL RELATIONS

English 100, junior or senior status and one 300-level course in political philosophy. Three hours per week. Four semester hours.

POL-442W. Seminar in Comparative Politics Dr. Hood
Intensive study of a special topic in comparative politics emphasizing original research and substantial oral and written work. Prerequisites: English 100, junior or senior status and one 300-level course in comparative politics. Three hours per week. Four semester hours.

POL-452W. Seminar in International Politics Dr. Berry
Intensive study of a special topic in international politics emphasizing original research and substantial oral and written work. Prerequisites:

INTERNATIONAL RELATIONS

Professors Berry, Clark, Doughty, Gallagher; Associate Professors Hood (Chair), King, Oboler, O’Neill.

International relations majors become capable of living and working in a worldwide setting by developing an understanding of how that setting came to be and how its various political, economic, and social systems function.

Requirements for International Relations Majors

The international relations major is an interdisciplinary program for students interested in careers in international politics and diplomacy, intelligence work, higher education, international law, international trade, journalism, and other fields where expertise in international affairs is necessary. Courses required to complete the international relations major include: Politics 100, 242, 252, 352, EcBA 100, History 207, and a capstone consisting of either Politics 442W, 452W, History 400W, or IR 400W (Note: Students planning to do graduate study in political science should take Politics 218 and 237 as well). Majors are additionally required to take four of the following courses, including courses in at least two different departments: Politics 344, 346, 347, 353, 355, 357; History 205, 241, 243, 253, 308, 316, 344, 365; EcBA 251, 252, 308, 309, 314, 328; or Anthro 242, IDS 332. Finally, all students in the IR major must take at least two courses at the 200 level or above in a foreign language. IR majors are strongly encouraged to pursue study-abroad options. The department regularly tries to accommodate students by accepting courses taken abroad in fulfillment of major requirements.
Requirements for International Relations Minors

The international relations minor consists of Politics 100, 242, 252, 352, and one course from either Politics 344, 346, 347, 353, 355, 357, or History 207.

IR-400W. Research in International Relations

This capstone course will require a series of short papers and a major research project. An oral presentation will be made before an upper-division course on the subject. Three hours per week. Four semester hours.

PSYCHOLOGY

Professors Chambliss (Chair), Fago, Rideout; Associate Professors Richardson, England; Lecturer McMahon.

The objectives of the department of psychology for the student are 1.) to familiarize the student with the general methods of behavioral research; 2.) to familiarize the student with the various content areas of psychology; 3.) to develop an appreciation of the interplay of theory and research in psychology; and 4.) to develop the ability for critical, analytic and independent thinking in the realm of behavioral science.

A student meeting these objectives is prepared not only for graduate work in psychology and the behavioral sciences, but also for study in other areas and professions, as well as employment in a wide variety of industrial, business, and governmental positions. Also attainable for psychology majors at Ursinus is Pennsylvania certification in social studies for grades 7-12, as well as courses which may apply to graduate school programs elsewhere for elementary and secondary school counselors and for school psychologists. Students and their advisers should consult the education department booklet, Ursinus College Teacher Education Programs.

In order to meet these objectives, the psychology curriculum is divided into four components: major core, ancillary courses, major concentration, minors. These are explained individually below.

A. Major Core

This is required of all psychology majors. It consists of a basic set of courses required of all majors, and four content areas from each of which the student must select one course.

1. Required: Psychology 100, 110, 210W.

2. Content areas: each student must select one course from each content area.
PSYCHOLOGY

b. Developmental/Personality: Psychology 345, 355, 450, 455.
d. Research/Theory: Psychology 481, 482, 491, 492, 495.

3. Six additional elected credits in Psychology.

B. Ancillary Courses
Required of all majors
1. Biology 100Q, 200 or 111Q, 112Q.
2. Eight credit hours in the non-Psychology social sciences; anthropology, economics, politics, sociology and CST 105 (Mass Media and Society).

C. Major Concentration
This is not required but rather intended for the student who plans to pursue graduate study in psychology or related fields.
2. Psychology 481 or 482, 491 or 492 (beyond the course taken as part of the major core).
3. Three electives from departmental offerings at the 300-400 level.

D. Minor Concentrations
A minor concentration in general psychology consists of Psychology 100 and 110; one course in experimental psychology chosen from 320, 325, 330 or 340; one course in developmental/personality psychology chosen from 345, 355, 450 or 455; one course in social/applied psychology chosen from 360, 365, 440, or 465.

A minor concentration in human behavioral development consists of Psychology 100, 110, 345, 355, and 455.

A minor concentration in neuroscience consists of Biology 317; Psychology 110, 320 and 325; and either Psychology 481 or 482 (approved topic applicable to the neurosciences), or Biology 481 or 482 (approved topic applicable to the neurosciences), or Biology 332. Psychology 327 is recommended but not required.

PSYC-100. Introductory Psychology Staff
This course is an introduction to psychological research and topics selected to illustrate interdisciplinary and cross-cultural perspectives. The goal is to enhance insight into individuals, the internal factors that influence their psychological processes, and their relationship with their social milieu. Four hours per week. Four semester hours.

PSYC-110. Research and Statistical Methods Dr. Fago
This course is an introduction to psychological research, emphasizing non-experimental research methodologies including field studies, correlational research, and quasi-experimental and ex post facto research designs. Topics covered include the following: operationism, measurement and error, subject and variable
selections, experimental control, and ethical issues. Students will also be introduced to the use of statistics as a research tool. Three hours lecture, two hours laboratory per week. *Four semester hours.*

**PSYC-210W. Experimental Design and Statistical Methods**  
*Dr. Rideout*

This course is designed to familiarize the student with principles of experimental design, statistical techniques, and laboratory methods used in psychology. Lectures, demonstrations, data collection, and the preparation of scientific reports. Prerequisites: English 100, Psychology 100, Psychology 110, Math 241, or permission of instructor. Three hours lecture, two hours laboratory per week. *Four semester hours.*

**PSYC-260. Mental Health and Abnormal Psychology**  
*Dr. Chambliss*

Mental health problems are examined from the biological, behavioral, cognitive, humanistic/existential and sociocultural perspectives. Topics include reactive, anxiety, and personality disorders, psychosis and organic disorders, and substance abuse. Prevention and treatment of mental illness are discussed. Prerequisite: Psychology 100. Three hours per week. *Four semester hours.*

