AN EQUAL OPPORTUNITY UNIVERSITY

La Salle University does not discriminate against any applicant because of race, color, creed, sex, age, physical handicap, or national origin. Admission is based upon an applicant's qualifications and ability to meet the established requirements for admission and for specific programs.

ACCREDITATION AND MEMBERSHIPS

La Salle University was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Chemical Society, the Pennsylvania State Board of Law Examiners and the Council of Social Work Education.


RIGHTS AND PRIVACY ACT PROVISIONS

Each year, La Salle University informs students of the Family Educational Rights and Privacy Act of 1974. This Act was intended to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings.

To fulfill basic requirements for compliance with the Act, each institution must inform each student of his/her right to prevent disclosure of personally identifiable information. Although La Salle does not publish a public directory, the Office of the Registrar, at its discretion, does disclose the following information: Name, address, dates of attendance, class, major field of study, and degree(s) conferred (including dates).

Under the provisions of the Rights and Privacy Act, currently enrolled students may withhold disclosure of such information. To prevent disclosure, written notification must be received by the Office of the Registrar by October 1st in the Fall Semester and February 15th in the Spring Semester. The University will honor each request to withhold any of the categories of information listed above but cannot assume responsibility to contact a student for subsequent permission to release them. Decisions about withholding any information should be made very carefully. Should a student decide to inform the institution not to release any information, any future requests for such information from non-institutional persons or organizations will be refused.

La Salle University assumes that failure to request the withholding of "directory information" indicates approval for disclosure.

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LA SALLE UNIVERSITY BULLETIN

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A Profile
To Introduce Ourselves . . .

In this short profile, we'd like to tell you a few important details about La Salle, one of Pennsylvania's oldest colleges and newest universities. Founded in 1863, La Salle College became La Salle University in 1984. We hope these facts will help you to get to know us better and to share our pride in more than a century of educational excellence.

We think La Salle is big enough for efficiency, yet small enough to stimulate personal contacts between students and teachers. The day division enrolls 3200 men and women. The average class size is 20 students; there are no lecture sections numbered in the hundreds and no graduate assistants handling basic courses or marking papers for professors who do not know their own students. Yet the University is large enough to offer 30 different degree programs or special concentrations.

La Salle is one of two institutions of higher education in the East conducted by the Christian Brothers (the other being Manhattan College). The Brothers were founded by St. John Baptist de La Salle in the 17th century. For more than 300 years, the order has been known for dedicated teaching and devotion to students. The spirit of the order carries over to the faculty and administration of La Salle University where diverse backgrounds unite to carry out the objectives of the University in an atmosphere of respect for the individual.

La Salle is located in the northwestern section of Philadelphia on the edge of Germantown, site of a Revolutionary War battle, and one of the oldest neighborhoods in Philadelphia. The campus covers over 85 acres and includes Belfield, a farm that once belonged to the American painter, Charles Willson Peale. Entering the campus from one of the busy city streets around it has been described by one visitor as “entering a place of quiet beauty. It’s hard to believe you’re in a large city.” But Philadelphia is a large city, filled with interesting people, places and events. The University is less than half an hour from center city's museums, concert halls, restaurants, sporting events, and shopping. The school is only two hours away from Pocono Mountain ski resorts or the boardwalks and beaches of the Jersey shore.
Pulitzer Prize-winning playwright Charles Fuller began his career as a writer while still an Evening Division student at La Salle. His screenplay for "A Soldier's Story" won an Academy Award nomination.

Diane Moyer happily displays her Olympic medal. An All-American goalie at La Salle, Diane is now coaching at Yale.

All-American Kathy McGahey played on the U.S. field hockey team and won a medal in the 1984 Olympics.
How good is La Salle academically? A good academic institution has a talented faculty, good students, and a solid library. A glance at the faculty directory at the end of this catalog will demonstrate the sound academic credentials of the La Salle faculty; what it does not show is the dedication to teaching and to students that is the greatest strength of the faculty. About 70% of last year’s freshmen graduated in the top 40% of their high school class, but the statistics don’t show the many students who entered La Salle with less-than-superb high school records and matured and blossomed in the atmosphere of this University. The library has over 286,000 volumes, carefully selected to meet the needs of our students; planning for a new library to house the growing collection is well underway. La Salle is academically sound but not academically smug. A University-wide self-study currently seeks out ways in which we can continue to improve.

Another measure of La Salle’s academic standing: how many of our graduates went on to earn Ph.D.’s? In a study of 200 top liberal arts institutions, La Salle ranked in the top 21% as originating school for doctorates in the arts and humanities and in the upper 30% overall.

What do the Dean of Villanova University Law School, the Dean of the Medical School at the University of Pennsylvania, the president of the Philadelphia Stock Exchange, a Pulitzer Prize-winning author and Academy Award nominee for A Soldier’s Story, the president of IVB Bank, and the Chief of Staff at Massachusetts General Hospital have in common? You guessed it: a La Salle education.

La Salle graduates have distinguished themselves in the nation’s best graduate schools, law schools, and medical schools. In recent years, graduates have won scholarships or assistantships to top-rated graduate schools, including Harvard, Cornell, Stanford, University of Chicago, and Virginia. La Salle men and women have earned law degrees from Berkeley, Catholic University, Cornell, Dickinson, Pennsylvania, Temple, and Villanova, to name but a sampling.
The women's varsity basketball team in action on one of Hayman Hall's three courts.

Curator Caroline Wistar conducts a student study group in the Art Gallery.
Since 1977, according to a 1984 study, 99% of students who were highly recommended by La Salle were offered entry into medical schools, including Jefferson, Hahnemann, Temple, and Medical College of Pennsylvania. La Salle graduates have won 27 Fulbright Scholarships, a Marshall Scholarship, and four Rotary International Gundacker Fellowships for Study Abroad. Since 1965, each graduating class has averaged about 40 graduate and professional school fellowships, scholarships, and assistantships.

Many of these graduates participated in the exceptional Honors Program at La Salle. The Newsletter of the National Collegiate Honors Council described the program as “a very special sort not available to larger, general universities” and took note of a “really extraordinary record in terms of garnering Fulbright, Danforth, and Marshall scholarships.”

Financial aid is a mysterious but necessary concern for most parents. Without it, most students could not attend college today. At La Salle approximately 85% of the students receive some form of financial aid. Here’s something to keep in mind: since aid is calculated on a “needs” formula, a student attending a private college may actually be eligible for more aid than would be available if he or she were attending a public or community college with an apparently lower tuition.

Besides partaking of the Philadelphia cultural scene, La Salle also contributes to it in significant ways. Lita Solis-Cohen, Philadelphia Inquirer art and antiques columnist, has written that La Salle has “the finest college art gallery in the Philadelphia area” and that “one would have to go to Yale, Harvard, or Princeton to find a better one.” The summer Music Theatre, a Philadelphia institution now, has launched many performers’ careers, including actors Pat Cronin, Dennis Cunningham, Charles Murphy, JoAnn Cunningham, and dancer Judith Jamison. Over the years, La Salle has welcomed to the campus as speakers a distinguished array of names, including John F. Kennedy, Katherine Anne Porter, Ralph Ellison, Robert Penn Warren, and many others. La Salle and the University of Pennsylvania are the only two Philadelphia-area institutions to bring the Royal Shakespeare Company’s Actors-in-Residence program to their students and the community.
Hayman Hall physical facilities building seen from the Residence Halls complex.

College Hall Tower and the Lawrence Library, seen from Leonard Quad.

Bellfield Farm, the latest addition to the campus, seen from College Hall.

New wing of the La Salle Union Building, seen from Olney Hall.
Sports devotees generally think of basketball when they hear the name La Salle, and not without reason. La Salle is one of only nine teams to have won both the NCAA and NIT championships in men’s basketball. But basketball is only part of the story. The women’s field hockey team won a national title in 1980; its goalie, Diane Moyer, was a part of the 1984 Olympic championship team. Among other past Olympic participants from La Salle are gold medalist swimmer Joe Verdeur, long jumper Ira Davis, and javelin thrower Al Cantello.

Hayman Hall, one of the East’s finer athletic facilities, features an Olympic-sized pool, basketball, squash and handball courts, an indoor track, an exercise room, and virtually anything else an athletically-minded student might want. Organized intercollegiate and intramural sports afford students opportunities to participate according to their interests, but there is plenty of unorganized, free recreation as well. There are men’s varsity teams in basketball, baseball, swimming, track, cross country, crew, soccer, golf, rifle, tennis, and wrestling. Women’s teams include basketball, crew, cross country, field hockey, volleyball, tennis, swimming, softball, and track. Intramural sports such as touch football, volleyball, basketball, softball, track, swimming, and water polo have men’s, women’s, and mixed teams.

For those with recreational tastes other than or in addition to athletics, the La Salle Union offers films, plays, and concerts in its theater, social events in the ballroom, or a meal or a snack in one of its three dining rooms. Trained administrators in Student Affairs work closely with students and their organizations, sharing ideas and helping students to plan and carry out social and cocurricular activities. They recognize that social life is a vital part of your educational experience at the University, and they will work with you to help you get the most out of your student activities.

Our profile of La Salle is incomplete, but our space and your time are both limited. The Admissions Office cordially invites you to pay us a visit and fill out the rest of the profile through personal experience. Telephone (215) 951-1500 to arrange an appointment.
The People of La Salle

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students, teachers, and administrators—who give the community its character.

St. La Salle's dedication to teaching is the informing spirit of the University, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of conferences with the Counseling Center staff, as well as representatives from Financial Aid, Resident Life, Placement and other areas of the University. During the program you will have a personal interview with a counselor to discuss your educational and career plans and will meet with an academic adviser who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators anxious to be of help. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are uncertain of your major or of your career plans, the staff is happy to assist you in making a sound choice based on your interests and capabilities. The center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs and alcohol, selective service and a variety of occupations. Besides offering individual counseling, the Center also conducts group sessions on a variety of topics of concern to students. Management of anxiety—particularly test anxiety—assertiveness training, overcoming shyness, improvement of study skills, and group decision making are but a few of the topics that have been the focus of recent group programs. The sessions have proven popular and effective ways of aiding personal growth.

Being part of a church-related college means you are also part of a community in which people care about one another. The Campus Ministry plays an important role in maintaining that sense of community by stimulating student participation in planning and celebrating the liturgy, by encouraging Christian commitment to social action, and by generally making you more aware of what it means to care for God, yourself, and others.

Nor is your physical well-being neglected while you are on campus. A physician
is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part-time or summer jobs related to their career goals.

All in all, you will find the people at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.
Living at La Salle

When you become part of the community of resident students, you will have greater opportunity for participation in the total collegiate experience. Extracurricular campus life and student activities abound for residents, who also benefit greatly from the convenience and access to academic facilities, student services, and co-curricular programs.

The community of residents is diverse, reflecting the range of backgrounds, personalities, and interests of La Salle’s student body. Each floor and building takes on a character of its own, and the give-and-take of daily life in the dorms promotes respect and concern for others, good citizenship, and responsible behavior. The halls contain a mixed group of students ranging from freshmen to seniors and are small enough to encourage a spirit of friendship on the floors.

The Resident Life Staff and the student-run Residence Council sponsor socials, movies, coffee houses, guest speakers, trips, special events (Octoberfest, Spring Fling) and recreational activities. Many University clubs and organizations also sponsor a variety of activities in the residence halls and apartments. When combined with the wealth of cultural, historic, entertainment, sports and educational resources available in the city of Philadelphia, residence life affords students the best combination of a collegiate and metropolitan environment.

Life in a university residence hall is a unique experience not to be duplicated elsewhere. Living with friends—studying, dining, socializing together—provides you with chances to learn about yourself, refine your ability to get along with and learn from others, and formulate goals and values which are critical for personal success after graduation. At La Salle, many things—staff, students, facilities, programs and location—blend to offer residents a convenient, meaningful, and rewarding living experience.
The portrait of Dr. Roland Holroyd presides over the lobby of the Holroyd Science Center. Dr. Holroyd taught Biology at La Salle for over 50 years. He died in 1984.

The statue of St. John Baptist De La Salle overlooks the Olney Avenue entrance to the campus.
Our History

La Selle University was chartered as La Salle College by the Commonwealth of Pennsylvania in 1863. Its founders were a group of Christian Brothers, some diocesan priests, and several Catholic laymen. It was located at St. Michael's, one of the oldest parishes in Philadelphia. As the new college grew, it moved first to a center city site at Juniper and Filbert Streets and then to the old Bouvier mansion at 1240 North Broad Street.

La Salle moved to its present location at 20th Street and Olney Avenue in 1929, purchasing part of historic Belfield Farm, once the home of American painter Charles Willson Peale. No sooner had work begun on the collegiate Gothic towers of College Hall than the country plunged into the greatest depression it has ever known. Somehow La Salle College survived the financial doldrums of the 1930’s only to be faced by the greater threat posed by the depletion of the all-male student body during World War II. At its lowest enrollment the College had only 90 students.

After the war’s end, a tremendous influx of veterans created an entirely new challenge of overcrowding. La Salle began an era of expansion that has continued to the present day. In 1970 La Salle ended its century-old tradition as an all-male institution and accepted its first women students. Today women make up 45% of the day school enrollment.

Building and expansion has continued at a rapid pace ever since 1946. A significant resident population of 1250 students is housed on campus. The most recent additions to the buildings on campus include a new wing of the College Union and a 350-bed residence hall and dining room facility. The acquisition of the farm at Belfield in 1984 added significantly to the campus, not only in acreage but also in beauty and historical tradition.

The physical growth on campus has been matched by the vitality and innovation of academic and student affairs programs. The curriculum is being revised after a careful faculty study. New majors have been added in Computer Science, Communication Arts, and Public Administration, and new concentrations within departments enable students to follow programs in health care administration, international studies, work psychology, urban studies and women’s studies. A special honors concentration in business was introduced. Financial aid to students has increased dramatically, as have the activities and services of the Student Affairs area.

In recognition of the growth and diversity of La Salle and the strength of its educational offerings, the Governor of the Commonwealth of Pennsylvania bestowed the status of university on La Salle in 1984, making one of the state’s oldest colleges its newest university. Thus a new chapter in the history of La Salle has begun.
The history of La Salle since World War II rested mainly in the hands of these four presidents, all still active on the campus. From left to right, Brother Daniel Burke, Brother Gregorian Paul, Brother Daniel Bemian, and current president, Brother Patrick Ellis.
Our Aims and Traditions

Though often mistakenly connected with the French explorer, the name of the University commemorates the 17th-century French educator and founder of the Christian Brothers, John Baptist de La Salle. The traditions of this saintly, innovative educator have been continued by the Brothers, a non-clerical order of religious who have been teaching in the United States since 1845. Under the auspices of the Brothers, the University strives to continue such La Sallian traditions as devotion to excellence in teaching, concern for ultimate values and for the individual values of its students.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the University is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the University urges the student to confront the ultimate questions of human experience: who he is; where his destiny lies; how he is to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen esthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the University encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

Although undergraduate education remains its primary purpose, La Salle also offers Master’s programs in selected areas of specialization. For the most part, these programs focus on professional goals through advanced study and through application of theoretical knowledge in the fields represented.

As a private Catholic university, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic way, and investigating what interrelations, these subjects may have. The community also engages in programs in which the students, personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the University is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.
Admissions

If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and the recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. La Salle does not discriminate against any applicant for admission because of race, color, creed, sex, national origin or physical handicap. Admission is based solely upon an applicant’s qualification and ability to meet the established admission requirements.

APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle University.
2. A transcript of three-year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades. An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour. Phone 215-951-1500.

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement. Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the University by the high school. Completed applications and the $20.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a $100.00 deposit, usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

ADMISSION REQUIREMENTS

HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work including the following:

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<th>Subject</th>
<th>Units</th>
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<tr>
<td>English</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics:</td>
<td></td>
</tr>
<tr>
<td>Algebra &amp; Plane Geometry or two years of Algebra</td>
<td>2 units</td>
</tr>
<tr>
<td>History</td>
<td>1 unit</td>
</tr>
<tr>
<td>Natural Science</td>
<td>1 unit</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2 units</td>
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The remaining six units may be distributed as follows:

1. Applicants for the Liberal Arts program may present six other units in academic subjects.
2. Applicants for the Science, Mathematics or Computer Science programs may present six other units in academic subjects but including an additional one and one-half units in mathematics.

3. Applicants for the School of Business Administration may present six academic or commercial units, excluding typing.

LANGUAGE REQUIREMENTS
All applicants should present two units in the same foreign language.

ENTRANCE EXAMINATIONS
Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEEB— The Educational Testing Service
Box 592, Princeton, NJ 08540
or
Box 1025, Berkeley, Calif. 94701

OR

ACT— The American College Testing Program
Box 451

Iowa City, Iowa 52240

La Salle College’s identification number: CEEB-2363; ACT-3608

ACHIEVEMENT TESTS
The CEEB Achievement Tests are not required. These tests are helpful to departmental advisers, however, in determining placement in certain English, mathematics, and foreign language courses. They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

MEDICAL RECORDS
All accepted students are required to have a report of medical history on file in the Dispensary prior to their attendance at the University.

FOREIGN STUDENT ADMISSIONS
La Salle University is authorized by the Department of Justice, Immigration and Naturalization Service to issue Certificates of Eligibility (Form I-20) for non-immigrant “F-1” student status, to foreign students who meet admissions requirements. Preliminary application materials are available from the Coordinator of Foreign Admissions, La Salle University, Philadelphia, PA 19141.