**PSYC-265. Educational Psychology**  
*Staff*

Educational application of psychological concepts will be addressed. The focus is on the psychological processes involved in learning and behavior management in the classroom, but the course includes a survey of cognitive and social development (the same course as Education 265). Prerequisite: Psychology 100. Three hours per week. *Four semester hours.*

**PSYC-301. Reading in Psychology**  
*Staff*

Individual study of one or more selected topics in the psychological literature, and preparation of an annotated bibliography of a detailed proposal for subsequent research. To register for this course, the student must have the consent of a member of the psychology staff to serve as adviser. *One semester hour.*

**PSYC-302. Reading in Psychology**  
*Staff*

Content and prerequisites as in Psychology 301, but offered in the spring term. *One semester hour.*

**PSYC-320. Sensation and Perception**  
*Dr. Rideout*

The nature of the fundamental sensory processes will be explored with emphasis on vision and audition. Theory and experiments bearing on significant perceptual phenomena will be surveyed from both physiological and behavioral viewpoints. Prerequisites: Psychology 100, Psychology 110. Three hours of lecture, two hours of laboratory per week. *Four semester hours.*

**PSYC-325. Behavioral Neurosciences**  
*Dr. Rideout*

A study of the structure and function of the vertebrate nervous system, particularly of the neural substrates of behavior. Topics include evolutionary, anatomical and physiological approaches to the nervous system and behavior. Some emphasis will be placed on topics in sleep research and in cerebral lateralization of function. May be taken in conjunction with Psychology 327. Prerequisites: Psychology 100; Biology 100 or 111; or permission of the instructor. Three hours per week. *Three semester hours.*

**PSYC-327. Neurosciences Laboratory**  
*Dr. Rideout*

A study of nervous system structure and function using the basic anatomical, physiological, and behavioral methods of the neurosciences. Topics include gross and microscopic neuroanatomy, electrophysiological recording, techniques of stereotaxic surgery, and experimental interventions in the central nervous system. Corequisites: Psychology 325 and permission of the instructor. Two hours per week. *One semester hour.*

**PSYC-330. Cognitive Psychology**  
*Dr. Fago*

A review of contemporary research and theory dealing with human mental processes. Topics covered include attention, pattern recognition, structure of memory, memory processes, and language acquisition. Prerequisites: Psychology 100 and 210W. Three hours lecture, two hours laboratory per week. *Four semester hours.*
PSYCHOLOGY

*PSYC-340. Learning and Motivation  
Dr. Fago

A review of learning theory, past and contemporary. Emphasis will be on the basic processes of classical conditioning and instrumental learning, the phenomena associated with these processes, and the development of learning theory in response to experimentation. Lectures, individual experimentation, and the preparation of scientific reports. Prerequisites: Psychology 100 and 210W. Three hours lecture, two hours laboratory per week. *Four semester hours.*

PSYC-345. Child Development  
Dr. England

A study of human development from conception through childhood. Physical, cognitive, and social development will be reviewed in terms of psychological theory and empirical research. Emphasis will be given to the interaction between cultural and individual influences on the course of development. Prerequisite: Psychology 100. Three hours per week. *Four semester hours.*

PSYC-355. Adolescent Psychology  
Dr. Fago

A review of research and theory of physical, psychological, and social development during adolescence. Topics covered will include physical/sexual development, cognitive development, personality development, sex roles and gender identity, peer and familial influences, and social development. Prerequisite: Psychology 100. Three hours per week. *Four semester hours.*

PSYC-360. Psychology in the Community  
Dr. England

Application of psychological theory, research methods, and empirical findings to community programs dealing with contemporary social problems, such as crime and delinquency, racial prejudice, environmental pollution, mental illness, drug addiction, poverty, and other forms of deprivation. Prerequisite: Psychology 100. Three hours per week. *Four semester hours.*

PSYC-365. Organizational Psychology  
Dr. Richardson

The study of human behavior in work settings. Motivation and productivity, personnel selection, human-computer interaction, and causes and consequences of job stress. The effects of different approaches to management are addressed. Prerequisites: Psychology 100; Math 241. Three hours per week. *Four semester hours.*

PSYC-375. Adulthood and Old Age  
Dr. England

A survey of physical, social, and cognitive changes in adulthood with a focus on old age. The survey course will review research and theory from the lifespan perspective. Prerequisite: Psychology 100. Three hours per week. *Four semester hours.*

PSYC-381. Psychology Internship  
Dr. Chambliss

An off-campus academic/work experience under the supervision of an internship adviser and an on-site supervisor. Contact departmental chair for further information. Prerequisites: Junior standing, nine credits in psychology, and approval of a faculty internship adviser. Eight to ten hours per week. *Three semester hours.*

PSYC-440. Social Psychology  
Dr. Richardson

The study of social forces as they originate with and impinge on individuals. Attitude-behavior relationships, group membership, and causes of antisocial and prosocial behavior are analyzed. Historical perspectives are included. Three hours per week. Prerequisites: Psychology 100 and Math 241. Three hours per week. *Four semester hours.*

PSYC-450. Psychopathology and Psychotherapy  
Dr. Chambliss

Clinical and experimental approaches to the understanding and treatment of psychosis, anxiety disorders, and related conditions. Selected topics are studied intensively to illustrate the wide variety of contemporary viewpoints and techniques. Prerequisites: Psychology 100, 260, and 265 or 345. Three hours per week. *Four semester hours.*

*This course is not available in 1997-98.
PSYC-455. Personality  Dr. Chambliss
A comprehensive survey of psychological theory and research dealing with the normal aspects of human nature. The psychoanalytic, biogenetic, trait, humanistic, and behavioral perspectives will be explored. Prerequisites: Psychology 100, 260, and 265, 355 or 345. Three hours per week. Four semester hours.

PSYC-465. Testing and Assessment  Dr. Richardson
Introduction to procedures and instruments related to the assessment of individuals and outcomes in educational and institutional settings. The course will review issues related to program evaluation as well as the development and use of aptitude, achievement, and personality tests. Prerequisites: Psychology 100 and Math 241. Three hours per week. Four semester hours.