ADVANCED PLACEMENT
La Salle University participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the University agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses
taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement
- 3 = Same, on recommendation of departmental head
- 2 = Advanced placement only on recommendation
- 1 = No advanced placement or advanced credit.

La Salle University also participates in the College-Level Examination Program of the College Entrance Examination Board. Students who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, NJ 08540.

TRANSFER STUDENTS

La Salle University welcomes qualified transfer students to the fall and spring terms and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle University should submit transcripts of their college records as soon after applying for admission as is possible. All except A.A. and A.S. degree holders are required to submit their high school transcripts also. Transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 30 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. Students applying for transfer from a fully accredited college or university will be considered for admission if their grade point average is 2.25 (on a 4.00 scale), but a 2.50 or higher is preferred. Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each application is based mainly on the grade point average earned at the college or university the student attended before applying to La Salle.

Credit will be allowed for courses completed with grades above the lowest passing grade given at the institution from which the applicant is transferring. Normally, 70 credits may be accepted for transfer.

Transfer students may be required to make up certain courses which belong to the sequence required in the program of studies for which they are applying.

Interested prospective students should direct their inquiries to the Assistant Director of Admissions for Transfer Students.

ACADEMIC DISCOVERY PROGRAM (ADP)

The Academic Discovery Program (Pennsylvania ACT 101) is a special program which provides free counseling and tutorial support services for students whose records indicate that they could benefit from extra academic assistance and who also meet certain criteria of financial need. The ADP helps students establish good study habits, clear career goals, and the ability to compete successfully in the academic setting. Members of the ADP participate in a free pre-college summer program before their freshman year and in assigned counseling and tutorial sessions along with their regular courses during the academic year. As much as possible, each student's program is tailored to his or her individual needs. To obtain application materials, write or call the Day Admissions Office, 215-951-1500. For further information regarding ADP or the Community Academic Opportunity Program Grant or call the Academic Discovery Program Office, 215-951-1084.
ADMISSIONS FOR VETERANS

All veterans coming directly from the service with proof of a high school diploma or its equivalent are eligible to enroll as students at La Salle University. For answers to specific questions, veterans may telephone the Registrar’s Office, 215-951-1020.

CONTINUING EDUCATION FOR WOMEN

The Continuing Education for Women (CEW) program at La Salle is designed to ease the transition for adult women who wish to begin or resume their college education. Women may enter this program in the Day or Evening Division whether they are interested in taking single courses or pursuing a degree. Any woman 24 years or older who has a high school diploma or equivalent is eligible to apply. The program includes academic advising, an orientation day, study skills workshops, support groups, individual counseling, referral to campus day care facilities, and special get-togethers for CEW students. CEW encourages potential students to have an interview with a staff counselor to discuss questions she may have about her educational and career goals, and to clarify information about La Salle courses and schedules. To arrange an interview or to apply for admission through the program, visit the CEW office, located on the first floor of College Hall or telephone 215-951-1060.

BUILDING BLOCKS: CHILD DEVELOPMENT CENTER

Established in 1973 by a group of La Salle faculty, students and staff, Building Blocks is a privately incorporated day care center housed on La Salle’s campus. Serving the immediate La Salle community and our neighbors beyond the campus, the center cares for some 50 children whose ages range from 18 months to 6 years. The trained professionals at Building Blocks also supervise work study students, volunteers, and students who fulfill certain course assignments through projects at the center. Interested parents should telephone the Director at 951-1573.

ACCOMMODATIONS FOR RESIDENTS

The residence facilities accommodate approximately 1200 students and consist of 10 coeducational halls and two apartment complexes. The dormitory-style residence halls contain single and double rooms which share one bathroom on each floor of men or women. Quad rooms in St. Katherine Hall consist of adjoining double rooms which share a bathroom. One- or two-bedroom garden apartments are available to upper division students.

An application for housing and the required security deposit should be submitted when confirming acceptance. The Resident Life Office will then inform the student of the application’s status. If a space is reserved, and the student decides after July 15 not to live on campus, the entire security deposit is forfeited.

The residence halls provide complete living, learning, and recreation facilities. Each room is completely furnished except for bed linens. There are lounges, quiet study areas, recreation areas, and coin-operated laundries. The Campus Store is a convenient shopping center for books, stationery, and personal supplies. Residents are permitted to have cars on campus. Detailed information on resident life and facilities can be found in You’ve Got a Lot to Live: The Resident Student Survival Guide, published by the Resident Life Office.

The resident life administration is headed by a professionally trained staff. A Resident Assistant resides in each living unit and acts as a paraprofessional counselor, referral agent, administrator, and activity programmer. The graduate and undergraduate staff receive room and board compensation and are an outgoing and diversified group who
are interested in working with students to make college life in residence an enjoyable and educational experience.

Both the residence and dining facilities are closed during the Thanksgiving, Christmas and Spring recesses. For further information about resident life, contact the Resident Life Office, North Halls Complex, Telephone 215-951-1550.

THE FOOD SERVICE

The Food Service offers a wide variety of food items in its two cafeterias and the snack bar. A charge payment system allows a choice of meal plans for big appetites or small ones. Besides the varied array of breakfast, lunch, and dinner choices, there is also fast food and take-out service in the snack bar. Medically-required diets can be arranged through the Food Service Office (951-1388).

OFF-CAMPUS HOUSING

In order to assist members of La Salle in locating available housing in the surrounding community, help is available through the Off-Campus Housing Service. The Service provides: off-campus housing referral listings; roommate referral lists; general off-campus rental information (tenant-landlord relations, roommate selection, consumer protection, neighborhood business and services, etc.).

La Salle University does not inspect available accommodations or screen prospective landlords and tenants. Any questions pertaining to off-campus housing should be directed to Off-Campus Housing, Resident Life Office, North Halls Complex, Telephone (215) 951-1550.

COURSE SELECTION

All accepted students will receive a course selection form in the mail in early April. At this time they may indicate their choice of courses for both the fall and spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.

STUDENT HEALTH SERVICES

The La Salle University Dispensary provides medical diagnosis and treatment of minor illnesses and injuries and is available to the student body for initial care, first aid, and health information. Located in the North Complex of the Residence Halls on Olney Avenue, directly across from Hayman Hall, it is open Monday through Friday. The Dispensary is staffed by a registered nurse who serves as the Director. University physicians see students in the Staff Clinic of Germantown Hospital five days a week and a physician is available in the Dispensary weekly. The Clinic is located on the first floor of the hospital and referrals to the clinic are made by the nurse from the Dispensary. All students are required to complete the Student Health Services-Health Questionnaire prior to their attendance at the University.

Both medical and dental emergency services have been arranged with local hospitals, and a complete list of private physicians of every medical speciality is also available. Students are responsible for the costs of these treatments.

Health insurance is strongly advised for all students, especially those in residence, and is required for all international students. Students who are under 23 years of age generally can be covered under their own family Blue Cross (Hospital Insurance) and Blue Shield (Medical-Surgical Insurance) program while enrolled as full-time college students. Information concerning special Students' Blue Cross and Blue Shield plans for those not covered by family plans is available.
Expenses

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic tuition</td>
<td>$2,795.00</td>
</tr>
<tr>
<td>Additional for science majors (biology, chemistry, physics, geology)</td>
<td>$166.00</td>
</tr>
<tr>
<td>Tuition— for courses taken in excess of or less than a normal schedule— per semester hour</td>
<td>$200.00</td>
</tr>
<tr>
<td>Science Laboratory Fee— charged non-science majors electing to roster certain designated science courses— per course</td>
<td>$45.00</td>
</tr>
<tr>
<td>Communications Fee— charged for certain designated courses— per course</td>
<td>$45.00</td>
</tr>
<tr>
<td>Computer Fee— charged for certain designated courses— per course</td>
<td>$60.00</td>
</tr>
<tr>
<td>Counseling and Orientation Fee— charged to entering students in their first semester only</td>
<td>$50.00</td>
</tr>
<tr>
<td>Administrative Fee— charged to students who elect to receive credit through authorized standardized testing procedures or approved in-house tests— per course</td>
<td>$45.00</td>
</tr>
<tr>
<td>Registration fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Housing Cost (per student)</td>
<td></td>
</tr>
<tr>
<td>Residence Halls¹</td>
<td></td>
</tr>
<tr>
<td>Double Room Rent</td>
<td>$875.00</td>
</tr>
<tr>
<td>Single Room Rent</td>
<td>$1,025.00</td>
</tr>
<tr>
<td>Quad Room Rent</td>
<td>$950.00</td>
</tr>
<tr>
<td>Residence Hall Orientation Fee— charged in first semester only</td>
<td>$25.00</td>
</tr>
<tr>
<td>Apartment Rent</td>
<td>$1,025.00</td>
</tr>
</tbody>
</table>

Meal Plans:
- Plan A—provides the average eater with the equivalent of lunch and dinner for five days a week
  - $660.00
- Plan B—provides the average eater with the equivalent of breakfast, lunch and dinner for five days a week
  - $810.00
- Plan C—provides the average eater with the equivalent of breakfast, lunch and dinner Monday through Friday and brunch and dinner on Saturday and Sunday
  - $1,010.00

¹Students living in the residence halls are required to participate in one of the meal plans.

In view of rising costs, La Salle University must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

**DEFERRED PAYMENT**

If you do not have the entire amount you need to register for the Fall or Spring semester, you can choose the Deferred Payment Plan, which allows you to spread out your payments in three monthly installments throughout the semester. For a $15.00 application fee and a small finance charge, you can defer payment on as much as 75% of your educational expenses (or as little as $250.00, if that’s all you need.) To find out more information or to obtain your application, contact the Student Loan Office on the Lower Level of College Hall. (951-1054).

**MONTHLY PAYMENT PLAN**

In cooperation with Academic Management Services, La Salle offers a monthly payment plan designed to relieve the pressure of "lump-sum" payments each semester. This plan allows you to spread the cost over a period of months without borrowing money or paying interest charges. Automatic life insurance is provided at no charge. The enrollment fee is $40 a year for each enrolled student, there are no other charges. There is no down payment if you enroll in the plan before April 25. Please contact the Bursar’s Office if you would like to receive an explanatory brochure and application.

**SEMESTER INVOICES**

Full payment of semester invoices is due in mid-August for the fall term and in
mid-December for the spring term. Students who have not paid in full within the prescribed time are not registered nor are they included on official class lists. MasterCard and VISA may be used for payment of invoices.

GRADUATION FEE
A graduation fee of $40.00 is due and payable in the spring semester in which the degree will be awarded. The University cannot be responsible for the inclusion in the graduation program of any candidate who pays fees after the deadline set at the billing date. The graduation fee covers the Graduate-Faculty Reception, baccalaureate services, the cost of the diploma, the use of cap and gown, and all other expenses incidental to the commencement exercises. No candidate may be recommended for a degree, diploma, or certificate until the graduation fee and all other financial obligations have been paid.

REFUND OF TUITION
Under certain circumstances, students who withdraw may receive a partial refund of tuition. There are no exceptions to the following terms and conditions.

Fall and Spring Undergraduate Semesters

<table>
<thead>
<tr>
<th>Time of Withdrawal</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before first day of class</td>
<td>100%</td>
</tr>
<tr>
<td>During first week</td>
<td>80</td>
</tr>
<tr>
<td>During second week</td>
<td>60</td>
</tr>
<tr>
<td>During third week</td>
<td>40</td>
</tr>
<tr>
<td>During fourth week</td>
<td>20</td>
</tr>
<tr>
<td>After fourth week</td>
<td>None</td>
</tr>
</tbody>
</table>

For the purpose of refund, the student shall be considered to be in continuous attendance up to and including the date of submission of proper notice of withdrawal. The notice of withdrawal must be addressed to the Dean of the particular school. Ceasing to attend or giving notice to an instructor does not constitute proper notice. The allowed percentage of refund shall be based upon the official withdrawal date which shall be determined by the date the notice of withdrawal is received by the Dean, or the postmark, if mailed.

For the purpose of refund computation, a week shall be defined as the period of seven successive days beginning with the official University opening of classes and NOT the first day in actual attendance by a particular student.

In those instances where a student's educational expenses were satisfied in whole or in part by Title IV Program Funds, and a refund of these educational expenses is authorized, that refund will be proportioned in accordance with U.S. Department of Education regulations governing refunds and cash disbursements made directly to students. Under those regulations, priority is given to the return of funds to Title IV Assistance Programs in the following order: State Grant Programs, SEOG, NDSL, Pell Grants, Guaranteed Student Loans. Students should be aware that the regulations may prevent the refund of any personal funds used for payment of tuition and fees. In instances where a student has received a cash disbursement prior to the recording of his or her withdrawal, the student may be required to return those funds to the University.

RESIDENCE HALL REFUNDS

Meal Plan
If a student leaves the Residence Halls, a pro-rata refund will be made for the unused portion of his or her meal plan.

Room Rent
Regardless of the reason for vacating, refunds will not be made for unused room rent.
Financial Aid

No student is denied admission because of financial need. The financial aid programs at La Salle provide opportunities for scholarships, grants, loans, and student employment. Eligible applicants for financial aid will be considered for any form or combination of forms of assistance.

Since the primary responsibility for college expenses rests with the parents and student, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. Regardless of state of residency, incoming students seeking assistance are required to submit the application for Pennsylvania State Grant and Federal Student Aid before February 15. Forms are available at the guidance office of the secondary school or from La Salle University. Students are also expected to apply to appropriate state grant programs.

CHRISTIAN BROTHERS' SCHOLARSHIPS

La Salle University offers fifteen full tuition scholarships to students graduating from all Catholic high schools in the Philadelphia and Camden dioceses and from high schools conducted by the Christian Brothers of the Baltimore Province. Selection is based on academic excellence and potential for leadership in the La Salle community. Applications are restricted to students nominated by their high school principal. Scholarship application forms will be sent directly to nominees designated by the principals. All completed scholarship materials must be received by the appropriate office at La Salle no later than February 1.

COMPETITIVE SCHOLARSHIPS

Twenty-seven scholarships providing full tuition are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. This scholarship competition is open to high school seniors who have scored approximately 1300 in the College Board Scholastic Aptitude Test and who have a class rank in the top 10 or top 10% of the high school graduating class. Application materials may be obtained by contacting the Director of the Honors Program. The completed scholarship materials must be received by the appropriate office at La Salle no later than February 1.

NATIONAL MERIT GRANTS AND SCHOLARSHIPS

Students selected as National Merit Finalists, semi-finalists, and letter-of-commendation recipients are eligible for grants through the University. Finalists qualify for $800 per academic year, semi-finalists receive $600 per academic year, and commendation recipients are granted $300 per year. These are awarded to incoming freshmen and can be renewed yearly pending completion of the application for Pennsylvania State Grant and Federal Student Aid.

La Salle University offers two National Merit Scholarships annually ranging from $300 to $2000 per academic year. Students are selected by National Merit Scholarship Corporation from those qualifying in the College Boards and indicating La Salle University as the first choice institution. Nominees should complete the application for Pennsylvania State Grant and Federal Student Aid.

CHRISTIAN BROTHERS' GRANTS

La Salle University offers a limited number of partial grants to students who have
established exceptional financial need through a needs analysis system, e.g. the application for Pennsylvania State Grant and Federal Student Aid. These partial grants can be renewed yearly pending completion of the needs analysis form.

ATHLETIC GRANTS
La Salle University offers grants to men and women excelling in athletics. Contact with the La Salle University Athletic Department is made by the student’s high school coach. These grants can be maintained through the four years of study at La Salle University.

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)
The Community Academic Opportunity Program is a grant available to students who have been accepted into the Academic Discovery Program. It is designed to give financial assistance to economically and educationally disadvantaged minority students from the surrounding neighborhoods; specifically, a student must reside in zip code areas 19119, 19120, 19126, 19138, 19141, 19144 or 19150.

The basic CAOP grant includes $1500 per year towards the cost of tuition and up to $150 per year for books; CAOP students must also apply for PHEAA and Pell through the filing of the application for Pennsylvania State Grant and Federal Student Aid.

Further information and application materials are available from high school counselors or the Admissions Office of La Salle University.

PELL GRANTS
The Pell program is a federally administered program available to needy students taking no fewer than six credits per term. Students may receive from $250 to $1900 per academic year. Applications are available from your high school guidance counselor or the La Salle Financial Aid Office. Eligibility is determined by the federal government and notification is sent directly to students. In addition to financial need, a student must make normal progress toward a degree to retain eligibility.

PENNSYLVANIA HIGHER EDUCATION GRANTS (PHEAA) AND OTHER STATE GRANT PROGRAMS
Pennsylvania state grants are administered by Pennsylvania Higher Education Assistance Agency and range from $100 to $1500. Eligible students must demonstrate financial need, maintain Pennsylvania residency, be enrolled on a full-time basis, and complete a minimum of twenty-four credits per year. Applications are available from high school guidance counselors or the Financial Aid Office.

Other states in addition to Pennsylvania have scholarship programs for their residents. Information and applications would be available from the respective State Boards of Education.

NATIONAL DIRECT STUDENT LOANS
The NDSL provides needy students with long-term, low interest loans for educational expenses. The University determines the amount of the loan to be offered within certain federal guidelines. Interest at the rate of 5% per year on the unpaid balance begins to accrue six months after the student ceases at least half-time study. The loan repayment period may be as long as ten years, depending upon the total amount borrowed. Students must make normal progress toward a degree to maintain eligibility. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid to determine eligibility.
COLLEGE WORK STUDY PROGRAM
The College Work Study program provides needy students with access to part-time jobs in both on- and off-campus locations. The funds earned do not provide direct tuition relief, but are intended to help meet incidental expenses encountered by students. Students are paid on a weekly basis for the number of hours worked. The total amount that may be earned through the work program is determined by students' needs and availability of funds at the University. Employment is limited to an average of twenty hours per week while school is in session. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to demonstrating need, students must make normal progress toward a degree to maintain eligibility.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)
The SEOG program is a federally funded college administered program available to needy students in amounts up to $2000 per academic year. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to financial need, students must make normal progress toward a degree to retain eligibility.