PSYC-480. History and Theories of Psychology  Dr. Fago
The philosophical underpinnings of psychology from the Greeks to the 19th-century empiricists will be explored. The development of scientific paradigms to address fundamental philosophical issues will then be traced in the emergence of contemporary psychology. A critique of psychology as a method of inquiry and as a theory of knowledge will be attempted within the framework of a philosophy and sociology of science. Three semester hours per week. Four semester hours.

PSYC-481. Research  Staff
Investigations of an experimental, clinical or theoretical nature pursued independently by the student. The preparation of a written and oral scientific report is required. To register for the course, a student must have the consent of a member of the psychology staff to serve as his or her adviser. Prerequisite: CST-201 (CA-100). Four semester hours.

PSYC-482. Research  Staff
Content as in Psychology 481, but offered in the spring term. Students who have been admitted to the course and who have fulfilled its requirements may be awarded departmental honors, but no additional semester hours of credit, if they have qualified in other ways for admission to the honors program. Prerequisite: CST-201 (CA-100). Four semester hours.

PSYC-491. Research/Independent Work  Staff
This course is open to candidates for departmental honors and to other students with the permission of the departmental chairperson. The preparation of a written and oral scientific report is required. Prerequisite: CST-201 (CA 100). Four semester hours.

PSYC-492. Research/Independent Work  Staff
A continuation of Psychology 491. Prerequisite: Psychology 491. Four semester hours.

PSYC-495. Seminar in Psychology  Staff
A seminar intended to familiarize the student with the current trends and special topics in theoretical and applied psychology. Emphasis will be given to the preparation and oral presentation of papers on selected topics which will vary from year to year. Open to third- and fourth-year students majoring in psychology. Prerequisite: CST-201 (CA-100). Three hours per week. Four semester hours.

RELIGION
See Philosophy and Religion

SPANISH
See Modern Languages
WOMEN'S STUDIES

Professor Hall; Associate Professors Czubaroff, Dole, England (Coordinator), Hemphill, Lionarons, Oboler.

Women’s Studies is an interdisciplinary minor which places the study of women and women’s experience at the center of the curriculum. It is designed to examine women’s experience in and contributions to the world from a cross-cultural perspective, as well as to explore the challenges and limitations placed on women today.

Requirements for Minors

A minor concentration in Women’s Studies consists of 16 credits. All students must take IDS 200 Women’s Studies. The remaining credits must come from the following: ANSO 226, ANSO 262, English 228, History 328, History 366. Seminars, special topics courses, and up to four credits of independent study projects above the 100 level which deal with Women’s Studies may be substituted for the courses listed above with the approval of the course instructor and the coordinator of Women’s Studies.
## BOARD OF DIRECTORS

<table>
<thead>
<tr>
<th>First Elected</th>
<th>Term Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE HON. JOAN D. AIKENS, B.A.</td>
<td>1985</td>
</tr>
<tr>
<td>Commissioner</td>
<td>Federal Election Commission</td>
</tr>
<tr>
<td>Partner</td>
<td>Lerch, Early &amp; Brewer Chartered</td>
</tr>
<tr>
<td>Director, Skirball Museum</td>
<td>Hebrew Union College</td>
</tr>
<tr>
<td>ROBERT L. BRANT JR., B.A., J.D.</td>
<td>1996</td>
</tr>
<tr>
<td>Partner, Keenan, Ciccitto &amp; Brant</td>
<td>Collegeville, PA</td>
</tr>
<tr>
<td>DAVID A. CORNISH, A.A.</td>
<td>1986</td>
</tr>
<tr>
<td>JOHN E.F. CORSON, B.A.</td>
<td>1983</td>
</tr>
<tr>
<td>President</td>
<td>Corson Investment Company</td>
</tr>
<tr>
<td>Metropolitan Life Insurance Co.</td>
<td>New York, N.Y.</td>
</tr>
<tr>
<td>BETTY BROWN DANDO, B.S.</td>
<td>1989</td>
</tr>
<tr>
<td>School Administrator (Retired)</td>
<td>Glenside, Pa.</td>
</tr>
<tr>
<td>PAUL L. DOUGHTY, B.A., Ph.D.</td>
<td>1987</td>
</tr>
<tr>
<td>Professor Emeritus, Anthropology</td>
<td>University of Florida</td>
</tr>
</tbody>
</table>
URSINUS COLLEGE CATALOG

LLEWELLYN F. DRYFOOS, JR., B.A.  1988  1998
President
Dryfoos Insurance Agency, Inc.
Hazleton, Pa.

President
ViaCord, Inc.
Boston, Mass.

SPENCER FOREMAN, B.S., M.D.  1995  2000
President
Montefiore Medical Center
Bronx, N.Y.

Of Counsel
Schnader, Harrison, Segal & Lewis
Willow Grove, Pa.

Technical Group Manager
E.I. DuPont
Richmond, Va.

ROBERT F. HARTMAN, B.A.  1986  1996
Partner
R.J. Carroll Co., Inc.
Springfield, Pa.

Vice President
Bryn Mawr Trust Company
Bryn Mawr, Pa.

Of Counsel
Curtin and Heefner
Perkasie, Pa.

PAUL E. LEISER, B.S.  1995  2000
Vice President
Avalon Real Estate Agency
Avalon, N.J.

MARILYN S. LEWIS  1995  2000
Community Volunteer
Schwenksville, Pa.

MICHAEL J. LEWIS, B.S., M.S., Ph.D.  1991  2001
Professor & Chairman of Psychology
Temple University

GEOFFREY MARSHALL, B.A., M.A., Ph.D.  1986  2001
Provost and Senior Vice President
The City University of New York
New York, N.Y.
<table>
<thead>
<tr>
<th>Name</th>
<th>Years</th>
<th>Title/Position</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR. ALBERT M. PAOLONE</td>
<td>1996-2001</td>
<td>Professor of Exercise and Environmental Physiology</td>
<td>Temple University</td>
</tr>
<tr>
<td>ROBERT A. REICHLEY</td>
<td>1987-1997</td>
<td>Secretary of the University</td>
<td>Brown University</td>
</tr>
<tr>
<td>DONALD G. STAUFFER</td>
<td>1988-1998</td>
<td>Vice President</td>
<td>Drake Beam Morin, Inc.</td>
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MARILYN L. STEINBRIGHT, B.S., LL.D. 1975 2000
President
Arcadia Foundation
Norristown, Pa.