STATE GUARANTEED LOANS (SGL)
This loan program is administered by state governments with the assistance of participating lending institutions. Students taking at least six credits may apply to the program and receive as much as $2500 per academic year, at the rate of 8% interest per year. Interest will begin to accrue six months after the student ceases at least half-time enrollment. Students should contact home state bank systems regarding program participation. Applications should be submitted as early as possible to ensure timely receipt of funds; processing may take as long as eight weeks.

PARENT LOANS FOR UNDERGRADUATE STUDENTS (PLUS)
This program allows parents to borrow a maximum of $3000 an academic year for each dependent undergraduate student. The interest rate is 12.5% and repayment begins within 60 days after the disbursement of funds. Independent undergraduate students may also borrow from the PLUS program. However, these students may not borrow more than a combined total of $2500 from both the PLUS and Guaranteed Student Loan programs. Contact your local banks regarding program participation.

ARMY ROTC SCHOLARSHIPS
Army ROTC scholarships are offered for four, three, and two years. The four-year scholarships are awarded on a worldwide competitive basis to U.S. citizens who will be entering college as freshmen. The three- and two-year scholarships are awarded competitively to students who are enrolled or are eligible for advanced placement in ROTC, including those who are cross-enrolled.

Students who attend the Basic Camp of the two-year program may also compete for two-year scholarships.

The scholarships pay for tuition, textbooks, lab fees, and provide a living allowance of up to $1000 each year the scholarship is in effect. The value of the scholarship depends on the tuition and other educational costs of the university or college attended.

Contact the Department of Military Science, 215-951-1365/1366, for further information.
PRIVATE SCHOLARSHIPS

There are many special assistance programs that offer scholarships, grants, and loans to students. You may qualify for one of these programs through religious affiliation, ethnic heritage, parents’ employers, organizational memberships, or a special talent. Programs through state and/or federal agencies—e.g., Veterans’ Bureau, Bureau of Vocation Rehabilitation and Social Security Bureau—may also offer financial aid to qualified students. Knowledge of these programs is available through books and pamphlets on scholarships and financial aid in your school or local library or in the Financial Aid Office. Information on private scholarships frequently received by La Salle students may be obtained from the following sources:

Philadelphia City Scholarship Program, 516 City Hall Annex, Philadelphia, PA 19107

Hero Scholarship, City of Philadelphia, Room 490, City Hall, Philadelphia, PA 19107

J. Wood Platt Caddie Scholarship, % Cecil J. Barnett, Esq., 20 Bala Avenue, Bala-Cynwyd, PA 19004

LSC Alumni Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Lindback Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Bishop Corrigan Memorial Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Robert L. Dean Writing Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Berger-Wallace Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Merrill Trust Fund, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

W. W. Smith Charitable Trust Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Army ROTC Scholarships, P.O. Box 7000, Larchmont, NY 10538

Air Force ROTC Scholarships, AFROTC Det 750, St. Joseph’s University, Philadelphia, PA 19131

APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE

A candidate who desires financial assistance must submit the application for Pennsylvania State Grant and Federal Student Aid no later than February 15. Applications received after that date will be considered only if there are funds available. An Institutional Data Form must also be submitted directly to the Financial Aid Office. These are available from the Admissions Office. Financial aid awards will be announced approximately six weeks after acceptance into the University.

Most types of financial aid require annual application. All applications for renewal consideration must be filed by March 15.

La Salle University’s financial aid programs are organized to help the able student who needs financial assistance. As long as there is continuing evidence of academic progress as well as financial need, the University will make every effort to assist the student.
Academic Programs and Procedures

REGISTRATION
During an announced pre-registration period in the spring term, students meet with their chairman or adviser to plan a roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar’s Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses a course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If students cannot register during this period because of circumstances beyond their control, they may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of $10.00.

PROGRAM OF STUDIES
The program of studies prescribed by the student’s adviser and approved by the dean of the school in which the student is enrolled is his or her official roster of courses.

It is the student’s responsibility to see that all the requirements of this program are fulfilled. He or she should have in writing from the dean any exceptions to the prescribed program which may be granted.

Students may be permitted to change from one program to another, or from one area of instruction to another, only when their previous record indicates that they may profit by such a change. In any change of this type the student must have the written permission of the chairman and the dean of the school. This change may entail taking approved summer courses or an additional semester in college. In no case may students who transfer receive promotion or a degree sooner than they would have received it had they not transferred. No degree may be received less than one year after change of curriculum.

CLASSIFICATION OF STUDENTS
A full-time student carries a minimum of twelve semester credit hours; many carry an average of fifteen semester credit hours. A student’s program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours juniors; and those with more than 84 credit hours are classified as seniors.

Part-time students carry a roster of less than twelve hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he has met all the requirements for admission and candidacy for a
degree provided that the credits thus earned be applicable to his program of studies for the degree. A special student cannot hold a scholarship nor take part in extracurricular activities.

**URBAN STUDIES**

Students may design a minor concentration by choosing distribution requirements and electives in Urban Studies. The Economics Department supervises this program but it is multi-discipline in all essentials. Economics, Political Science and Sociology faculty co-teach most of the courses and professors from an even wider group of disciplines serve in close advisory capacities.

After five introductory courses students complete their Urban Studies concentration with a senior semester of integrated seminars and field work. Placements and projects are chosen to complement major programs. At all levels students and faculty work closely with the staff of the La Salle Urban Studies and Community Services Center.

**INTERNATIONAL STUDIES CONCENTRATION**

Any student, regardless of his or her major field, can pursue as an interest the Concentration in International Studies. This multi-discipline program allows the student to select courses offered by many departments.

The Concentration in International Studies requires a total of seven courses. At least four of these can also fulfill other college requirements.

Economics, Political Science, and Business students will have to use only two or three electives in order to complete the program. Other students will have to devote about four elective courses for this purpose.

Students planning to spend one or two semesters abroad will probably be able to complete a portion of the program there and should meet with the Director before departing.

Interested students should see Dr. Joshua Buch, the Program Director, College Hall 314, Ext. 1030.

**WOMEN’S STUDIES**

By putting women and sex roles at the center of study, our interdisciplinary women’s studies program provides balance to the traditional curriculum that so frequently ignores women or distorts their contribution to society. Students of any major may design a concentration by choosing six distribution requirements and electives from the Women’s Studies offerings in such disciplines as English and communication arts, history, sociology, religion, philosophy, psychology, and foreign languages. An optional field internship may constitute one of the six required courses.

Interested women and men should see Dr. Caryn McTighe Musil, Coordinator, Olney 347, ext. 1610.

**DUAL MAJORS**

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After developing the program in consultation with both departments, the student must obtain approvals of both chairmen and of the dean. Arrangements should normally be completed during the spring semester of the sophomore year.
HONORS PROGRAM

The Honors Program is designed to provide the most academically talented students with an enriched program of general studies that will be both challenging and stimulating. The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. Students who prove themselves able and interested continue with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors.

In the last two years, the honors student may, with the approval of the chairman, substitute an independent study course in each semester for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. Students who complete the requirements of the Honors Program are graduated with General University Honors. Further information on the program is available from the Director of the Honors Program.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program permits students to integrate classroom theory with practical experience by alternating specific periods of attendance at the College with specific periods of employment.

A student may begin a coop program as early as the sophomore year and still complete requirements for graduation within four and a half years. Cooperative education can add relevance to a student’s academic program, furnish practical experience, afford an understanding of human relationships outside of one’s peer group, and provide realistic vocational information as well as financial assistance.

Students interested in learning more about this program should see the Director of Cooperative Education in the Career Planning and Placement Office.

LA SALLE IN EUROPE—FRIBOURG, SWITZERLAND

Recognizing the advantages of travel in other countries and first-hand contact with other cultures, La Salle University offers a sophomore and junior year program which provides its students a first-hand opportunity to study at the University of Fribourg in Switzerland. Nestled in the valley of the Sarine, Fribourg is one of the most beautiful cities in one of the most beautiful countries in the world.

A unique feature of the University of Fribourg is its official bi-lingual character; courses are offered in both French and German, often the same course in either language. In conjunction with Providence College, La Salle University forms part of the American College Program of the University of Fribourg.

In most instances, students will be housed in private homes or apartments located near the university. The rooms are chosen by the resident director of the program. Students accepted into the program attend an orientation course during the semester prior to departure. Those students deficient in French or German will be permitted to enroll in special courses during the summer before departure. A 2.5 Grade Point Average is required. Interested students should see Dr. Leonard Brownstein, Campus Director of the La Salle in Europe program.

SPANISH LANGUAGE PROGRAM—UNIVERSITY OF MADRID

La Salle University is a member of the Academic Year Abroad Foundation which is affiliated with the University of Madrid, Spain. This program is for one semester or a full year. Courses are offered in the language, literature, history and art of Spain. In addition
there is a special program for business students. Participants are placed with Spanish families. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of Spanish society and institutions through constant and direct exposure to the nation's history, art, and contemporary life.
3. To prepare the future teacher of Spanish for the role which he will play in the classroom situation.

Interested students should see Dr. Leonard Brownstein, Professor of Spanish.

NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

URBAN STUDIES AND COMMUNITY SERVICES CENTER

The Urban Studies Center seeks to involve the resources of the College in the larger urban community. Its major programs are: (1) the Communiversity—non-credit adult education designed for area residents, (2) technical assistance to neighborhood groups in grant and program development, and (3) community organization services focused on the needs of the low-income, multi-racial and ethnic communities bordering the College. The Center also draws upon the experience of neighborhood leaders to enrich its programs and La Salle's Urban Studies curriculum. Students and faculty with urban research and social service interests are encouraged to visit the Center, located at the corner of Wister and Clarkson, or to call 215-951-1188.

COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

Students interested in preparing for elementary education may take part in a special cooperative program with Chestnut Hill College, which may be arranged in consultation with the Dean of the School of Arts and Sciences.

SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. A student may use these courses to enrich his academic program, to lighten his regular schedule, to make up failures, or, in some instances, to accelerate his progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.
AR

NY RESER

VE OFFICERS’ TRAINING CORPS PROGRAM (ROTC)

Students get leadership and management training in the military science program—and they graduate with an officer’s commission as well as a degree in their chosen academic major. Successful completion of the advanced ROTC program results in second lieutenant status in the active or reserve components of the U.S. Army.

Students (male and female) may participate in the ROTC program at La Salle by so specifying on their course selection form. No service obligation is incurred during the first two years of the program. Military Science 100 and 200 level courses are tuition free to full-time students. See course descriptions, listed under Military Science.

Students who successfully complete both MSC 100 and 200 level courses may be chosen for the advanced course. Advanced course and ROTC Scholarship recipients also earn a monthly stipend of $100.00. (See Financial Aid section for more information on the ROTC Scholarship Program.)

Students transferring to La Salle, or current students who have not previously participated in ROTC, may take advantage of the special two-year program. They should make arrangements through the Department of Military Science as soon as possible.

Additional information is available from the Department of Military Science, La Salle University, Philadelphia, PA 19141, 215-951-1365.

AIR FORCE RESERVE OFFICERS’ TRAINING CORPS

La Salle students are eligible to participate in Air Force Reserve Officers’ Training Corps (AFROTC) through a cross-enrollment agreement with St. Joseph’s University. All Aerospace Studies courses will be held on the St. Joseph’s campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for a baccalaureate degree.

For further information on the cross-enrollment program, scholarships, and career opportunities, write or telephone the Professor of Aerospace Studies, AFROTC Det 750, St. Joseph’s University, Philadelphia, PA 19131, 215-879-7311.

ATTENDANCE POLICY

Students are expected to attend classes regularly. Absences are permitted to provide for conditions beyond the control of the student. Ordinarily, these would be equal to twice the semester hours scheduled for the course; for example, six absences in a three-hour course. Attendance is noted from the first regular class meeting regardless of the time of registration.

EXAMINATIONS

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination as scheduled may take a delayed examination.

GRADES

The following system of grades is used in measuring the quality of student achievement.

A Superior            C Average            F Failure            W Withdrawal            U Unsatisfactory  
B Very Good           D Passable           I Incomplete         S Satisfactory         X Audit
In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

Incomplete: The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F’s. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

Withdrawal: The W grade is assigned when a student withdraws from a course with the dean’s permission before its completion. Ordinarily permission for withdrawal is not granted after mid-term examinations.

Satisfactory or Unsatisfactory: Students may take free electives under a pass/fail option. If they indicate this option to the Registrar within three weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of this option is to encourage choice of challenging electives, including those outside the student’s major field.

Audit. The X grade is assigned for courses audited. After obtaining permission from the course instructor and the dean, a student wishing to audit a course may sign up in the appropriate dean’s office before the first day of class.

Courses repeated: If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

CLEP EXAMINATIONS
Students may receive credit for approved courses taught in the La Salle University curriculum through participation in the College Level Examination Program (CLEP) of the College Entrance Examination Board, or through other authorized standardized testing procedures or in-house tests. Students who wish to attempt credit through examination must receive permission from their Dean’s office to determine which examinations are acceptable to La Salle, and to obtain permission for participation.

While the Academic Dean determines the credits to be granted for CLEP and other authorized standardized testing procedures, the individual department designates the subject examinations which are applicable to specific courses at La Salle University. Students may not be granted credit for a general examination CLEP course after completion of the freshman year, and a student who has received credit through conventional courses or through standardized testing for one or more advanced courses in a discipline may not challenge a beginning course in that discipline. No grades are assigned to courses credited through authorized standardized testing procedures.

Students who elect to receive credit through authorized standardized testing procedures or approved in-house tests will pay an administrative fee of $45.00 for each course examination taken.

STUDENT RESPONSIBILITIES
A student’s matriculation at La Salle University is a voluntary decision which involves acceptance of the responsibility to perform academically and to behave socially in ways
consistent with the goals and objectives of the University. When registering at La Salle, the student accepts University rules and regulations and the authority of the University to exercise disciplinary powers including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the University Bulletin, the Student Handbook, The Resident Student Survival Guide and any rules and regulations subsequently promulgated through appropriate publication to the University community. Copies of the Student Handbook may be obtained from the Student Life Office.

STUDENT REPORTS
A progress report is submitted to the Dean’s Office by each instructor at the middle of each term. Final grades are submitted to the Registrar’s Office at the end of a semester and these are made part of a student’s permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

SCHOLARSHIP INDEX
A scholarship index system is used at La Salle to determine a student’s average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

ACADEMIC PROGRESS
A full-time student is making adequate progress toward the degree if he or she has:
1. completed within the academic year (fall, spring, and summer) eighteen hours of new course work at satisfactory academic levels as indicated:
   a) completed freshman status—1.50 or above*
   b) completed sophomore status—1.75 or above*
   c) completed junior status—2.00 or above*
   d) within the senior year: 2.00 or above*
*See page 32 for definitions of status.

2. completed graduation requirements within a maximum of seven years of full-time study. For justifiable reason, exceptions may be determined by the Dean.

This policy statement defines the parameters within which the University will define the progress of the student for aid and funding purposes. Since the decisions rest with the granting agencies, “adequate progress” does not guarantee such aid.

DEANS’ HONOR LIST
The Deans’ Honor List is published at the termination of each semester. Those students who have a cumulative average of 3.4 are placed on the Deans’ List. To be eligible for this list, a student must have complied with all the regulations of the University and must have earned 24 credits with letter grades A, B, C, or D at La Salle University.

While students on the Deans’ List are excused from class attendance regulations, they are expected to fulfill the requirements of every course rostered. They are also eligible for courses in the University’s honors program.
ACADEMIC CENSURE

Academic censure is intended to be a service to the student who is in academic difficulty. It serves to alert some to the severity of their academic problem and to encourage them to seek help and counsel they need. For others, it is the imposition of a time period away from academic endeavors to permit adjustment of priorities.

Academic censure may assume any one of three forms, depending on the student's academic standing. During the evaluation of student records at the end of each semester, a student will normally be subject to the form of academic censure indicated if the cumulative grade point average falls below the levels outlined.

(a) Probation. A student is placed on probation who has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of freshman year, (b) less than 1.75 after the first or second term of sophomore year, (c) less than 1.90 after the first term of junior year, (d) less than 2.00 after the second term of junior year or during senior year. Such a student will be continued on probation until he has satisfied the conditions for good academic standing.

(b) Suspension. This is involuntary separation of the student from the University for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the University.

(c) Dismissal. This is involuntary separation of the student from the University for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the University.

A student is liable to suspension or dismissal: (1) when he/she has attained a cumulative scholarship index (a) less than 1.00 after the freshman year, (b) less than 1.50 after the sophomore year, (c) less than 1.90 after the junior year or (2) when he/she is on probation for two successive semesters.

Decisions on Probation will be made following determination of grades after the Fall semester, and after the final La Salle summer session. Decisions on Suspension and Dismissal will be made following determination of grades after the final La Salle summer session.

CREDIT FOR OFF-CAMPUS COURSES

Course work taken at other institutions by regularly-enrolled students at La Salle University may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better. The student's index may be affected only if the credit is for a course previously taken at La Salle.

REQUIREMENTS FOR A DEGREE

Students are responsible for filing an application for degree with the Registrar one year before the expected date of graduation.

Beginning with the graduating class of 1987, a candidate for the baccalaureate degree must have completed 120 semester credit hours which satisfy curricular requirements and which include at least 38 courses of 3 credit hours or more.

Certain curricula may require a number of hours exceeding this minimum. In addition to completing the required number of courses and hours, the student must also:

(a) have obtained a C average or cumulative index of 2.00 in his prescribed program of studies.

(b) have fulfilled all course requirements prescribed for him by the chairman of the department in which he majored and approved by the dean of the school in which he is enrolled.

(c) have fulfilled the General Education and Distribution Requirements.
Requirements for a Second Bachelor's Degree: La Salle will award either a B.A. or a B.S. degree to a student who has already earned a bachelor's degree from an accredited institution if these conditions are met:

(a) The student will obtain written permission from the appropriate dean and chairman.

(b) If the student holds a bachelor's degree from La Salle, he or she will meet substantial requirements for the major as determined at the time the student matriculates in the second degree program. A minimum of 30 credit hours would be required.

(c) If the student holds a bachelor's degree from another institution, a maximum of 70 credit hours may be transferred toward the second degree. The student must fulfill all core requirements as well as substantial requirements of the major as determined at the time the student enrolls in the second degree program.

HONORS

The bachelor's degree with honors is conferred on a student who has completed his course at the College with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction Maxima Cum Laude.

The candidate who has earned an average of 3.6 is graduated with the distinction Magna Cum Laude.

The candidate who has earned an average of 3.4 is graduated with the distinction Cum Laude.

Honors are computed on the basis of the work done for eight semesters.

WITHDRAWALS

A student who withdraws from the University must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases.

TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the University are sent, at the request of the student, to other institutions and organizations. Students requesting transcripts for their own use are given copies marked “student copy.” Each student is sent a copy of his transcript at the time of graduation. A fee of $1.00 is charged for an official transcript. When several copies are requested at the same time, the fee is $.50 for each additional copy. The University requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the University have been satisfactorily settled.
Arts & Sciences
DEGREE PROGRAMS

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, communications, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, geology, mathematics, physics, or psychology.

The School also offers programs designed as preparation for health professions, law, public administration, teaching, social work, and work in criminal justice. The Bachelor of Social Work degree is conferred upon social work graduates.

Preparation for the Health Professions

Students preparing for careers in the health professions (medicine, dentistry, veterinary medicine, podiatric medicine, optometry) generally major in biology or chemistry, but may elect to major in any program provided they schedule the required minimum science and mathematics courses to support their applications. The courses specified by the Association of American Medical Colleges for Medical School applicants are generally applicable as minimal requirement for any of the health professions. They are:

- Chemistry ................................................................. 12-16 sem. hrs.
- Physics ................................................................. 8 sem. hrs.
- Biology ................................................................. 8 sem. hrs.
- Mathematics ......................................................... 0-6 sem. hrs.

Most professional schools will accept these as minimal preparation, but recommend additional courses. Students should be alert to the fact that professional schools are interested in demonstration of aptitude in science and mathematics, and the courses taken must be those normally rostered by majors in these areas, not courses offered for non-major election.

In the normal review process in these schools, the applicant’s full undergraduate record is scrutinized. The strong liberal arts component in the La Salle curriculum will provide evidence of broad interest and rounded academic development. Evidence of leadership and active interest in associated activities will lend strong additional support to applications.

Normally the competition for placement in these programs results in high acceptance standards. Grade point averages ranging from 3.0 to 3.5 are representative of levels expected in these programs. Students are encouraged to consult with the health professions adviser concerning admissions criteria at various schools.

Preparation for Teaching

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in either the secondary schools or to teach mentally and/or physically handicapped students in the elementary and secondary schools of Pennsylvania. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, communications, English, French, German, Italian, Latin, mathematics, physics-mathematics, Spanish, special education, and comprehensive social studies. Students who satisfactorily complete the University’s requirements in these areas and are recommended by the Teacher Education Committee are issued teachers’ certificates. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.
The Education Departmental Board, consisting of faculty members from the education department, one faculty representative for each of the subject areas of teacher preparation, and student representatives in the teacher preparation program makes final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. A Teacher Placement Office on campus aids graduates in obtaining positions.

TEACHER CERTIFICATION PROGRAMS AND ADVISERS:
(Teacher certification is obtainable only in these areas.)

English—Brother Lawrence Colhocker
Biology, Chemistry, Mathematics, Physics—
Brother Richard Hawley, Brother Hugh Albright
Communications (Non-print media)—Brother Gerard Molyneaux
Comprehensive Social Studies—Dr. Gary Clabaugh
French, German, Italian, Latin, Spanish—Dr. John McCann
Special Education of the Exceptional Child—Emotionally
Disturbed, Mentally Retarded, Physically Handicapped,
Learning Disabled, Brain Damaged—Dr. Preston Feden

(Further details on the specific requirements in each of these areas are available in the education department office or from the appropriate adviser.)

Preparation for Law

Law schools do not prescribe particular curricula for admissions. La Salle University, therefore, approaches the preparation for law on an individual basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

Any student considering law as a career, regardless of his major curriculum interest, is encouraged to seek early counseling with the pre-law adviser, Dr. Edward Domineske.

Preparation for Criminal Justice Professions

Students preparing for careers in criminal justice professions pursue a curriculum which combines liberal arts with intensive coursework in the behavioral and social sciences and specialized courses in criminal justice. A major in criminal justice qualifies the student for admission to graduate programs in criminal justice and prepares the student for entry-level positions in law enforcement, judicial administration, probation, parole and correctional administration.

Preparation for Social Work

The primary objective of the social work program is to prepare competent, generalist practitioners for entry-level positions in the social work profession. Building on a liberal arts foundation, a knowledge of basic social work theory is acquired. The student explores the biological, psychological, social, economic and political phenomena that have an impact on people. There is a heavy emphasis on the development of skills needed to mobilize systems and resources for the enhancement of social functioning for the humanizing of institutions, and for the promotion of social change.

A secondary objective of the program is to prepare students for graduate studies in social work and other human service professions. To this end, a firm theoretical base is laid to support advanced study.

Graduates of the program have developed careers in both public and voluntary agencies. They are in such fields as child welfare, family services, aging and public
welfare. Many graduates choose to go on to graduate school either directly or after having gained work experience.

Students considering the social work major are encouraged to make this known to the Director of the Program for assistance in planning an academic course of study.

**CURRICULUM**

The curriculum for Arts and Sciences students has four parts:

1. General Education—7 courses (21 credits)
2. Distribution Requirement—8 courses (24 credits)
3. Departmental Requirements for Majors—ordinarily not more than 15 courses (45 credits)
4. Free Electives—minimum of 10 courses (30 credits)

The General Education courses, which will normally be completed by the end of sophomore year, concern themselves with the basic skill of written communication and with such value-oriented subjects as literature, religion, and philosophy. Each of these departments offers several courses which can be chosen to fulfill the General Education Requirement.

The range of choice is further widened by the Distribution Requirement, which is to be fulfilled by the end of junior year. Courses offered under this requirement help provide some depth outside your major field and also offer a measure of flexibility so that you can shape your program in accord with your interests.

The number of courses each department requires of its majors will normally not exceed 15, leaving at least 10 courses to be used as free electives. Some departments require their majors to take courses outside their primary field. Students may present such courses in fulfillment of Distribution Requirements.

The University recommends that students planning graduate studies acquire a good background in languages, since most graduate schools require a knowledge of one or two foreign languages before granting higher degrees.

**GENERAL EDUCATION REQUIREMENTS (To be completed by end of sophomore year)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>1 semester</td>
</tr>
<tr>
<td>Literature</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Philosophy</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Religion</td>
<td>2 semesters</td>
</tr>
</tbody>
</table>

(May be waived if writing competence is established.)

(English or foreign literature in English).

**DISTRIBUTION REQUIREMENTS (To be completed by end of junior year)**

Two courses in four of the areas below, exclusive of courses in your major

<table>
<thead>
<tr>
<th>Area I</th>
<th>Area II</th>
<th>Area III</th>
<th>Area IV</th>
<th>Area V</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Foreign Languages*</td>
<td>Fine Arts</td>
<td>Economics</td>
<td>Biology</td>
</tr>
<tr>
<td>History</td>
<td>Mathematics</td>
<td>(Music or Art)</td>
<td>Pol. Science</td>
<td>Chemistry</td>
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<tr>
<td></td>
<td></td>
<td>Philosophy</td>
<td>Sociology</td>
<td>Geology</td>
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<tr>
<td></td>
<td></td>
<td>Religion</td>
<td>Psychology</td>
<td>Physics</td>
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</tbody>
</table>

*To satisfy Distribution Requirements with Foreign Languages, the student must take two courses in the same foreign language.

*General Education courses may not be taken to fulfill Distribution Requirements.
MAJOR REQUIREMENTS
Requirements for majors in each department are listed along with that department's course descriptions, beginning on page 49 of this catalog.

FREE ELECTIVES
A student may choose to concentrate his free electives in a particular discipline to build a strong minor or may use these electives to diversify his background or broaden his interests. Free electives may be taken on a pass/fail basis. (See GRADES, page 34.)

MODEL ROSTER FOR MAJORS IN ARTS AND SOCIAL SCIENCES

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>Major Course</td>
<td>Gen. Ed. Lit.</td>
</tr>
<tr>
<td>Dist. Req.</td>
<td>Major Course</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td><strong>Spring</strong></td>
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<tr>
<td></td>
<td>Dist. Req.</td>
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</tbody>
</table>

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<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Major Course</td>
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<tr>
<td>Elective</td>
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</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
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</thead>
<tbody>
<tr>
<td>Major Course</td>
</tr>
<tr>
<td>Major Course</td>
</tr>
<tr>
<td>Elective</td>
</tr>
</tbody>
</table>

MODEL ROSTER FOR SCIENCE MAJORS

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Comp.</strong></td>
<td><strong>Dist. Req.</strong></td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Mathematics</td>
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<tr>
<td><strong>Sophomore Year</strong></td>
<td></td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
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</table>

<table>
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<tr>
<th><strong>Senior Year</strong></th>
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<tbody>
<tr>
<td>Major Course</td>
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<tr>
<td>Major Course</td>
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<tr>
<td>Elective</td>
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<tr>
<td>Elective</td>
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</table>

The above rosters illustrate ways in which the General Education Requirements, Distribution Requirements, Major Courses, and Electives might be scheduled over the four years.
PROGRESS RECORD

This chart offers a convenient way of planning and recording your academic progress. If you fill it out at the end of each semester and take it with you when you meet with your adviser for pre-registration, you will be assured of meeting the courses and hours required for graduation.

GENERAL EDUCATION (7 courses)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
<tr>
<td>Writing I</td>
<td>Literature</td>
<td>Literature</td>
<td>Religion</td>
<td>Religion</td>
<td>Philosophy A</td>
<td>Philosophy B</td>
</tr>
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MAJOR REQUIREMENTS (Fill in after consulting Course Descriptions for your major.)

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<tr>
<th>1</th>
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DISTRIBUTION REQUIREMENTS
(8 courses — 2 each from 4 of the 5 areas)

<table>
<thead>
<tr>
<th>Area 1: (Eng., Hist.)</th>
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<table>
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<tr>
<th>Area 2: (Lang., Math.)</th>
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<table>
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<tr>
<th>Area 3: (Fine Arts, Phil., Rel.)</th>
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<table>
<thead>
<tr>
<th>Area 4: (Econ., Pol. Sci., Soc., Psy.)</th>
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<table>
<thead>
<tr>
<th>Area 5: (Bio., Chem., Geo., Phys.)</th>
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</table>

ELECTIVES (10 courses)

<table>
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<th>1</th>
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</tr>
</tbody>
</table>
Course Descriptions

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives.

Key: (F)—Offered in fall term; (S)—Offered in spring term; (F, S)—Course may be rostered in either fall or spring term. The year is indicated if the course is offered in alternate years. D—Indicates that course is recommended by department to non-majors as suitable to fulfill a Distribution Requirement. If there is doubt about whether a course will fulfill the Distribution Requirement, the student should consult with the Dean.

ART HISTORY
(See Fine Arts.)

BIOLOGY*

BROTHER RICHARD HAWLEY, F.S.C., M.A., Chairman
Associate Professors: Belzer, Lowery, Mickle, Muldoon, Seitchik
Assistant Professors: Hawley, Ksiazek, McPhillips, O’Connor

Required for Major in Biology: 17 courses

- Biology 201, 202, 203, 407-408, and additional biology courses to total a minimum of 33 hours (Biology 301 is recommended by the department; sequence may be decided by the student.)
- Chemistry 111-112, 201-202
- Mathematics 113-120 (Mathematics 314 may be substituted if Mathematics 120 is taken as first course.)
- Physics 105-106

(N.B. 100-level Biology courses may not be used to fulfill Biology major requirements.)

Biology 151-152. D
ANATOMY AND PHYSIOLOGY
4-8 credits
A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. Three hours lecture, two hours laboratory; two terms.

Biology 153. (F) D
THE ANIMAL KINGDOM: FANTASY AND FACT
3 credits
For election in the distribution area by non-biology majors. A brief survey of the animal kingdom and its relationship to man. Consideration given to evolution, physiology, ecology, parasites, and genetics. Course incorporates lecture, visuals, and student investigations. One hour lecture, two hours lecture-laboratory.

Biology 154. (S) D
PLANTS: FLOWERING AND NON-FLOWERING
3 credits
For election in the distribution area by non-biology majors. A survey of the structure and metabolism of seed and non-seed plants. Consideration given to evolution, ecology, hormones, and basic systematics. Course incorporates lecture, visuals, and student investigations. One hour lecture, two hours lecture-laboratory.

*Non-majors planning to elect biology courses above the 100 level must secure the permission of the chairman. Biology 201 is a prerequisite for all courses above the 200 level.
Biology 155. (F)  
LIFE BEFORE BIRTH  
3 credits  
For election in the distribution area for non-biology majors. Lecture, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory.

Biology 156. (S)  
HUMAN GENETICS  
3 credits  
For election in the distribution area for non-biology majors. General principles of genetic transmission and their application to man. Discussion of currently developing procedures for genetic control which might have an impact on man, and of existing problems stemming from genetic transmission and chromosomal abnormality. Lecture, visuals, demonstrations, and student investigation. Three hours lecture, no laboratory.

Biology 201. (F, S)  
PRINCIPLES OF BIOLOGY  
4 credits  
Integrated principles of modern biology; the attributes of life and hypotheses of its genesis; the continuity of life and its diversification; energy sources and the biological energy cycles; cells, organisms, and their structure and communities. Required of all biology majors; normally taken as first major course; may be waived for advanced standing. Prerequisite: Chemistry 111-112. Three hours lecture, two hours laboratory.

Biology 202. (F, S)  
THE INVERTEBRATES  
4 credits  
Life processes, phylogenetic advances, and basic classification of the major pre-Chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.

Biology 203. (F, S)  
THE PLANT KINGDOM  
4 credits  
Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory.

Biology 251. (S)  
CLINICAL MICROBIOLOGY  
3 credits  
The physical and chemical techniques available for the destruction of microbes; the prevention of microbial contamination; role of specific pathogens in the etiology of human disease processes; chemotherapeutic and antibiotic preparations available to assist the body mechanisms. Recommended for nurses. Two hours lecture, two hours laboratory.

Biology 301. (F, S)  
THE VERTEBRATES  
4 credits  
Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.

Biology 303. (F, S)  
MICROBIOLOGY  
3 credits  
A lecture-laboratory course concerned with the role of micro-organisms in nature and especially in human affairs. Two hours lecture, two hours laboratory; one term.

Biology 305. (F)  
GENERAL PHYSIOLOGY  
3 credits  
Metabolic processes and associated physicochemical phenomena of living organisms. Current hypotheses of muscle, endocrine, neural, respiratory, cardiovascular, and nutritional physiology. Two hours lecture, two hours laboratory.
Biology 306. (S)
NEUROMUSCULAR PHYSIOLOGY 3 credits
A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. Two hours lecture, two hours laboratory.

Biology 308. (F)
MICROTECHNIQUE 3 credits
Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, four hours laboratory.

Biology 310. (S)
GENETICS 3 credits
Mendel's laws of heredity as observed in plants and animals, the scope and method of modern genetics. Two hours lecture, two hours laboratory.

Biology 312. (F)
RADIOBIOLOGY 3 credits
Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. Two hours lecture, two hours laboratory.

Biology 314. (S)
BIOMETRICS 3 credits
Analysis of experiments and research data in quantitative biology. Probability distributions, analysis of variance, rectilinear and curvilinear regression, and correlation. Three hours lecture.

Biology 315. (S)
PLANT PHYSIOLOGY 3 credits
Metabolic and physical processes of plants. Emphasis on photosynthesis, photorespiration, mineral nutrition, transpiration, phloem transport, intermediary metabolism, and hormonal activity. Prerequisite: Biology 201; recommended prerequisite: Biology 203. Two hours lecture, two hours laboratory. Offered in the spring semester of odd-numbered years.

Biology 316. (S)
PLANT ANATOMY 3 credits
Structure of plant tissues and organs, particularly those of higher vascular plants. Emphasis on vegetative organs, but reproductive organs are discussed. Structure correlated with function and/or habitat. Prerequisite: Biology 201; recommended prerequisite: Biology 203. Two hours lecture, two hours laboratory. This course is offered in the spring semester of even-numbered years.