Executive Vice President, Retired
Association of American Medical Colleges
Washington, D.C.

President
Ursinus College
Collegeville, Pa.

Assistant Principal
Pennsauken High School
Pennsauken, N.J.

Pastor Emeritus
New Goshenhoppen Reformed Church
Macungie, Pa.

WILLIAM G. WARDEN, B.A. 1982 1997
Chairman
CAWSL Corporation
Wynnewood, Pa.

Pastor
Good Shepherd Lutheran Church
Naperville, Ill.

LIFE MEMBERS

JAMES H. BAIRD, B.S., M.S., Sc.D. 1979
Chadds Ford, Pa.

THOMAS J. BEDDOW, B.A., J.D., LL.D. 1958
Hobe Sound, Fla.

JAMES G. CROUSE, B.S., M.S. 1980
Limerick, Pa.

Union Bridge, Md.

ALEXANDER LEWIS, JR., B.S., M.S., Ph.D., Sc.D. 1972
Pittsburgh, Pa.

Wernersville, Pa.

WILLIAM S. PETITIT, B.S., M.S., Sc.D. 1970
Naples, Fla.

CARL A. POSSE 1979
Blue Bell, Pa.
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Norristown, Pa.

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United Church of Christ
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DIRECTORY

1971
1971
1976
1975
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(President Strassburger is appointed ex officio to all committees with voice and vote.)

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**ATHLETICS**: STAUFFER, CHAIR, Cornish, Dando, Paolone.

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**DEVELOPMENT**: ABELE, CHAIR, Baer, Brant, Corson, Daly, Dando, Dryfoos, Foreman, Heefner, Leiser, Parlee, Pfeiffer, Richards, Stemmler.

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- **Sub-Committee on Compensation**: HARTMAN, CHAIR, Glassmoyer, Havens, Stauffer.


- **Sub-Committee on Investments**: WARDEN, CHAIR, Abele, Corson, Glassmoyer, Havens, H. Smith.


- **Sub-Committee on Student Life**: TESKE, CHAIR, Bright, Lesier, Marilyn Lewis, Musser, J. Robbins, Taylor, Wenhold.

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**LIBRARY**: BRIGHT, CHAIR, Marilyn Lewis, Richter, Robbins, Steinbright, Taylor.

**LONG-TERM PLANNING**: J. SMITH, CHAIR, Baer, Brant, Poole, Wenhold.

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Assistant Secretary: MARILYN L. STEINBRIGHT, Norristown, Pa.
The Administration 1996-1997

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SUZANNE MARESCO, M.S., Resident Life Coordinator & International Student Adviser
BRIAN McCULLOUGH, M.S.W., Director of Security
URSINUS COLLEGE CATALOG

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LISA MCMASTER, B.S., Financial Aid Associate
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R BRENT THOMPSON, Ph.D., Director of Computing Services
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KARL YERGHEY, Ph.D., Resident Director

The Faculty 1996-1997

President of the College

JOHN STRASSBURGER, Ph.D.
B.A., Bates College; M.A., Cambridge University; Ph.D., Princeton University.

Emeriti

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B.A., Haverford College; M.A., Ph.D., Harvard University.

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B.A., Mount Holyoke College; M.A., Smith College.

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B.S., United States Merchant Marine Academy; M.S., Drexel University; M.A., University of Delaware.

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B.S., U.S. Naval Academy; M.S., Massachusetts Institute of Technology; Ph.D., University of Pennsylvania.
DIRECTORY

ALFRED L. CREAGER, B.D., D.D., Professor of Religion, Emeritus
B.S., Ursinus College; B.D., Lancaster Theological Seminary; D.D., Ursinus College.

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B.A., Ursinus College; M.A., University of Pennsylvania.

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B.A., Ursinus College; M.Ed., Temple University.

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B.S., Ursinus College; M.A., Columbia University; LL.D., Ursinus College.

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B.Sc., D. Sc., Philadelphia College of Pharmacy and Science; M. Sc., University of Wisconsin.

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B.S and M.S., North Texas State University; Ph.D., University of Illinois.

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B.A., Ursinus College; M.A., Ph.D., Clark University; LL.D., Ursinus College.

WILLIAM S CHUYLER PETTIT, M.S., Sc.D., President, Emeritus; Professor of Chemistry, Emeritus
B.S. in Chemistry, M.S., University of Pennsylvania; Sc.D., Ursinus College.

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A.B., M.A., Ph.D., Harvard University.

RICHARD PAUL RICHTER, M.A., LL.D., President, Emeritus
B.A., Ursinus College; M.A., University of Pennsylvania; LL.D., Ursinus College.

BLANCHE BEATRICE SCHULTZ, M.S., Professor of Mathematics, Emerita
B.S., Ursinus College; M.S., University of Michigan.

FAYE FRENCH SHAW, M.S., Associate Professor of Chemistry, Emerita
B.A., University of California; M.S., West Chester State College.

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Professor Czubaroff
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*Academic Support:* Lucas, Jamison, Takata, Economopoulos, R. Dawley, French, and two student representatives.

*Appeals:* Mill, Neslen, Fitzpatrick.

*Campus Planning and Priorities:* Strassburger (Chair), DiFelicianantonio, Levy, Nolan, Pilgrim, Scattergood, Tortorelli, Hemphill, Miller, Small, two student representatives.

*Diversity:* McKinney, Landis, Price, Murphy, Gross, five student representatives.

*Enrollment:* DiFelicianantonio, Pilgrim, Davidson, Fago, King, three student representatives.

*Faculty Affairs:* Strassburger (Chair), Pilgrim, Levy, Economopoulos, Engstrom, King.

*Faculty Development:* Levy (Chair), Stern, Gallagher, Lionarons, Takats, Sidie.


*Graduate and Professional Education:* Lobo, Thelen, Berry, Chambliss, three student representatives.


*Judiciary Board:* Borsdorf, Coleman, Hood, Stern, three student representatives.

*Alternates:* De Catur, Mill, Czubaroff.

*Outcomes Assessment:* Levy, Nolan, Pilgrim, Davidson, Fago, King, three student representatives.