Biology 318. (F)
EVOLUTION AND POPULATION GENETICS 3 credits
A presentation and analysis of the evidence for the evolution of life. Major topics include the origin of life and cellular organelles as well as the development of the diversity of life present today. Heavy emphasis on the ideas of Charles Darwin as expanded and modified by evidence from modern population genetics, cytogenetics and molecular biology. Offered in fall term of odd-numbered years.

Biology 401. (F)
TAXONOMY OF THE ANGIOSPERSMS 3 credits
Angiosperm systematics, field collecting and identifications; herbarium and greenhouse practice. Phylogeny, characteristics, and importance of the leading families of flowering plants. Offered in fall term of even-numbered years. Two hours lecture, two hours laboratory.

Biology 402. (F)
CELL BIOLOGY 3 credits
Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Two hours lecture, two hours laboratory.
Biology 403. (F)  
PRINCIPLES OF ECOLOGY  
3 credits  
Basic concepts of ecological theory; physical and biotic factors affecting the evolution, behavior, and community organization of organisms. Three hours lecture with field observations.

Biology 404. (S)  
FIELD ECOLOGY  
3 credits  
Project laboratory at La Salle Penilyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Prerequisite: Biology 403. Six hours laboratory and field work.

Biology 405. (F, S)  
HISTOLOGY  
4 credits  
The minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Two hours lecture, four hours laboratory.

Biology 406. (F, S)  
EMBRYOLOGY  
3 credits  
Fundamental processes underlying vertebrate development and differentiation; the frog, chick, and human form the basis of instruction. Two hours lecture, two hours laboratory.

Biology 407-408.  
BIOLOGICAL CHEMISTRY  
4-8 credits  
The principles of physical chemistry as they apply to biochemical reactions and the principal biochemical species and reaction sequences, the role of these reactions in specific biological functions. Laboratory application of techniques of analytical chemistry to analysis of biochemical reactivity. Three hours lecture, three hours laboratory; two terms.

Biology 470. (F, S)  
SPECIAL TOPICS IN BIOLOGY  
3 credits  
Presentation of review papers and discussions of assigned topics from main currents of biological research; participants to be recommended by department staff.

Biology 480-481. (F, S)  
BIOLOGICAL RESEARCH  
2-4 credits  
For election, particularly by qualified students contemplating postgraduate studies. Intended to provide actual research experience under staff supervision. Permission of chairman required. Hours to be arranged.

CHEMISTRY

THOMAS S. STRAUB, Ph.D., Chairman
Professors: Demitras
Associate Professors: Shalhoub, Straub
Assistant Professor: Cichowicz
Lecturer: Polek

Required for Major in Chemistry: 15 courses

- Chemistry 111-112, 201-202, 301-302, 305, 401, 402, 403
- Mathematics 120, 221, 222 (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)
- Physics 105-106 (Physics 211 is excellent preparation for Chemistry 301 and 302, but is not absolutely required.)
- The department suggests that all chemistry majors have at least 400 hours of lecture and 500 hours of laboratory work, Computer Science 150 and 153 or a reading knowledge of a foreign language, some advanced work in chemistry (normally Chemistry 308 or 470), and some
research experience are recommended. This additional work may qualify a chemistry major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

**Chemistry 111-112.**
GENERAL CHEMISTRY 4-8 credits
A general course based on physical principles; emphasis on elementary thermodynamics with applications to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory stresses the quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

**Chemistry 151. (F)**
CHEMISTRY OF THE LIFE SCIENCES D 4 credits
A terminal course for students who wish to obtain a general knowledge of chemistry with emphasis on the processes in the body and in nature. Descriptive and some quantitative principles discussed. Three hours lecture, three hours laboratory.

**Chemistry 170-171. (F, S)**
SPECIAL TOPICS D 3-6 credits
Courses of general interest for students not intending to major in a physical science.

**Chemistry 201-202.**
ORGANIC CHEMISTRY 4-8 credits
Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisites: Chemistry 111-112. Three hours lecture, three hours laboratory; two terms.

**Chemistry 301-302.**
PHYSICAL CHEMISTRY 4-8 credits
Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electrochemistry, electrical conductivity, and chemical thermodynamics. Prerequisites: Chemistry 201-202, Mathematics 221-222. Three hours lecture, three hours laboratory; two terms.

**Chemistry 305. (F)**
QUANTITATIVE ANALYSIS 4 credits
Neutralization, oxidation-reduction, chemical equilibria, colorimetry, and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Three hours lecture, three hours laboratory.

**Chemistry 306. (S)**
QUANTUM CHEMISTRY 2 credits
Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics. Prerequisites: Chemistry 301-302.

**Chemistry 308. (S)**
BIOCHEMISTRY 4 credits
The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisites: Chemistry 201-202, 301. Three hours lecture, three hours laboratory.
Chemistry 401. (F)  
QUALITATIVE ORGANIC ANALYSIS  
4 credits  
A study of the classifying reactions of organic compounds as exemplified by the analysis of compounds and mixtures in the laboratory. Restricted to chemistry majors. Prerequisites: Chemistry 201-202. Eight hours of laboratory per week and individual conferences.

Chemistry 402. (S)  
ADVANCED QUANTITATIVE ANALYSIS  
4 credits  
Theory and practice of physical measuring instruments with particular attention to the use of the instruments. Modern trends in analytical chemistry. Prerequisites: Chemistry 301, 302, 305. Two hours lecture, six hours laboratory.

Chemistry 403. (F)  
ADVANCED INORGANIC CHEMISTRY  
3 credits  
The vector model of the atom, theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals and their complexions. Prerequisites: Chemistry 201-202, 301-302.

Chemistry 404. (S)  
ADVANCED ORGANIC TOPICS  
3 credits  
Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisites: Chemistry 201-202, 301. Three hours of lecture.

Chemistry 450. (F, S, Summer)  
COOPERATIVE CHEMICAL EDUCATION  
3 credits  
A cooperative experience between the chemistry department and chemical industry to provide on-the-job training in fields relating to chemistry and industry. On approval of the chairman only.

Chemistry 470. (F, S)  
SPECIAL TOPICS  
3 credits  
Courses in “Polymers and Polymer Coatings” and in “Chemical Marketing” are offered as Special Topics in the Evening Division and are open to day students.

Chemistry 480 and/or 481. (F, S)  
CHEMICAL RESEARCH  
4-8 credits  
Individual laboratory or theoretical work under supervision of a staff member. Restricted to chemistry majors. Hours to be arranged.

COMMUNICATIONS  
(See English and Communication Arts.)

COMPUTER SCIENCE  
(See Mathematical Sciences.)

CRIMINAL JUSTICE  
(See Sociology.)
Required for Major in Economics: 15 courses

- Economics 101-102, 201, 203, 213, 214, 303, 304, 411, 412, 480
- Mathematics 111-112 (Mathematics 113, 120, 240 recommended in preparation for graduate school)
- Two courses in the social sciences (psychology, political science, or sociology).

**Economics 101. (F)**
**INTRODUCTORY ECONOMICS I**

A study of the operation of the economic system, including a comparison of capitalistic and socialistic economies and consideration of the influence of government policies on economic activity. Emphasis on the U.S. economy and factors which determine employment, inflation, gross national product, and the money supply. A prerequisite for other economics courses except Economics 230, 320, 411, 412.

**Economics 102. (S)**
**INTRODUCTORY ECONOMICS II**

A continuation of Economics 101. Topics include: economic problems of the business firm; economic growth of society; urban problems associated with economic growth; economic approaches to ecological issues; international trade issues; economic problems of poor countries. Prerequisite: Economics 101.

**Economics 201. (F)**
**MONETARY ECONOMICS**

A study of the monetary and financial system of the U.S. economy. Emphasis on the importance of the money supply, the demand for money, and interest rates, along with more recent developments in the study of monetary variables. Instruments of monetary policy discussed and evaluated in the context of contemporary economic theory; the position of the American financial system in the international financial network. Prerequisites: Economics 101, 102.

**Economics 203. (S)**
**AMERICAN ECONOMIC HISTORY**

Analyzes long-term economic growth and development since 1600. Stresses demographic, technological, institutional factors interacting with the market system. Covers impenalism, slavery, industrialization and urbanization, role of government, rise of service economy. Applies basic economic questions and theories of growth to developmental questions.

**Economics 213. (F, S)**
**ECONOMICS AND BUSINESS STATISTICS I**

General introduction to the basic ideas and procedures of statistical analysis with special emphasis on their application to economics and business. Methods of statistical description, index numbers, and time series analyses. Introduction to statistical inference using the normal probability distribution. Prerequisites: Economics 101, 102.

**Economics 214. (S)**
**ECONOMICS AND BUSINESS STATISTICS II**

Foundations of statistical inference as applied to decision making on the basis of limited information. Basic concepts of probability, probability distributions, estimation and test of hypotheses, regression and correlation techniques. Prerequisite: Economics 213.
Economics 230. (S)
THIRD WORLD POVERTY AND ECONOMIC DEVELOPMENT 3 credits
An analysis of the causes of poverty in underdeveloped countries. Theories of development and policies to promote development emphasized. Social, political, cultural factors, and relations with rich countries also treated.

Economics 301. (F, S)
LABOR PROBLEMS IN AMERICA 3 credits
Study of the sources of the union movement, its history, structure, and functions. Attention to the development of economic, political, and social power, as well as to the problems involved in the use of this power: management rights and management reaction to unions are also treated. Prerequisites: Economics 101, 102. Identical with Relations 301.

Economics 302. (F, S)
MANAGERIAL ECONOMICS 3 credits
Forms of competitive behavior, uses of marginal cost analysis, pricing techniques, and profit and demand measurement and forecasting. The process of evaluating alternative business solutions and tentatively formulating policies. Prerequisites: Economics 101-102; Mathematics 111-112 and Quantitative Analysis 213.

Economics 303. (F)
INTERMEDIATE MICRO THEORY I: PRICE THEORY 4 credits

Economics 304. (S)
INTERMEDIATE MACRO THEORY II: THEORY OF EMPLOYMENT, GROWTH, AND FLUCTUATIONS 4 credits
Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: Economics 101, 102.

Economics/Political Science 320. (F)  D
INTRODUCTION TO URBAN STUDIES 3 credits
Interdisciplinary analysis of cities and urbanization. Examines comparative cause and effect patterns. Places the American experience in long run, world perspective. Stresses the post-1920 metropolitanization and how resultant urban problems interact with wider social and economic forces. Prerequisites: 6 hours of social science.

Economics Political Science 321. (S)  D
SEMINAR IN URBAN STUDIES 3 credits
Analyzes social and economic policy decisions towards urban America since World War II. Urban finance, housing, crime, schooling, transportation, and selected other areas examined. Includes evaluation of limits, directions, and mix of government and private sectors. Prerequisites: 6 hours of social science.

Economics 404. (S)
PUBLIC FINANCE 3 credits
An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Prerequisites: Economics 101, 102.

Economics 411. (F)  D
HISTORY OF ECONOMIC THOUGHT 3 credits
A detailed study of the leading economic concepts and schools of economic thought from the mercantilists up to and including Alfred Marshall.


**Economics 412. (S)**  
CONTEMPORARY ECONOMIC SYSTEMS  
3 credits  
A continuation of Economics 411 until Keynesian economics has been treated; a history and analysis of socialist and Marxist thought culminating in a comparative study of the structure and function of the economies of the United States and the Soviet Union.

**Economics 431. (F)**  
INTERNATIONAL ECONOMICS  
3 credits  
An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisites: Economics 101, 102.

**Economics 470. (S)**  
SPECIAL TOPICS  
3 credits  
Concentration on a particular aspect of economic theory or economic issues. Topics will vary according to student interest and availability of faculty.

**Economics 480. (F, S)**  
SEMINAR  
3 credits  
A study of methodology in economics and of the techniques of preparing research reports.

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**EDUCATION**

ROBERT VOGEL, Ed.D., Chairman  
PRESTON FEDEN, Ed.D., Director of Special Education  
LAWRENCE COLHOCKER, F.S.C., Ed.D., Director of Secondary Education  
GARY CLABAUGH, Ed.D., Director of Graduate Education  
Associate Professors: Bangs, Binkowski, Clabaugh, Feden, Lambert  
Assistant Professors: Colhocker, Vogel

**Major in Education**

La Salle University offers teacher preparation programs in secondary and special education (see below). These programs are approved by the Pennsylvania Department of Education and lead to a B.A. in Education and Instructional I certification in the area(s) chosen by the certification candidate. Application for admission into the teacher preparation program is normally made during the freshman year. Application forms may be obtained from the department office (Olney Hall 254).

Before being accepted into the Professional Semester (Secondary Education majors) or the Professional Year (Special Education majors), students must have an overall index of 2.0, an index of 2.5 or better in the associated major (English, mathematics, special education), and an index of 2.5 in all education course work. Students must be recommended by the Teacher Education Committee before beginning student teaching. Recommendations are predicated upon successful completion of all course requirements and on the fitness of the individual for the professional position he or she has selected. For example, to be approved for student teaching, the student must demonstrate competency in both oral and written communication.

Upon successful completion of the Professional Semester or the Professional Year, a student may apply for Instructional I certification. State certification regulations require that an applicant for a teacher's certificate be known by the preparing institution as a person of good moral character, possessing personal qualities, professional knowledge, and pedagogical competencies which warrant issuance of a teacher's certificate (School Laws of Pennsylvania, Article XII). In addition, all applicants must meet certain physical and medical standards to obtain an Instructional I certificate to teach in the public schools of Pennsylvania.
Students not majoring in education are invited to register for education courses that carry no prerequisites. (See Chairman for more information.)

Requirements for Major in Secondary Education:

• Education 201, 203, 301, 470-471-472
• Psychology 101
• Courses designated for associated major (See Education Department brochure and area advisers for specific courses.)

La Salle University offers a program of studies that is approved by the Pennsylvania Department of Education and leads to Instructional I certification in Comprehensive Social Studies, Communications (Non-print media), English, Earth and Space Sciences, Biology, Chemistry, Physics, Mathematics, French, German, Italian, Latin and Spanish. (Foreign language students are certified to teach K-12.) For further information, see Brother Lawrence Colhocker, Director of Secondary Education.

Requirements for Major in Special Education:

• Education 141, 201, 203, 241, 301, 304, 343, 344, 475-476
• Psychology 101 and two of the following:
  • Psychology 203, 206, 315
• Biology 155

La Salle University offers a program of studies that is approved by the Pennsylvania Department of Education and leads to Instructional I certification as Teacher of the Mentally and/or Physically Handicapped, K-12. This certificate enables successful graduates to teach severely/profoundly, trainable, and educable mentally retarded children; emotionally disturbed children; learning disabled children; physically handicapped children; and brain damaged children.

Students are expected to roster Education 201, Education 141, and Psychology 101 during the freshman year. All special education students must meet with a department faculty member during each preregistration period throughout the entire four-year program. This insures that all students are following the prescribed sequence of courses leading to a degree and to certification.

For further information, see Dr. Preston Feden, Director of Special Education.

Requirements for Master of Arts in Education:

See Dr. Gary Clabaugh, Director of Graduate Education.

Requirements for Major in Elementary Education and Business Education:

See chairperson of Education Department.

Religion-Education

This program has been designed for those students who wish to teach religion in the secondary school. Since religion is not an accredited subject in any state, no Pennsylvania Instructional Certificate can be issued.

Courses required:

• Education 203, 301, 470-471-472
• Courses designated by the Religion Department

Education 141. (F, S)
HUMAN EXCEPTIONALITY 3 credits

A study of human exceptionality and its implications. The following exceptionalities are studied: physically handicapped, mentally retarded, emotionally disturbed, learning disabled, speech handicapped, visually handicapped, auditorally handicapped, and gifted. Observations of special education programs and facilities required.
Education 201. (F, S)
THE SCHOOL: EDUCATION IN PHILOSOPHICAL AND CULTURAL PERSPECTIVE    3 credits
Analysis of relationship between organizational structure and educational policies of American schooling and the broader society.

Education 203. (F, S)
THE LEARNER: EDUCATIONAL PSYCHOLOGY    3 credits
Study of psychological principles as they apply to the pupil and the learning process. Emphasis on practical applications of cognitive, moral, and social development theories as they relate to learners of all ages in both formal and informal educational settings. Topics include: learning theory, retention and transfer, individual differences, goal setting, educational measurement and statistics, assessment, and evaluation. Field experience required (Two hours per week). Same as Psychology 301.

Education 241. (F, S)
EARLY EXPERIENCE WITH EXCEPTIONAL CHILDREN    3 credits
Provides the prospective special education major with early exposure to exceptional children and professionals practicing in the field. Students spend the semester working four to six hours a week with a variety of exceptional persons. A two-hour seminar will be conducted each week on campus.

Education 301. (F, S)
THE TEACHER: STUDY OF TEACHING    3 credits
The study of teaching skills. Includes simulations, micro-teaching, interaction analysis. Prerequisites: field experience in education, Education 201, 203.

Education 302. (F, S)
INSTRUCTIONAL MEDIA AND TECHNOLOGY    3 credits
Application of appropriate media formats in educational and business instructional settings. Design, production, and use of overhead transparencies; still photography; drymounting materials; audiotapes; multimedia presentations; and television programs. Examination of impact of computers in education.

Education 304. (F, S)
DEVELOPMENTAL READING    3 credits
A competency based experience to help students planning teaching careers recognize and deal with the various problems encountered in teaching reading. Emphasis on evaluation of and planning for the development of basic reading skills in children and adolescents. Field experience required. Prerequisite: Education 203.

Education 330. (F, S)
THE EDUCATION OF URBAN POPULATIONS    3 credits
A multidisciplinary examination of the social, economic, political, and demographic aspects of urban populations as they affect formal education. Team taught. Identical with Political Science 330.

Education 343. (F)
CURRICULUM ADJUSTMENT    3 credits
This course is broad in scope and content, and focus is on the students developing their own ideas about special education by understanding current issues, approaches to teaching exceptional children, and the relationship of theory to practice. Helps the students adjust the school curricula to the needs of exceptional children. Tutorial work with a child or children who exhibit learning problems is required. (Two hours a week.) Prerequisites: Education 141, 203, 241.
Education 344. (S)
DIAGNOSIS AND CORRECTION OF LEARNING PROBLEMS 3 credits
The student will learn about current theories of perceptual-motor, language, cognitive, academic, and social development. Based on this knowledge, students will assess a child's needs, plan and evaluate remedial programs based on the needs of children with learning problems. Tutorial work with a child or with children who exhibit learning problems is required. (Two hours a week.) Prerequisites: Education 141, 203, 241, 343.

Education 470-471-472. (S)
THE PROFESSIONAL SEMESTER 15 credits
Affords education majors specific and general preparation for student-teaching experiences. Comprises one full semester and embodies instruction in Special Methods of Teaching in various disciplines; direct application of educational media, methods, and materials to teaching; seminars in developmental reading, and ten to twelve weeks full-time assignment to classroom observation and teaching in selected secondary schools.

The Professional Semester requires the student to participate on a five-day-a-week, full day schedule. Prerequisites: field experience in education, Education 201, 203, 301 and approval of associated major and education department chairpersons.

Education 475. (F, S)
THE PROFESSIONAL YEAR—STUDENT TEACHING 18 credits
Students practice teach for an entire academic year. One semester is spent teaching mildly handicapped pupils, and one semester is spent teaching moderately and severely handicapped pupils. Each experience is with pupils of different chronological ages and varying categories of exceptionality. Prerequisites: completion of all courses required for major, 2.5 average in major requirements, and approval of the faculty committee. (A certificate cannot be issued to a student who has not successfully met the University requirements for a baccalaureate degree; therefore, students would usually have completed these requirements before the Professional Year).

Education 476. (F, S)
THE PROFESSIONAL YEAR—METHODS 12 credits
Weekly seminars held both on campus and in practicum sites to help students translate theory into practice by exploring teaching methods that are successful with exceptional children. For one semester, the focus is on methods used to teach mildly handicapped pupils, including methods in the content areas such as reading and mathematics. During another semester, the focus is on methods used to teach moderately and severely handicapped youngsters, with emphasis on Career and Vocational Education, Behavior Modification, and the various therapies. Taken concurrently with Education 475. Prerequisite: Acceptance into Education 475.

Education 482. (S)
AN INTRODUCTION TO GEOGRAPHY 3 credits
An examination of our earth: explains the planet's physical phenomena and highlights the relationship between people and their environment. Required for majors in Comprehensive Social Studies; open to non-majors.
ENGLISH AND COMMUNICATION ARTS

JOHN J. KEENAN, M.A., Chairman
JAMES A. BUTLER, Ph.D., Assistant Chairman
GERARD MOLYNEAUX, F.S.C., Ph.D., Assistant Chairman, Communication Arts

Professors: Burke, Butler, Ellis, Fallon, Keenan, Koch, Millard, Seydow
Associate Professors: Doran, Goedkoop, Haberstroh, Hannum, Harty, Kleis, Lautz, Mollenhauer, Molyneaux, Musil, Newton, Soven, Thornton
Assistant Professors: Allen, Barchak, Foote, MacLeod, Rao, Wine
Instructor: Kling
Lecturers: Lyons, Meredith

Required for Majors in English: 15 courses (Dual Majors: 10 courses)

English majors may choose one of several “majors within the major”: (1) Liberal Arts; (2) English-Education; (3) Writing; (4) Dual Majors, e.g., English-Accounting, English-Biology, English-Psychology. Both English and Communication Arts majors may intern at advertising, public relations, publishing, broadcasting, and newspaper positions. See course description under English 461 for requirements.

The usual requirements for each program are as follows: (Exceptions require the approval of the chairman or assistant chairman.)

- **Liberal Arts:** English 201. English 202. Either English 311, 312, or 313. English 221-222. Either English 341, 342, or 343. Three period courses (322 through 332). English 325. Either English 301, 302, 304, 401, or 402. Four English electives (not to include English 256 or any 160-level course).


- **Writing:** English 103, 201 or 202; 205, 221, 222, one contemporary course (either 311, 312, or 313), 325, 210 or 304, four writing courses (choices include English 206, 207, 208, 305, 306, 307, 308, 310, 353, 358, 461.) Three English electives (not to include English 256 or any 160-level course).

- **Dual Major:** Individual program to be worked out in consultation with the chairman.

Required for Majors in Communication Arts: 15 courses

- English 206, 256, 257, 258, 259, 353, 356, 357, 358, 403, 404
- Four English electives (excluding: 160-level courses, English 250-251, 300, 310, 353, 355, 461)

GENERAL EDUCATION

English 101. (F, S)

WRITING 1 3 credits

Designed to train students to write correct, effective, and interesting prose. Individual conferences and regular writing assignments to encourage practice in each step of the writing process.
Fall Semester

English 161. (F)
THE EXPERIENCE OF LITERATURE 3 credits
An examination of selected fiction, poetry, and drama, and the way in which the form of a work interacts with its content. Imaginative literature to encourage the student to read with increased taste, perception, and pleasure. Short critical papers.

English 164. (F)
WORKS OF MAJOR AUTHORS 3 credits
An introduction to the works of several major figures who, because of their timeless appeal, have continued to attract and excite readers through the centuries. Readings will include fiction, poetry, and drama. Short critical papers.

Spring Semester

English 160. (S)
LITERATURE AND THE SEXES 3 credits
Examines literature as a reflection of the different ways women and men are shaped by their society and of the ways they have related to each other in the private and public spheres. Short critical papers.

English 165. (S)
LITERATURE AND SOCIETY 3 credits
Fiction, poetry, and drama considered as reflections of a particular social and political environment. The relationship between the art work and the intellectual and cultural background that produced it. Short critical papers.

English 166. (S)
AMERICAN DREAMS, AMERICAN NIGHTMARES 3 credits
A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the face of war, poverty, discrimination, and industrial and technological revolutions. Readings include fiction, poetry, and drama. Short critical papers.

SECTION I: GENRE COURSES

Ia. INTRODUCTORY COURSES

English 103. (F, S) INTRODUCTION TO SHORT FICTION 3 credits
Reading, analysis, and discussion of short fiction.

English 201. (F, S) INTRODUCTION TO POETRY 3 credits
A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry.

English 202. (F, S) INTRODUCTION TO DRAMA 3 credits
A survey of the development of the dramatic arts of comedy and tragedy from the ritual drama of Greece to the realism and naturalism of the 20th century.

Ib. CONTEMPORARY COURSES

English 311. (S) CONTEMPORARY BRITISH AND AMERICAN NOVEL 3 credits

English 312. (F) READINGS IN MODERN DRAMA 3 credits
Selected plays of the modern theatre from Ibsen to Ionesco and other contemporary dramatists.
English 313. (F)  
CONTEMPORARY POETRY  
3 credits  
An examination of representative 20th century poetic practice in English.

**SECTION II: ENGLISH AND AMERICAN LITERATURE COURSES**

**IIa  ENGLISH SURVEY COURSES**

**English 221-222. (F, S)**  
THE LITERATURE OF ENGLAND  
3-6 credits  
Survey course in English literature showing development in types and forms. Fall: *Beowulf* to Blake. Spring: since 1800.

**IIb  AMERICAN SURVEY COURSES**

**English 341. (F)**  
AMERICAN LITERATURE (to 1860)  
3 credits  
Literary historical movements of the period: major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

**English 342. (S)**  
AMERICAN LITERATURE (1860-1900)  
3 credits  
Rise of realism; naturalism. Figures include Whitman, Twain, Dickinson, Howells, James, Wharton, Crane, and Dreiser.

**English 343. (F, S)**  
AMERICAN LITERATURE: 20th CENTURY  
3 credits  

**IIc  ENGLISH PERIOD COURSES**

**English 322. (S 1986, F 1987)**  
CHAUCER AND HIS WORLD  
3 credits  
Readings in *The Canterbury Tales*: short selections from medieval drama, romance, and allegory.

**English 323. (F 1985, F 1988)**  
RENAISSANCE LITERATURE  
3 credits  
The intellectual, political, religious, and scientific ferment that accompanied the birth of Humanism and the death of Medieval order as expressed in the works of More, Machiavelli, Shakespeare, Donne, Bacon, and Milton.

**English 326. (S 1987)**  
MILTON IN AN AGE OF REVOLUTION  
3 credits  
The works of the great English poet as they reflect the conflicting values of the Renaissance and Reformation, presented against a backdrop of Civil War and the short-lived English Republic.

**English 327. (S 1986, F 1987)**  
ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY  
3 credits  
The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries.

**English 328. (F 1986, S 1988)**  
THE ENGLISH NOVEL TO 1900  
3 credits  
The roots of modern fiction. Historical development of the novel from Defoe to Hardy. Analysis of structures and themes.

**English 329. (S 1986, F 1987)**  
ENGLISH LITERATURE OF THE ROMANTIC PERIOD  
3 credits  
An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats; their practice and theory. Pertinent references to their contemporaries.
English 330. (F 1985, S 1987)
ENGLISH LITERATURE OF THE VICTORIAN PERIOD 3 credits
The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed.

English 332. (F 1986, S 1988)
MODERN BRITISH LITERATURE 3 credits
Beginning with Shaw and Yeats and covering the major figures up to the present. Drama, fiction, poetry with some attention to the cultural, social, and artistic influences.

**Id. SHAKESPEARE COURSES**

English 225, (F, S)
SHAKESPEARE'S ART AND TIMES 3 credits
Readings in Shakespeare's plays, emphasizing his success as a writer for the stage. Some consideration of the cultural background. A course designed with the non-English major in mind.

English 325, (F, S)
SHAKESPEARE 3 credits
Intensive study of selected poems and plays, including tragedies, comedies, and chronicles, exploring the dramatic, literary, and historical dimensions of his art.

**SECTION III: LINGUISTICS COURSES**

English 210, (S)
LANGUAGE AND PREJUDICE 3 credits
A study of how language affects the way we view ourselves and others in our culture. Case studies of language in relation to sexism, racism, and politics, supplemented by introductory concepts of language systems and stylistic analysis.

English 301, (F 1986, S 1988)
HISTORY OF THE ENGLISH LANGUAGE 3 credits
Development of modern English from Old and Middle English; dialects and dialect geography.

English 304, (F)
THE GRAMMARS OF ENGLISH 3 credits
History of the English language and introduction to modern linguistic systems (traditional, structural, transformational) as applicable to selected secondary school grammar texts.

**SECTION IV: LITERARY CRITICISM COURSES**

English 401, (S)
LITERARY THEORY AND CRITICISM 3 credits
An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings.

English 402, (F)
HISTORY OF LITERARY CRITICISM 3 credits
Readings and discussion of major critical texts in historical setting. Short critical papers.

**SPECIAL TOPICS COURSES**

English 204, (F, S)
WOMEN AND LITERATURE 3 credits
Examines the ways in which women have been represented in British and American literature, exploring the cultural and historical origins of those representations.
English 215. (F)  
YOUNG ADULT LITERATURE  
3 credits  
Aimed at preparing prospective and actual teachers, librarians, and parents to understand and to direct the reading of young adults. Attention will be paid to the reading and discussion of contemporary young adult fiction representing a variety of themes and genres. Other topics include adolescent psychology, the history and development of young adult literature, current trends in young adult literature, and the young adult in film and other mass media.

English 243. (S)  
RELIGIOUS ATTITUDES IN MODERN LITERATURE  
3 credits  
Identical with Religion 243.

English 250-251. (F 1985, F 1987)  
DRAMA WORKSHOP  
3 credits  
Theory and practice in the arts of acting and directing for the theatre; brief historical perspectives and graduated individual and/or group work on speeches and scenes; specific assignments and projects designed to meet the needs of the beginning or advanced student. May be repeated for credit.

English 252. (F 1986, F 1988)  
ORAL INTERPRETATION OF PROSE AND POETRY  
3 credits  
Theory and practice in the training of the speaking voice for the demands of reading aloud; graduated work in the preparation, interpretation, and public performance of literary and dramatic works.

English 254. (F, S)  
ORAL COMMUNICATION  
3 credits  
Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience.

English 255. (S 1986, S 1988)  
THEATRE NOW  
3 credits  
Study of genres and trends in contemporary theatre.

English 314. (F 1985, S 1987)  
WOMEN WRITERS  
3 credits  
Examines literature by women in relation to cultural, historical, and biographical origins, and in relation to specific traditions of women's writing in poetry, fiction, and drama.

WRITING COURSES

English 104. (F, S)  
WRITING IN THE ARTS AND SCIENCES  
3 credits  
A course for those who want additional instruction and experience in writing. Emphasis on writing papers according to the forms required in the social sciences, humanities, and physical sciences: reading selections drawn from these fields. Individual conferences. Prerequisite: English 101.

English 205. (F, S)  
HOW A WRITER WORKS  
3 credits  
A course that permits students to develop talent in various kinds of writing: essays, articles, reviews. Attention to a writer's methods and resources. Prerequisite: English 101.

English 206. (F, S)  
FUNDAMENTALS OF JOURNALISM  
3 credits  
Reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.
English 207-305-306. (F, S)  
CREATIVE WRITING I, II, & III  
3 credits per term  
Workshops in the writing of fiction and verse. Prerequisite for English 207: English 205 or permission of instructor. Prerequisite for English 305 or 306: permission of instructor.

English 208. (F, S)  
WRITING FOR BUSINESS  
3 credits  
Provides instruction in planning and executing effective business writing. Students learn to write the documents required of them as professionals: letters, resumes, memos, proposals, abstracts, and reports. Prerequisites: English 101, junior or senior status.

English 300. (F)  
PROFESSIONAL SKILLS IN ENGLISH  
3 credits  
A course primarily in the teaching of writing which includes a review of the principles of spelling and grammar, literary terminology, and critical procedures. Practicum in writing instruction (or tutoring) required. Prerequisite: English 101 or equivalent.

English 307.  
PLAYWRITING  
3 credits  
Study of the art of the playwright from the traditional and contemporary point of view. Guided writing of a one-act play.

English 308. (F)  
PROFESSIONAL WRITING  
3-6 credits  
Directed practice in writing feature articles, speeches, public relations materials, advertisements, pamphlets, and brochures. Intended for students interested in careers as professional writers for business and industry, either on an in-company or freelance basis. Prerequisite: English 205 or permission of instructor.

English 310. (S 1986, S 1988)  
EDITING AND PUBLISHING  
3 credits  
Workshop approach to provide students with experience in judging manuscripts, editing copy, proofreading, typographical design, and production. Some field trips to printing and graphic arts centers. Guest lectures by practicing professionals.

COMMUNICATION ARTS COURSES

English 256. (F, S)  
DYNAMICS OF COMMUNICATION  
3 credits  
Through lectures, demonstrations, and laboratory experiences, students learn current theories of communication and improve their skills in communicating personally and through media. Group and individual analysis of the dynamics of communication processes.

English 257. (F, S)  
INTRODUCTION TO MASS MEDIA  
3 credits  
Investigation of newspapers, magazines, radio, television, and film as mass media. Influence of the medium on content. Internal and external efforts at regulation.

English 258. (F, S)  
MEDIA: DESIGN AND PRODUCTION  
3 credits  
Analysis and production of visual communication through still photography, television, and film to develop skills in perception and composition of visual communication.

English 259. (F, S)  
FILM AS ART  
3 credits  
A study of selected films and discussion of the artistic techniques involved.
English 353. (F, S)  
WRITING FOR THE MEDIA  
3 credits  
Development of writing techniques with emphasis on non-print media. Analysis of the writing styles found in documentary reporting, advertising, and entertainment formats of the media. Fall: news writing; spring: script writing. May be taken in Fall, Spring, or both.

English 355. (F, S)  
RADIO PRODUCTION  
3 credits  
Introduces students to the fundamental theories and practices of radio production. Topics include: arranging the programming day, scripting news, dramatic and commercial presentations; training of personnel for actual programming. Prerequisite: English 258.

English 356. (F, S)  
TELEVISION PRODUCTION  
3 credits  
Introduction to the planning, production, and editing methods of electronic communication. Includes pre-production scripting and participation in production of videotaped television shows. Prerequisite: English 258.

English 357. (F, S)  
BROADCASTING IN AMERICA  
3 credits  
A study of the structure of broadcasting in America and of its interaction with society. Prerequisite: English 257.

English 358. (F, S)  
ADVERTISING AND PUBLIC RELATIONS WRITING  
3 credits  
How to write copy for print advertising and press releases, with an emphasis on creativity. The marketing process, campaign strategy, and advertising research. Preparation of a total campaign, requiring oral and written presentations in either advertising or public relations.

English 403. (F, S)  
FILM SEMINARS  
3 credits  
The motion picture as industry, as historical record, and as art. Among topics offered: documentary film, film comedy in America, film theory and criticism, film history, the great directors. Prerequisite: English 259 or permission of instructor.

English 404. (F)  
BROADCAST SEMINARS  
3 credits  
Broadcast Regulation and Law, Future Technologies, and Communication Theories are offered as separate broadcast seminar topics. Junior and Senior students may select one or more of these topics for their seminar course(s).