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The American Chemical Society Award in Organic Chemistry -
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The American Institute of Chemists Award - Amy Elizabeth Michel, '96
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The Biology Laboratory Technique Award - Gary Scott Shapiro, '96
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   Danielle Lann-Russell, '99
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The German Award - Julien Marie Grace Pain, '96
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The W. W. Smith Prize-William Gibson Pieper, '96
The Spanish Award-Bridget Ann Grande, '96
The Harry C. Symons Award in Economics and Business Administration-
   Michael Anthony Pizzi, '96
The Robert Truckses Prize-Andrew Wayne Bonekemper, '96
The Teresa L. Urban Leadership Award-Clare Zeberkiewicz, '96
The Wagman Prize-Mark E. Leiser
Wall Street Journal Award-Shane Michael McCrohan, '96
The Professor Elizabeth B. White Award-Jaymie Kate Burkhart, '96
The Whitian Prize-Susan E. Pauley, '99

COMMENCEMENT HONORS

Valedictorian: Ian Joseph Rhile
Salutatorian: Alison P. Heely
Summa Cum Laude:
   Daniel P. Babin
   Rima Michelle Bizri
   Daren Michael Connelly
   Patricia Marie Daly
   Lori L. Engler
   Edward C. Gildea
   Alison P. Heely
   Nicole Angelina Kiwak
   Steven Paul Kneizys
   Jessica Aubrey Mancini

   Michael Edward March
   Shane Michael McCrohan
   Carolyn Cecilia McNamara
   Amy Elizabeth Michel
   Sonja Elizabeth Regelman
   Ian Joseph Rhile
   Lynn Marie Sears
   Gary Scott Shapiro
   Shirinak Shokouhi-Behnam
   Daniel P. Tomlinson

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Magna Cum Laude:
Howard P. Bigelow
Jaymie Kate Burkhart
David S. Chrzanowski
Matthew Paul Ciesinski
Lisa Michele Eberz
Sonnya Luz Espinal
Jacyln Su Harris
Lauren Ruth Jefferis
Janice C. Levengood
Robert Joseph MacNeal
Carolyn Jane Maddaloni
Cathleen E. Malone
Judith Janet Marcus
Catherine Elizabeth Marsh
Anne-Marie Elizabeth McMahon
Patricia Anne Mensch

Cum Laude:
Maria Michele Aumick
Edward L. Bell, '95
Margaret Kirsten Bergner
Andrew Wayne Bonekemper
Ticia Ann Bouchat
John David Brink Jr.
Samantha Kelly Caggiano
Mark Andrew DeWane
Bradley Paul Elling
Marc Ellman
Amanda Susan Fingerlin
Manish Gopal
Rebecca Lynn Gustafson
Jennifer Lynn Helverson
Susan Delaney Jones
Sean Jeffrey Kelley
Jeffrey Michael Kuklinski
Kristin Elizabeth Lindberg
Adam M. Lusk
Sandra L. Mossman
Karen Lena O’Connor
William Gibson Pieper
Michael Anthony Pizzi
Amy Janine Prickett
Heather Noelle Ramsay-Acosta
Stephen Brian Randall
Evelyn E. Roadcap
Jennifer Danine Rupprecht
Jennifer L. Seng
Corrie Ann Stankiewicz
Brenda Lee Stryjewski
Kristin P. Wallin
David Heath Webb
Nicole M. Wood
Clare Zeberkiewicz

DEPARTMENTAL HONORS

Anthropology:
James Daniel Medunick
Mehran Mehrabi
Christopher Hans Meyer
Deborah Ann Quinley
Hope Renee Rinehimer
Mark R. Romano
Charles Edward Schindler, Jr.
Erec Steven Smith
Stacey Lynn Stauffer
Denise Lynn Thomas
Suzanne M. Travaline
Albert B. Tribuno
Diane H. Van Dyke
Richard Earl Walters Jr.
Jeffrey Alan Warner
Charlie Weingroff
Mary M. Widmann
Michele Ann Wlodarczyk
Marcella Dawn Zerr, '95

Biology:
Amanda Joy Mishizen
Gary Scott Shapiro
Anne-Marie Elizabeth McMahon
Clare Zeberkiewicz
Chemistry:
  David S. Chrzanowski
  Sean Jeffrey Kelley
  Mehran Mehrabi
  Amy Elizabeth Michel
  Stephen Brian Randall
  Ian Joseph Rhile
  Jennifer L. Seng
  Corrie Ann Stankiewicz
  Denise Lynn Thomas
  Daniel P. Tomlinson

Classics:
  Jaymie Kate Burkhart

Communications Arts:
  Lori L. Engler
  Mark Ethan Leiser
  Sonja Elizabeth Regelman
  Kimiko Louise Trott

East Asian Studies:
  Alison P. Heely

Economics and Business Administration:
  Michael Anthony Pizzi

English:
  Christopher James Bowers
  Heather Dawn Mead
  Erec Steven Smith

French:
  Judith Janet Marcus

International Relations:
  Sean Maurice Jones

Politics:
  Andrew Wayne Bonekemper

Psychology:
  Kristin Elizabeth Lindberg
  Carolyn Cecilia McNamara
  Shirinak Shokouhi-Behnam

Spanish:
  Bridget Ann Grande
DIRECTORY

PHI BETA KAPPA

Rima Michelle Bizri, '96
Andrew Wayne Bonekemper, '96
Jaymie Kate Burkhart, '96
David S. Chrzanowski, '96
Matthew Paul Ciesinski '96
Lisa Michele Eberz, '96
Lori L. Engler, '96
Amanda Susan Fingerlin, '96
Erin E. Gorman, '97
Alison P. Heely, '96
Lauren Ruth Jefferis, '96
Nicole Angelina Kiwak, '96
Steven Paul Kneizys, '96
Carolyn Jane Maddaloni, '96
Cathleen E. Malone, '96
Jessica Aubrey Mancini, '96
Michael Edward March, '96
Judith Janet Marcus, '96
James A. Maynard, '97
Shane Michael McCrohan, '96
Anne-Marie Elizabeth McMahon, '96
*Carolyn Cecilia McNamara, '96
Amy Elizabeth Michel, '96
Karen Lena O'Connor, '96
*Ashok R. Parameswaran, '97
William Gibson Pieper, '96
Michael Anthony Pizzi, '96
Christina M. Radzai, '97
Heather Noelle Ramsay-Acosta, '96
Sonja Elizabeth Regelman, '96
*Ian Joseph Rhile, '96
Jennifer Danine Rupprecht, '96
Laura E. Seidel, '97
Jennifer L. Seng, '96
Shirinak Shokouhi-Behnam, '96
*Gary Scott Shapiro, '96
Corrie Ann Stankiewicz, '96
*Brenda Lee Stryjewski, '96
Daniel P. Tomlinson, '96
Kristin P. Wallin, '96
David Heath Webb, '96
Nicole M. Wood, '96
Clare Zeberkiewicz, '96