English 461. (F, S)  
INTERNSHIP  
3 or 6 credits  
Students may intern at advertising, public relations, publishing and broadcasting companies. Working under professional supervision, they learn how to apply their education to the everyday demands of these positions. Required: Junior or senior standing, 2.75 grade point average, and recommendation of the internship coordinator.
Required for Major in Art History: 13 courses

- Art 151-152, 311, 312, 313, 315, 317, 319, 470
- Any two studio courses. (Additional studio courses available at Chestnut Hill College.)
- Two art history electives

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in art history. Those anticipating graduate work are also advised to select courses in German, French, Italian, Latin, and Greek as preparation for advanced studies. The art history major is to consider Art 151-152 as prerequisite for other art history courses.

ART

Art 101. (F.S) ELEMENTS OF ART 3 credits
Analysis of the elements of painting, sculpture, and architecture, application of principles to several major artists and to the major stylistic periods. Ideally suited to the general student as an introductory course in art techniques.

ART HISTORY

For the general student, courses in art history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

Art 151-152. (F.S) HISTORY OF ART 3-6 credits
Chronological survey of the painting, sculpture, architecture, and minor arts of World Cultures with special emphasis on Western civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1400. Spring term: 1400 to present.

Art 201. HISTORY OF ARCHITECTURE 3 credits
Chronological study of the growth and development of the major architectural styles in Western Europe, their interrelation and the manner in which they reflect the social needs of the times.

Art 206. PAINTING FROM DAVID TO VAN GOGH 3 credits
Study of the stylistic changes and examination of the methods and subject-matter of pictorial representation from the end of the 18th century to the end of the 19th century.

Art 207-208. ORIENTAL ART 3-6 credits
Development and growth of the visual arts in Asia from prehistoric times to the present. The movement of art styles across the Asian continent. Fall term: India, Sri Lanka, Southeast Asia. Spring term: China, Korea, Japan.

Art 209. AMERICAN ART 3 credits
Chronological survey of the painting, sculpture, architecture, and the minor arts in America from colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the du Pont Winterthur Museum.
Art 311. ANCIENT ART 3 credits
Study of selected early civilizations which contributed to the growth of western tradition in the arts. Concentrated study of the artistic development of the major Mediterranean cultures, terminating with the early Christian era of the fourth century.

Art 312. MEDIEVAL ART 3 credits
Chronological study of the eastern and western aspects of Pagan and Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.

Art 313. THE RENAISSANCE IN ITALY 3 credits
A study of the civilization of the Renaissance with concentration on the architecture, painting, and sculpture of Italy between 1200 and 1550. Stress will be on the works of Giotto, Bramante, Michelangelo, Raphael, Leonardo da Vinci, and Titian.

Art 315. (F) BAROQUE AND ROCOCO ART 3 credits
A study of styles, trends, and major forces in the arts of Western Europe in the 17th and 18th centuries. Baroque splendors from the Baldacchino of Bernini to the Palace of the Sun King. Rococo delights from the Bishop’s Palace at Würzburg to the churches of Vierzehnheiligen and Wies.

Art 377. (S) HISTORY OF GRAPHIC ART 3 credits
Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the La Salle Study Collection and the Philadelphia Museum of Art. Prerequisite: permission of instructor. Written research project.

Art 317. NINETEENTH CENTURY ART 3 credits
A study of the major artistic forces in selected European countries in light of the Social and Industrial Revolutions. Focus on new forms, materials, and techniques.

Art 319. TWENTIETH CENTURY ART 3 credits
A tracing of the divergent influences upon contemporary art in Europe and America from the late 19th century beginnings to the immediate present.

Art 470. RESEARCH TOPICS IN ART HISTORY 3 credits
Topics vary from semester to semester. Required of art history major and open to the qualified general student. Prerequisites: junior standing and permission of instructor.

STUDIO COURSES

Art 350. (F, S) OIL PAINTING 3 credits
Introduction to basic techniques of painting, drawing, and perspective. Preparation of canvas and media. Exercises in indoor and outdoor painting. May be repeated for credit.

Art 352. (F, S) PRINT MAKING 3 credits
Introduction to basic print processes. Relief, intaglio, collograph printing, followed by mixed-media projects. Experimentation encouraged. May be repeated for credit.
MUSIC

Required for Major in Music: 12 courses

• In Music History: 103-104 and four additional courses from the Music History section.
• In Theory and Composition: 105, 106, 214-215, 225, 301.

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in music. Those anticipating graduate work in musicology are also advised to elect courses in German, French, Italian, Latin and Greek as preparation for advanced studies.

The music major is expected to demonstrate a basic keyboard facility. It is desirable that such facility be achieved before entering the program or acquired through private study in the early stages of the program. Further, the music major is to adhere to the following establishment of prerequisites: Music 105 and 106 as prerequisite for other courses in theory and composition; Music 103 and 104 as prerequisite for other courses in music history. Students who feel qualified to take a placement examination in Music 105 and 106 may arrange to do so. Any required theory courses not given at La Salle are taken at Chestnut Hill College.

Music 101. (F, S) D
THE ART OF LISTENING 3 credits
Designed to develop and refine musical perception and systematically to explore the fundamentals of music and their interrelationships. Includes historical overview. Ideally suited to the general student as an introductory course.

Music 102. D
AMERICA'S MUSIC 3 credits
From Plymouth Rock to Woodstock—the cultivated and vernacular traditions in American music. New England psalmody, the Yankee tunesmiths, the camp meetings, minstrelsy, the rise of musical culture in the 19th century, the popular and classical music of the 20th century.

Music 103. (F) D
MAJOR IDEAS IN WESTERN MUSIC I 3 credits
A survey of the principal styles of music in Western civilization from Christian chant to Bach and Handel.

Music 104. (S) D
MAJOR IDEAS IN WESTERN MUSIC II 3 credits
A survey of the principal styles of music in Western Civilization from Haydn and Mozart to the 20th century.

Music 201. D
ANATOMY OF THE OPERA 3 credits
Concentrated study of selected works representing the stylistic and historical development of the opera. Orpheus, Marriage of Figaro, Carmen, Otello, Porgy and Bess.

Music 221. D
TOPICS IN THE HISTORY OF MUSIC 3 credits
Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.
Music 211. (F)  
EIGHTEENTH CENTURY CLASSICAL MUSIC  
3 credits  
The development of the classical style in Western European music from the age of the rococo to the time of Beethoven, with special emphasis upon the contributions of Haydn and Mozart.

Music 212. (S)  
NINETEENTH CENTURY ROMANTIC MUSIC  
3 credits  

Music 213. (S)  
TWENTIETH CENTURY MUSICAL REVOLUTIONS  
3 credits  
The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.

Music 311. (F)  
EARLY MUSIC  
3 credits  
The evolution of sacred and secular music from the early Christian church to the time of Bach. The great periods of vocal music, the creation of new forms, and the development of dramatic and instrumental music.

THEORY and COMPOSITION

For the general student, courses in theory and composition do not carry prerequisites; however, the general student who has not had Music 105 and 106 is advised to use discretion in the selection of other theory and composition courses.

Music 105. (F)  
FUNDAMENTALS OF MUSIC THEORY  
3 credits  
Introduction to the basic theoretical concepts of music: staff notation, calligraphy, scales, key signatures, intervals, chords, rhythm. Elementary ear training stressing the ability to take melodic and rhythmic dictation and to sing a simple melody at sight. No prior knowledge of music necessary.

Music 106. (S)  
THEORY IN PRACTICE  
3 credits  
Creative implementation of the theoretical foundations and principles of musical structures. Prerequisite: ability to read music or permission of instructor.

Music 216.  
TOPICS IN THE THEORY OF MUSIC  
3 credits  
Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

Music 214-215. (F, S)  
HARMONY  
3-6 credits  
Fall: Basic elements of harmony as found in tonal music: chord succession, voice leading, non-harmonic tones, figured bass. Spring: Stylistic analysis of representative works from the baroque through the romantic period, concentrating on the evolution of harmonic language. Creative work in imitation of each style studied. Open to the general student with permission of instructor.

Music 225. (F)  
ORCHESTRATION  
3 credits  
A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.
Music 301. (S)
COUNTERPOINT 3 credits
Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels. Open to the general student with permission of instructor.

APPLIED MUSIC

Music 151. 1 credit
Available to the general student as well as the music major in accordance with the conditions stated below.

Students applying for academic credit for study of an instrument (limited to keyboard, classical guitar, and all instruments of the standard symphony orchestra) or voice must demonstrate the ability to undertake such study at least at an intermediate level. Arrangements to work with a teacher of the applicant’s choice and the financial obligations for such study are the responsibility of the student. At the close of the semester in which the student is applying for credit, the teacher will submit a written report on the student’s progress. The student will demonstrate his or her accomplishment in a proficiency performance arranged by the department and will be graded on a credit/no credit basis. Upon successful demonstration of achievement the student will receive one academic credit, which will count as elective credit and will not be counted toward the major. A permissible total of six credits will be allowed.

Students wishing to apply for applied music credit may register for Music 151 upon approval of the department.

Collegium Musicum
A vocal and instrumental performing ensemble devoted to the study of musical repertory of all periods which is designed for small groups.

FOREIGN LANGUAGES AND LITERATURES

BERNARDT G. BLUMENTHAL, Ph.D., Chairman
Professors: Bernian, Blumenthal, Boudreau, Brownstein, Rudnytzky
Associate Professors: DiMarco, Mall, McCann, Perlecky, Sapone
Assistant Professors: Angerosa, Morocco

Description of major programs follows; for dual majors, greater flexibility in individual programs can be arranged in consultation with departmental adviser.

CLASSICAL LANGUAGES

Required for Major in Classical Languages: 14 courses

- Ten courses in Latin
- Four courses in Greek

GREEK

Greek 101-102. 3-6 credits
ELEMENTARY GREEK
An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.
Greek 201-202. D
INTERMEDIATE GREEK 3-6 credits
Review of elementary grammar; readings of selected prose and poetry.

Greek 301-302. D
GREEK READINGS 3-6 credits
Readings selected to meet the individual needs of the students from Homer, lyric poetry, the Greek New Testament, Plato and the drama. May be repeated for credit.

LATIN

Latin 101-102. D
ELEMENTARY LATIN 3-6 credits
Thorough grounding in forms and vocabulary.

Latin 111-112. D
BASIC REVIEW 3-6 credits
Intensive review of Latin fundamentals, together with basic graded readings.

Latin 201-202. D
INTERMEDIATE LATIN 3-6 credits
Review of elementary grammar; readings of selected prose and poetry.

Latin 301-302. D
LATIN READINGS 3-6 credits
Readings selected to meet the individual needs of the students from Cicero, Livy, Horace, Vergil, Catullus, Ovid, Martial, patristic Latin, medieval Latin, Roman comedy and Latin inscriptions. May be repeated for credit.

RELATED STUDIES:

Classics 211. (F) CLASSICAL MYTHOLOGY 3 credits
A study of the legends of Greece and Rome: what they are, how they have survived, their value to us. The legend of Troy emphasized. Audio-visual presentations, discussions, and research. All readings in English.

Classics 212. (S) CLASSICAL DRAMA 3 credits
Greek and Roman tragedies and comedies in English translation discussed and interpreted in their historical and social environment and compared to modern and contemporary drama. No previous knowledge of Greek and Latin is required.

Classics 311. (F) GREEK MASTERPIECES IN ENGLISH 3 credits
Some significant works in Greek literature read in English translation and interpreted in terms of their original setting. Application made to contemporary problems. No knowledge of Greek required.

Classics 312. (S) LATIN MASTERPIECES IN ENGLISH 3 credits
The more important works in Latin literature read and discussed in terms of the history of the times. Their influence on later literature noted. No knowledge of Latin required.
MODERN LANGUAGES
FRENCH

Required for Major in French: 14 courses

- Ten French courses (two from 400 list)
- Four courses in second language

GENERAL EDUCATION

French 161. (F)  
IDEALS AND IRONIES: MODERN FRENCH LITERATURE IN ENGLISH  
3 credits
The rise of modernism as seen through some of the major works of 19th-century French literature: Stendhal, Flaubert, Nerval, Baudelaire, Rimbaud, Mallarmé, Huysmans and Jarry. Texts in English. Short critical papers.

French 162. (S)  
REVOLT AND REVOLUTION CONTEMPORARY FRENCH LITERATURE IN ENGLISH  
3 credits
A study of man's attempt to deal with despair and inauthenticity in France during the 20th century as seen in some of the major works of the period. Apollinaire, Gide, Breton, Sartre, Beckett, Ionesco, Robbe-Grillet, and Michaux. Texts in English. Short critical papers.

French 101-102.  
ELEMENTARY FRENCH  
3-6 credits
A study of the phonetics and grammar of French with graded work in reading, oral practice, and composition. One required hour per week in the Language Laboratory.

French 201-202.  
INTERMEDIATE FRENCH  
3-6 credits
Review exercises in comprehending, speaking, reading and writing French. Cultural information on France. Weekly assignments in the Language Laboratory.

French 301-302.  
STRUCTURE AND STYLE  
3-6 credits
Review of grammatical principles and their practical application in written exercises and in the translation of standard English prose into French.

French 303-304.  
CONVERSATION AND COMPOSITION  
3-6 credits
Oral and written practice aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation, and fluency.

French 311-312.  
SURVEY OF FRENCH LITERATURE  
3-6 credits
Readings and discussions of selected literary works from the beginnings to 1800 and from 1800 to the present.

French 321-322.  
CIVILIZATION  
3-6 credits
The first semester treats the political, social, intellectual, and artistic developments in France from earliest times to 1870, while the second semester emphasizes these cultural structures as they exist in contemporary French society. Lectures and readings serve as a basis for class discussion in French.

French 401. (S)  
OLD FRENCH LANGUAGE AND LITERATURE  
3 credits
The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi, and the poetry of Villon.
French 411. (F, S)  
SIXTEENTH-CENTURY LITERATURE  
Readings and reports on works of representative authors of the 16th century.  

French 425. (F, S)  
CLASSICAL THEATRE  
A study of the plays of Corneille, Moliere, and Racine.  

French 431. (F, S)  
EIGHTEENTH-CENTURY LITERATURE  
Readings and reports on works of representative authors of the 18th century.  

French 447. (F, S)  
nineteenth-century novel  
A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola, and Huysmans.  

French 453. (F, S)  
MODERN POETRY  
A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.  

French 455. (F, S)  
MODERN THEATRE  

French 457. (F, S)  
MODERN NOVEL  
A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.  

GERMAN  

Required for Major in German: 14 courses  
- German 401, 431, 480 or 481  
- Seven electives in German  
- Four courses in second language  

GENERAL EDUCATION  

German 161. (F)  
THE GERMAN MIND: MODERN GERMAN LITERATURE IN ENGLISH  
An introduction to selected works of prominent German writers of the classical and romantic ages. A composite view of the German mind of the 18th and 19th centuries. Readings from: Goethe, Schiller, Kleist, Buechner and Fontane. Texts in English. Short critical papers.  

German 162. (S)  
THE GERMAN DILEMMA: CONTEMPORARY GERMAN LITERATURE IN ENGLISH  
An introduction to the selected works of prominent German writers of the 20th century. A study of the authors' attempts to restore values to life and their search for authenticity. Readings from: Mann, Kafka, Rilke, Brecht, and Grass. Texts in English. Short critical papers.  

German 101-102.  
ELEMENTARY GERMAN  
An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>German 201-202.</td>
<td>INTERMEDIATE GERMAN</td>
<td>3-6</td>
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<tr>
<td></td>
<td>Review exercises in comprehending, speaking, reading and writing German. Cultural information on German-speaking countries. Weekly assignments in the Language Laboratory.</td>
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<tr>
<td>German 209-210. (S)</td>
<td>TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN</td>
<td>3</td>
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<tr>
<td></td>
<td>Translation of selected scientific and technical articles from contemporary journals in bio-medicine, chemistry, geology, computer science, and physics. Emphasis on the practical aspects of translating: training in use of specialized dictionaries and reference sources.</td>
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<tr>
<td>German 301-302.</td>
<td>CONVERSATION AND COMPOSITION</td>
<td>3-6</td>
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<tr>
<td></td>
<td>Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.</td>
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<tr>
<td>German 311-312.</td>
<td>THEMES IN GERMAN LITERATURE</td>
<td>3-6</td>
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<tr>
<td></td>
<td>Major themes from medieval to modern times (love, death, suffering, political, and social involvement). Practice in conversation and composition. May be repeated for credit.</td>
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<tr>
<td>German 320. (F, S)</td>
<td>STUDIES IN GERMAN CULTURE</td>
<td>3</td>
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<tr>
<td></td>
<td>Analysis of the contemporary culture of the two Germanies: life styles, national characteristics, folk tradition. Emphasis on the Germans’ view of themselves, their view of their recent past. Focus varies from semester to semester. May be repeated for credit.</td>
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<tr>
<td>German 401. (F)</td>
<td>HISTORY OF THE GERMAN LANGUAGE</td>
<td>3</td>
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<td></td>
<td>The German language from its beginning to the present; particularly, the development of sounds, vocabulary, and the formation of standard High German.</td>
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<tr>
<td>German 405. (F, S)</td>
<td>MEDIEVAL LITERATURE</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and discussion of German literature from its beginnings to the end of the medieval period.</td>
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<tr>
<td>German 411. (F, S)</td>
<td>LITERATURE OF THE 15th AND 16th CENTURIES</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and discussion of the literature of the 15th and 16th centuries from the end of the medieval period to the beginnings of the baroque.</td>
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<tr>
<td>German 421. (F, S)</td>
<td>LITERATURE OF THE 17th AND 18th CENTURIES</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.</td>
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<tr>
<td>German 431. (F, S)</td>
<td>THE CLASSICAL AGE</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.</td>
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<tr>
<td>German 441. (F, S)</td>
<td>LITERATURE OF THE 19th CENTURY</td>
<td>3</td>
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<tr>
<td></td>
<td>Study and discussion of the literature of romanticism, realism, and naturalism.</td>
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<tr>
<td>German 451. (F, S)</td>
<td>LITERATURE OF THE 20th CENTURY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study and discussion of modern German literature from 1880 to the present.</td>
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</tbody>
</table>
Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.