* elected junior year

CUB AND KEY

Michael E. Antonio, '97
Eric Sean Bohn, '96
Todd M. Brenneman, '97
William J. Buckingham, '97
Nha Cao Bui, '96
David S. Chrzanowski, '96
Matthew E. Caia, '97
Matthew Paul Ciesinski, '96
Marc Ellman, '96
Rocco J. Iacullo IV, '97
Andrew W. Johnson, '97
Mile M. Katusa, '97
Jason A. Kline, '97
Mark E. Leiser, '96
James A. Maynard, '97
Ashok R. Parameswaran, '97
Michael Anthony Pizzi, '96
Ian Joseph Rhile, '96
Ryan G. Rhodes, '97
Joel M. Schofer, '97
Gary Scott Shapiro, '96
Erec Steven Smith, '96
Kevin M. Stratton, '97
Jonathan Scott Strong, '96
Daniel P. Tomlinson, '96
Charlie Weingroff, '96

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WHITIANS

Maria M. Aumick, '96
Margaret Kirsten Bergner, '96
Corinne Felicia Boettger, '96
Jennifer T. Courtney, '97
Elizabeth A. Cullen, '97
Jennifer Ann Donecker, '96
Amanda Susan Fingerlin, '96
Semra L. Forman, '96
Mary Pearl Greiss, '96
Jennifer Lynn Helverson, '96
Jessica A. Hessel, '97
Heather C. Kerlin, '97
Lori J. Lennon, '97
Cathleen E. Malone, '96
Michelle D. Miller, '97

Heidi Lynn McMichael, '96
Carolyn Cecilia McNamara, '96
Karen Lena O'Connor, '96
Julien Marie Grace Pain, '96
Dianna Justine Paul, '96
Heather Noelle Ramsay-Acosta, '96
Sonja Elizabeth Regelman, '96
Nicole Dionsia Rodriguez, '96
Kristen I. Sabol, '97
Wendy E. Sands, '97
Sruthi Tallapragada, '97
Karen E. Tyson, '97
Jennifer L. Young, '97
Claire Zeberkiewicz, '96

DEGREES-HONORARY

Doctor of Divinity
Doctor of Human Letters

FACULTY AWARDS

The Laughlin Professional Achievement Award
Dr. Collette Hall

The Lindback Award
Dr. Paul Stern

GRADUATES

Associate in Arts

Toni Lee Barnes Buzby

Associate in Business Administration

Donna Marie Berndt, '95
Maryanne Margaret Ragan Brooke
Vicki Hager Chapman
Maria Kathleen Deegan-Carroll
Becki D. Dolhanczyk
Joan R. Drummer
Adrienne Jan Gallagher
Linda A. Gordy, '95
Scott Eugene Hafer
Jacqueline Elaine Jakielaszek
Christine A. Kratz

Nathan Michael Lee
Randy S. Lockowtiz, '95
Barbara Ann McCoskery
Patricia A. McCoy
Louise Barbara Moffett
Barbara S. Moyer
William K. Mullan
Sandra L. Nase
John V. Pellechia
Frances Z. Plummer
Karen S. Poske
DIRECTORY

Barbara J. Rossnagel
Anne Sleath Ryan
Jeffrey Bruce Schubert

Teri L. Swartz, '95
Betty Kulp Weber
David P. Yanusko

BACHELOR OF BUSINESS ADMINISTRATION

Daniel P. Babin
Edward L. Bell, '95
Gary Lee Bender
Gregory S. Biagini
Howard P. Bigelow
John David Brink Jr.
Elizabeth Yarnall Brull
Monika C. Carnal
Lisa Anne Christman, '95
Shirley Jane Codispoti
Edward Charles Conard
Daren Michael Connelly
Eileen Marie Czekner
Patricia Marie Daly
Deborah Joan Drevyanko
Mary Ellen Durning
Carol Dutchman
Bradley Paul Elling
Bryan J. Fitzpatrick
Carolyn G. Fronheiser
Mark J. Gibson, '95
Lori L. Haas
George Melvin Heidler
Alan Edward Kinley, '95
Cathy Klock

James R. Kramer
Elizabeth A. Lewis
James Daniel Medunick
Christopher Hans Meyer
Bonita Sue Mutter
John W. Myers Jr.
Patricia A. Nace
Andrew H. O'Hara
Debra Ann Pence
Leslie I. Pennypacker
Kimberly Weber Rantz
Melanie Ann Rissler
Evelyn E. Roadcap
Lynn Marie Sears
Bradley Bright Smith
Robin R. Snyder
Linda M. Thomas
Gregory Kent Thompson
Suzanne M. Travaline
Albert B. Tribuno
Kevin G. VanWicklen
Richard Earl Walters Jr.
David P. Young
Marcella Dawn Zerr, '95
Daniel John Zielinski

BACHELOR OF ARTS

Michael A. Aceto
John Ivan Armich Jr.
Benjamin Reid Barbor
John Morrell Barbour
Elizabeth Ann Barnett
Laura Alice Bell
Christian Jameson Belville
Victoria Brooke Bennison
Margaret Kirsten Bergner
Thomas Andrew Birchler

Tobias Anthony Blanck
William Anthony Blewitt
Jayson Eric Blockidge
Cara Ann Bond
Andrew Wayne Bonekemper
Kurt William Bonowitz
Christopher James Bowers
Angela Marie Brader
Carol Ann Brewer
Erin Eileen Burke
Denise Joan Short
Kerri Beth Slattery
Erec Steven Smith
Howard Chester Smoyer III
Tremain L. Stanley
Stacey Lynn Stauffer
William John Stiles
Matthew Brendan Sutin
Rebecca Lynn Swavely
Seth John Tanner
Kimiko Louise Trott
Colin F. Tucker
Roger Tucker

Matthew Alexander Ung
Diane H. Van Dyke
Michael Francis Vergano, Jr.
Scott Alan Voth
Linda Horning Walkup
Kristin P. Wallin
Mary M. Widmann
Morgan Brett Wordley
Heidi Louise Wushinske
Vazken A.E. Zerounian
Steven Joseph Zolfaghari
James Edward Zurad

BACHELOR OF SCIENCE

Heather Lyn Achenbach
Robert Michael Altman
William Bradford Anderson IV
Justine Kelly Ashworth
Eric Michael Athearn
Maria Michele Aumick
Nicole Anne Barber
Pamela Suzanne Bitzer
Rima Michelle Bizri
Charles William Blackledge
Patricia Ellen Blair
Corinne Felicia Boettger
Justine Florence Boettger
Lisa Ann Bogle
Eric Sean Bohn
Ticia Ann Bouchat
Michael James Breen
Kelly Ann Brown
Nisha Yadunandan Buch
Nha Cao Bui
Samantha Kelly Caggiano
Dennis Myo Chen
David S. Chrzanowski
Anthony Andrew Ciliberto
Matthew David Connearney
Tara Louise Cope
Laura Michelle Coulter

Brian Peter Coyle
Kenneth Russell Crawford III
Jocelyn Denise Cushing
Alicia Ann Darby
John Kevork Derderian
Danielle Currie Deschene
Mark Andrew DeWane
Melissa Ann Dolan
Jennifer Ann Donecker
Shannon Rae Dougherty
Ariana Dubynin
Nicole Marie Eberwein
Lisa Michele Eberz
Christine Eichelberger
Marc Ellman
Rebecca A. Fairchild
Albert R. Ferguson
Hollie Christina Fetter
Amanda Susan Fingerlin
Melissa Lynn Fisher
Maureen Fitzgerald
Kevin Lawrence Flanagan
Karen Elizabeth Fleshman
Allyson Ashley Flynn
Regina Anne Foley
Charles Gerard Gallagher
Michael John Gamble
URSINUS COLLEGE CATALOG

Troy Conrad Gehret
Christine Renee Getty
Sormeh Ghaffari
Francesca Giaimo
Lisa Ann Giannone
Brad Asher Godes
Barbara Ann Golley
Jason P. Gootman
Manish Gopal
Daniel Douglass Gotsch
Daniel Graf
Bridget Ann Grande
Mary Pearl Greiss
Ted Assadour Gulesserian
Rebecca Lynn Gustafson
Erik Edward Hansen
Jennifer Hasan
Jennifer Lynn Helverston
Nichole Denise Hobbs
Jason Randolf Hoffman
Colleen Michele Holland
Francyne Mary Holland
Kirk Lyle Holt
Sarah Elizabeth Hopkins
Jennifer Lynn Howe
Robert Benjamin Isett
Lauren Ruth Jefferis
Kristen Marie Jensen
Jennifer Lynn Johanson
Steven R. Johnson
Kathleen Marie Kalbacher
Tanya Rene Kaszyski
Sean Jeffrey Kelley
Peter Michael Kern
Philip E. Kern III
Nicole Angelina Kiwak
Heather Lynn Klinger
Francis Xavier Knebels
Steven Paul Kneizys
Jeffrey Michael Kuklinski
Outey Ky
David M. Laganella
Joseph LaPella III
Richard Kim Le
Darnell Ahmed Lee
Janice C. Levengood
Michelle Teresa Lim
Kristin Elizabeth Lindberg
Chad David Lonergan
Christopher Michael Lonergan
Robert Joseph MacNeal
Cathleen E. Malone
Jessica Aubrey Mancini
Elizabeth Tolerton Mansfield
Michael Edward March
Alyssa Lynn Marquis
Catherine Elizabeth Marsh
Alicair Rory Marshall
Kellie Lynn Martin
John Michael Maslowski
Penny J. Komssi Maurer
Sean Patrick McGlinn
Heidi Lynn McMichael
Melanie Ruth McMullin
Carolyn Cecilia McNamara
Martin J. McNamee
Mehran Mehrabi
Christopher Charles Meloro
Patricia Anne Mensch
Amy Elizabeth Michel
Heidi Lynn Miller
Kimberly Patricia Miller
Grace Min
Amanda Joy Mishizen
Edgar Charles Moore
Jessica Margaret Morin
Sandra L. Mossman
Michelle Lynn Moyer
Michael A. Nagle John Noone
Karen Lena O'Connor
Lori Anne Olea
Cheryl Ann Opalkowski
Michael B. Ortman Jr.
Kathleen Louise Ottaviano
David Robert Patrick
Dianna Justine Paul
Matthew Robert Pepe
Natalie Marie Pergine
Son Minh Pham
Amy Lynn Philipp
Ellen Marie Plebani
Kelly Lynn Portser
Brendan T. Powell
Matthew Robert Quail
Christopher Paul Radano
Heather Nöelle Ramsay-Acosta
Stephen Brian Randall
Ian Joseph Rhile
Hope Renee Rinehimer
Nicole Dionesia Rodriguez
Bernard Francis Rogers III
Suzanne Catherine Rojas
Jennifer Lynn Rolette
Mark R. Romano
Jennifer Danine Rupprecht
Kimberly Elaine Ryan
Kimberly Ann Sammartino
Crystal Lynn Schaeffer
Robin Lynn Scheideler
Charles Edward Schindler, Jr.
Jennifer Lynne Schmidt
Brian Scott Schultz
Jennifer L. Seng
Vidya Polepalli Setty
Gary Scott Shapiro
Amy Jean Shelley
Shirinak Shokouhi-Behnam
Joseph Michael Simione
Robin Jean Simpson
Bret Patrick Smith
Kevin Michael Smith
Nichole Susan Smith

Christine Ann Sofka
Corrie Ann Stankiewicz
Kathleen Ann Steele
Danielle Renee Stock
Jennifer Lynn Stone
Jonathan Scott Strong
Brenda Lee Stryjewski
Eleanor Mary Stutzman
Raquel Marie Szlanic
Jennifer Ann Taylor
Denise Lynn Thomas
Daniel P. Tomlinson
Kristina Melissa Tracy
Diane M. Travaglini
Michael Kenneth Tucci
O. Alexandra Ugarte
Jennifer L. Urban
William R. Vagnoni III
Bhavesh Kanchan Vaidya
Minh Ngoc Vu
Abigail Leigh Walls
Jeffrey Alan Warner
David Heath Webb
Sara Helton Webb
Brian Edgar Webster
Charlie Weingroff
Melanie A. Williams
Brigid Danielle Williamson
Michele Ann Wlodarczyk
Nicole M. Wood
Roderick Ian Wood
Michael C. Woodruff
Clare Zeberkiewicz
Faith Anita Zerbe
<table>
<thead>
<tr>
<th>Month</th>
<th>Day</th>
<th>Event Description</th>
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<tr>
<td>January</td>
<td>22 Wed</td>
<td>Second semester begins, 8:00 a.m.</td>
</tr>
<tr>
<td>February</td>
<td>5 Wed</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>February</td>
<td>15 Sat</td>
<td>Deadline for freshmen filing financial aid applications (FAFSA/PROFILE)</td>
</tr>
<tr>
<td>March</td>
<td>7 Fri</td>
<td>Mid-semester grades due</td>
</tr>
<tr>
<td>March</td>
<td>7 Fri</td>
<td>Spring vacation begins, end of classes</td>
</tr>
<tr>
<td>March</td>
<td>17 Mon</td>
<td>Spring vacation ends, 8:00 a.m.</td>
</tr>
<tr>
<td>March</td>
<td>19 Wed</td>
<td>Last day to drop courses without recording a failure</td>
</tr>
<tr>
<td>April</td>
<td>1 Tue</td>
<td>Last day for upper-class students to file an FAFSA/Institutional Verification Form for 1997-98</td>
</tr>
<tr>
<td>April</td>
<td>7 Mon</td>
<td>Fall semester registration begins</td>
</tr>
<tr>
<td>April</td>
<td>18 Fri</td>
<td>Fall semester registration ends</td>
</tr>
<tr>
<td>May</td>
<td>1 Thu</td>
<td>Last day to file FAFSA for PA State Grant Consideration</td>
</tr>
<tr>
<td>May</td>
<td>6 Tue</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>May</td>
<td>6 Tue</td>
<td>Last day to drop a course</td>
</tr>
<tr>
<td>May</td>
<td>7 Wed</td>
<td>Reading Day</td>
</tr>
<tr>
<td>May</td>
<td>8 Thu</td>
<td>Second semester examinations begin</td>
</tr>
<tr>
<td>May</td>
<td>15 Thu</td>
<td>Second semester examinations end</td>
</tr>
<tr>
<td>May</td>
<td>16 Fri</td>
<td>Baccalaureate</td>
</tr>
<tr>
<td>May</td>
<td>17 Sat</td>
<td>Commencement</td>
</tr>
<tr>
<td>May</td>
<td>30 Fri</td>
<td>Alumni Weekend begins</td>
</tr>
<tr>
<td>June</td>
<td>1 Sun</td>
<td>Alumni Weekend ends</td>
</tr>
<tr>
<td>June</td>
<td>6 Fri</td>
<td>Freshmen orientation</td>
</tr>
<tr>
<td>June</td>
<td>13 Fri</td>
<td>Freshmen orientation</td>
</tr>
<tr>
<td>August</td>
<td>21 Thu</td>
<td>Faculty Conference</td>
</tr>
<tr>
<td>August</td>
<td>22 Fri</td>
<td>Freshmen check-in</td>
</tr>
<tr>
<td>August</td>
<td>24 Sun</td>
<td>Upper-class students check-in</td>
</tr>
<tr>
<td>August</td>
<td>25 Mon</td>
<td>First semester begins, 8:00 a.m.</td>
</tr>
<tr>
<td>August</td>
<td>27 Wed</td>
<td>Ursinus Day Convocation</td>
</tr>
<tr>
<td>September</td>
<td>1 Mon</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>September</td>
<td>2 Tue</td>
<td>Evening classes begin</td>
</tr>
<tr>
<td>September</td>
<td>8 Mon</td>
<td>Last day to add courses</td>
</tr>
<tr>
<td>October</td>
<td>4 Sat</td>
<td>Family Day</td>
</tr>
<tr>
<td>October</td>
<td>10 Fri</td>
<td>Mid-semester grades due</td>
</tr>
<tr>
<td>October</td>
<td>10 Fri</td>
<td>Fall holiday begins, end of classes</td>
</tr>
<tr>
<td>October</td>
<td>15 Wed</td>
<td>Fall holiday ends, 8:00 a.m.</td>
</tr>
<tr>
<td>October</td>
<td>18 Sat</td>
<td>Homecoming Day</td>
</tr>
<tr>
<td>October</td>
<td>24 Fri</td>
<td>Last day to drop courses without recording a failure</td>
</tr>
<tr>
<td>November</td>
<td>2 Sun</td>
<td>Founder’s Day (traditional)</td>
</tr>
<tr>
<td>November</td>
<td>3 Mon</td>
<td>Spring term registration begins</td>
</tr>
<tr>
<td>November</td>
<td>14 Fri</td>
<td>Spring term registration ends</td>
</tr>
<tr>
<td>November</td>
<td>25 Tue</td>
<td>Thanksgiving recess begins, end of classes</td>
</tr>
<tr>
<td>December</td>
<td>1 Mon</td>
<td>Thanksgiving recess ends, 8:00 a.m.</td>
</tr>
<tr>
<td>December</td>
<td>8 Mon</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>December</td>
<td>8 Mon</td>
<td>Last day to drop a course</td>
</tr>
<tr>
<td>December</td>
<td>9 Tue</td>
<td>Reading Day</td>
</tr>
<tr>
<td>December</td>
<td>10 Wed</td>
<td>First semester examinations begin</td>
</tr>
<tr>
<td>December</td>
<td>18 Thu</td>
<td>First semester examinations end</td>
</tr>
<tr>
<td>Month</td>
<td>Day</td>
<td>Date</td>
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<td>-------</td>
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<tr>
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<td>May</td>
<td>29</td>
<td>Friday</td>
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<tr>
<td>June</td>
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<td>Friday</td>
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Ursinus College is located in Collegeville, a borough in Montgomery County, Pa., 25 miles northwest of Philadelphia, and just a few miles from the Norristown and Valley Forge exits of the Pennsylvania Turnpike.