ITALIAN

Required for Major in Italian: 14 courses

- Italian 312, 451, 480 or 481
- Seven electives in Italian
- Four courses in second language

Italian 101-102.
ELEMENTARY ITALIAN
An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in Language Laboratory.

Italian 201-202.
INTERMEDIATE ITALIAN
Exercises in composition, grammatical review, and selected readings with a view to introducing the student to the literature and civilization of the country.

Italian 301-302.
LANGUAGE AND STYLE
Training in the use of correct idiomatic Italian and in the practical application of grammatical principles with a view toward improving the student's pronunciation and increasing his active vocabulary. Frequent use of audiovisual aids.

Italian 311-312.
SURVEY OF ITALIAN LITERATURE
A comprehensive study of Italian literature from the Middle Ages to modern times, with comparative references to European literatures.

Italian 320. (F, S)
STUDIES IN ITALIAN CULTURE
Analysis of contemporary Italian culture: life styles, national characteristics, folk tradition. Emphasis on the Italians' view of themselves, their place in and contributions to contemporary European civilization. Focus varies from semester to semester. May be repeated for credit.

Italian 331-332.
READING LIST
Gives students an acquaintance with excerpts of Italian writers from Saint Francis of Assisi to the poets of knighthood (Pulci, Boiardo, Anost, Tasso).

Italian 401. (F, S)
HISTORY OF THE ITALIAN LANGUAGE
Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.

Italian 451. (F, S)
MODERN AUTHORS
Includes a survey of Italian narrative and poetic production in the late 19th century and in the 20th century.
### Italian 480-481

**Seminars** (3-6 credits)

Topics of investigation vary from semester to semester. Readings, reports, and discussions of a selected genre (novel, drama, short story) with special reference to the works of Dante, Leopardi, and Manzoni. Seminar paper.

### Russian

**Required for Major in Russian:** 14 courses

- Russian 301-302 or 303-304, 401-402, Slavic 403-404
- Four Russian or Slavic electives
- Four courses in second language

#### Russian 101-102

**Elementary Russian** (3-6 credits)

A modified audio-lingual approach; regular exercises in Language Laboratory stress fundamental structural features of the contemporary spoken language.

#### Russian 201-202

**Intermediate Russian** (3-6 credits)

Second part of a two-year program based on modified audio-lingual principles. Continued emphasis on Language Laboratory work. Introduction to literature and civilization. Translation of business correspondence and readings in general science.

#### Russian 241-242

**Russian Literature of the 19th Century** (3-6 credits)

Romanticism and realism in Russian literature. Readings from Pushkin, Gribodov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.

#### Russian 245-246

**Soviet Literature** (3-6 credits)

Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn, and others.

#### Russian 301. (F)

**Advanced Grammar and Conversation** (3 credits)

Advanced grammar exercises and conversation. Reading of a Russian newspaper.

#### Russian 302. (S)

**Scientific Russian** (3 credits)

Theory and practice in translating scientific texts. Selected readings in chemistry, physics, mathematics, geology, anatomy, and astronomy.

#### Russian 303-304

**Advanced Readings and Composition** (3-6 credits)

Selected readings of 19th and 20th century Russian prose and verse. Translation of selected scientific articles. Intensive exercises in translating standard English prose into Russian.

#### Russian 401. (F)

**History of the Russian Language** (3 credits)

Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.
Russian 402. (S) OLD RUS' LITERATURE
Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on Igor Tale and the Primary, Kievon, and Galician-Volynian chronicles. The beginnings of fiction.

RELATED STUDIES:

Slavic 320. (S) THE CULTURES OF THE PEOPLES OF THE SOVIET UNION
Lectures and readings on seventeen major Soviet nationalities: the fifteen which have their own Union Republics, plus the Tatars and the Jews. An in-depth view of the territory, demography, culture, media, education, language, and national attitudes of the various peoples of this multinational state.

Slavic 403. (F) UKRAINIAN
The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.

Slavic 404. (S) POLISH
The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

SPANISH

Required for Major in Spanish: 14 courses
- Spanish 311-312, 313
- Seven Spanish electives (two from 400 list)
- Four courses in second language
- Recommended: History 131, 132

GENERAL EDUCATION

Spanish 161. (F) REALITY VS. ILLUSION: HISPANIC LITERATURE IN ENGLISH
Varying facets of a persistent theme of human existence evolve in readings from Lazarillo, and Don Quixote, and selections by Calderon, Cortazar, Borges, and Cela. Texts in English. Short critical papers.

Spanish 162. (S) LIFE AND DEATH: HISPANIC LITERATURE IN ENGLISH
A persistent theme of existentialism is revealed in Celestina and selections by Unamuno, Lorca, Ortega, Fuentes, and Neruda. Texts in English. Short critical papers.

Spanish 101-102. ELEMENTARY SPANISH
Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the Language Laboratory.

Spanish 201-202. (F, S) INTERMEDIATE SPANISH
Review exercises in comprehending, speaking, reading, and writing Spanish. Cultural information on Spanish-speaking countries. Weekly assignments in the Language Laboratory.
Spanish 301-302. D  
ADVANCED CONVERSATION AND COMPOSITION 3-6 credits  
Includes intensive oral and written exercises with a view towards improving the student’s speaking and writing skills. Students make frequent use of audio aids.

Spanish 307. (F, S) D  
COMMERCIAL SPANISH 3 credits  
Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings, and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.

Spanish 311-312. D  
SURVEY OF SPANISH LITERATURE 3-6 credits  
An introduction to the study of peninsular Spanish literature from the Middle Ages to the present. Readings and discussions in Spanish.

Spanish 313. (F, S) D  
SURVEY OF SPANISH AMERICAN LITERATURE 3 credits  
Reading and discussion of works from the colonial period to the 20th century, with special emphasis upon contemporary Latin American literature.

Spanish 321. (F) D  
SURVEY OF SPANISH CIVILIZATION 3 credits  
A cultural and historic study of Spain’s past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.

Spanish 322. (S) D  
SURVEY OF SPANISH AMERICAN CIVILIZATION 3 credits  
A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the vicerealties, and the establishment of independent nations; course concludes with a thorough study of today’s Latin America.

Spanish 350-351. D  
INTRODUCTION TO BILINGUAL BICULTURAL STUDIES 3-6 credits  
Linguistic and cultural problems in teaching English to speakers of other languages. Emphasis on materials, techniques and attitudes of teachers and students. Special emphasis on the vocabulary and idiom of the Caribbean. Cultural survey of present day problems in Puerto Rico and other Caribbean countries.

Spanish 401. (F) D  
HISTORY OF THE SPANISH LANGUAGE 3 credits  
Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.

Spanish 405. (F, S) D  
LITERATURE OF THE MIDDLE AGES 3 credits  
Emphasis is placed on such works as Cantar de Mio Cid, Poema de Fernan Gonzalez, and Amadis de Gaula; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.

Spanish 411. (F, S) D  
RENAISSANCE LITERATURE 3 credits  
The works of Boscán, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as Tirant lo Blanc, Celestina, and Lazarillo de Tormes form the basis of this period of literary activity.
Spanish 415. (F, S)  
DRAMA OF THE GOLDEN AGE  
Readings, reports, and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon, and others.

Spanish 419. (F, S)  
CERVANTES  
Readings and discussions of Don Quixote. Other important works by Cervantes also discussed.

Spanish 442. (F, S)  
ROMANTICISM  
A study of the early 19th century which analyzes works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.

Spanish 443. (F, S)  
POETRY OF THE 19th AND 20th CENTURIES  
Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.

Spanish 448. (F, S)  
THE SPANISH AMERICAN NOVEL  
Introduces students to the development of the contemporary Latin American novel through an analysis of the sociological and literary aspects of the work of various leading authors. Special attention to works by and about women. Class discussions and examinations in Spanish.

Spanish 457. (F, S)  
THE SPANISH NOVEL OF THE 19th AND 20th CENTURIES  
Reading and discussion of Spanish authors, their ideology and philosophies: Fernan Caballero, Galdos, Valera, Pio Baroja, Alarcon, Delibes, and Goytisolo.

Spanish 480. (F, S)  
SEMINAR  
Topics of investigation vary from semester to semester.

COMPARATIVE LITERATURE

Comparative Literature 101. (F)  
SURVEY OF WESTERN LITERATURE I  
Lectures on masterpieces of western literature from its beginnings to the end of the classical period. Course investigates the western author’s attempt to establish a consistent world view and the emergence of specific literary forms: the epic, the narrative, the drama. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.

Comparative Literature 103. (S)  
SURVEY OF WESTERN LITERATURE II  
Lectures on masterpieces of western literature from the end of the classical period to the present day. Course investigates relationship of the modern author’s reality and the transformations in his world view and in specific literary forms. Discussion of comparative aspects of English, French, German, Italian, Russian, and Spanish literatures. Team-taught.
GEOLOGY
H. A. BART, Ph.D., Chairman
Associate Professors: Bart, Hoersch

Required for Major in Geology: 15 courses

- Geology 101, 102, 202, 203, 204, 205, 302, 303, 401, plus three elective geology courses at the 200 level or above.
- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, computer science, Russian, German, or French.

Geology 101. (F)  
PHYSICAL GEOLOGY  
3 credits
An introduction to the various physical processes that constantly change the interior and the surface of the earth, including weathering, earthquakes, volcanoes, glaciation, marine erosion, and mountain building. Two hours lecture, two hours laboratory and field trips.

Geology 102. (S)  
HISTORICAL GEOLOGY  
3 credits
An introduction to the evolutionary physical and biological processes that have modified the earth through geologic time. Two hours lecture, two hours laboratory and field trips.

Geology 103-104. (F, S)  
DESCRIBITIVE ASTRONOMY I & II  
3-6 credits
The celestial sphere and its coordinates; the telescope and other astronomical instruments, time and the calendar; the solar system; the stars—their distances, motion, spectra, luminosity, and development; binary and multiple star systems, nebula; and the external galaxies. Geology 103 is not a prerequisite for Geology 104.

Geology 105. (S)  
PHYSICAL OCEANOGRAPHY  
3 credits
A study of physical oceanography with emphasis on tides, currents, waves, chemistry of sea water, and geology of ocean basins. Three hours lecture.

Geology 202. (F)  
MINERALOGY AND CRYSTALLOGRAPHY  
4 credits
The identification of minerals using physical characteristics. An introduction to crystal chemistry and symmetry. Three hours lecture, two hours laboratory. Prerequisites: Geology 101, 102.

Geology 203. (S)  
OPTICAL MINERALOGY  
4 credits
An introduction to the theory of light transmission in crystals. Use is made of the polarizing microscope to study light phenomena in minerals. Lab is concerned with identification of minerals using thin section and oil immersion techniques. Two hours lecture, four hours laboratory. Prerequisite: Geology 202.

Geology 204. (S)  
PETROLOGY  
4 credits
Descriptive classifications of textures and processes of igneous, metamorphic, and sedimentary rocks with emphasis on hand specimen identification. Two hours lecture, four hours laboratory. Prerequisite: Geology 202.

Geology 205. (F)  
PALAEONTOLOGY  
3 credits
A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, two hours laboratory.
Geology 301, (S)  
STRATIGRAPHY  
3 credits  
An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, two hours laboratory.

Geology 302, (F)  
SEDIMENTOLOGY  
4 credits  
Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory.

Geology 303, (F)  
STRUCTURAL GEOLOGY  
3 credits  
Description and mechanics of structural features such as: folds, joints, faults, lineations and foliations features. Laboratory is concerned with problem solving using geometric and stereographic techniques, cross-sections, and the examination of tectonic forces that cause deformation. Two hours lecture, three hours laboratory. Prerequisites: Mathematics 113, Geology 101, 102, 202, 204.

Geology 304, (S)  
GLOBAL TECTONICS  
3 credits  
A review of the literature on the theory of plate movement and study of the dynamic earth system with implications as to the origins of magma, earthquakes, and sea-floor spreading. Three hours lecture, one hour laboratory. Prerequisites: Geology 101, 102.

Geology 305, (S)  
GEOCHEMISTRY  
3 credits  
Discussions of the geochemical behavior of the elements comprising the earth. A look at the chemical processes involved with weathering, oxidation, and the crystal chemistry of solids with application to the formation of stable compounds (phase theory). Three hours lecture. Prerequisites: Chemistry 111-112; Geology 101, 102, 202.

Geology 401, (F)  
IGNEOUS PETROLOGY  
4 credits  
Classification, examination, and analysis of igneous rocks. Petrographic analysis of rock suites in thin section will be used to determine the cooling histories of the rocks. Two hours lecture, four hours laboratory, field trips. Prerequisites: Geology 202, 203, 204; Chemistry 111, 112.

Geology 402, (S)  
METAMORPHIC PETROLOGY  
4 credits  
A review of the metamorphic facies concept with a look at the physical, thermodynamic, and geochemical processes concerned with mineral recrystallization. Detailed thin-section examination of the various metamorphic zones. Two hours lecture, four hours laboratory, field trips. Prerequisites: Geology 202, 203, 204; Chemistry 111, 112.

Geology 403, (S)  
ECONOMIC GEOLOGY  
3 credits  
The study of ore deposits associated with igneous, metamorphic, and sedimentary rocks. Emphasis on classical ore deposits. A survey of the various origins for metallic and non-metallic deposits. Three hours lecture. Prerequisites: Geology 202, 204; Chemistry 111, 112.

Geology 470, (F)  
TOPICS IN ADVANCED GEOLOGY  
3 credits  
Selected topics dealing with contemporary developments in geology.

Geology 480, (F, S)  
RESEARCH  
1-4 credits  
Supervised research in geology. Can be elected in fall, spring, or summer. Permission of chairman required.
HISTORY

GEORGE B. STOW, Ph.D., Chairman
Professors: O’Grady, Rossi, Stow
Associate Professors: Cziraky, Fair, Hennessy, Labunka, McCarthy

Required for Major in History: 14 courses

• Three from each section, plus a two-semester seminar.

SECTION I:
FOUNDATION COURSES
Designed to provide a broad overview of the past. Viewed as basic foundation courses for all students interested in the past.

History 111.
HISTORY OF WESTERN CIVILIZATION TO 1500
A survey of cultural achievements of ancient civilizations of the Mediterranean basin, as well as of the medieval Europe which became part of the heritage of Western or European civilization.

History 112.
HISTORY OF WESTERN CIVILIZATION SINCE 1500
A survey of European history from Renaissance to modern times. Development of national states and other modern institutions in Europe discussed. Socio-economic changes within the European society considered as a background.

History 113-114.
AN INTRODUCTION TO THE AFRO-ASIAN WORLDS, I & II
An examination of the social, economic, political, and cultural institution of Asia, the Moslem world, tropical Africa, and South Africa.

History 115.
HISTORY OF THE UNITED STATES TO 1865
A survey of the American people from colonial days to the Civil War.

History 116.
HISTORY OF THE UNITED STATES SINCE 1865
A survey of the American people with particular emphasis upon industrialization, social change, and the growth of the nation as a world power.

SECTION II:
CHRONOLOGICAL SURVEYS
Designed to provide a detailed examination of a more limited historical period.

History 131.
LATIN AMERICA THE COLONIAL PERIOD
A survey that treats the Inca, Aztec, and Maya cultures, African influences as well as Spanish and Portuguese contributions to the development of Latin America.

History 132.
REVOLUTION AND SOCIAL CHANGE IN LATIN AMERICA
Revolutionary movements in Latin America from Independence to the present with special emphasis on Castro, Allende, Peron, Zapata, Vargas, and the military dictators.

History 135.
EGYPTIAN AND GREEK CIVILIZATIONS
A survey that stresses the development of Greek civilization until the death of Alexander the Great.
History 136.  
THE HELLENISTIC AND ROMAN WORLDS  
3 credits  
A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D.

History 138.  
THE EARLY MIDDLE AGES  
3 credits  
A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures.

History 139.  
THE LATER MIDDLE AGES  
3 credits  
A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe.

History 141.  
MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS  
3 credits  
A survey of Europe centered on the political and social development in Germany and France and the impact of Russia’s rise to world power.

History 142.  
MODERN EUROPE SINCE 1870: THE AGE OF VIOLENCE  
3 credits  
A detailed survey of Europe in the last hundred years.

History 144.  
TOPICS IN AFRICAN HISTORY  
3 credits  
An account of the empires, tribes, and development of Africa from earliest times to the present.

History 146.  
EAST ASIA IN THE MODERN WORLD  
3 credits  
Changes in Modern Asia as a result of the rise of industrialism, urbanism, nationalism, and Western influence.

History 148.  
SLAVIC AND EASTERN EUROPEAN HISTORY  
3 credits  
An examination of the rise of Slavic civilization and the present problems of Eastern Europe.

SECTION III:  
TOPICS COURSES  
Special in-depth analysis of limited themes and topics.

History 224.  
HISTORY OF PHILADELPHIA  
3 credits  
The historical development of Philadelphia from colonial times to the present, emphasizing the way people lived, the impact of transportation upon city growth, and the changing nature of industrialization. Lectures combined with field trips. Cost of field trips requires an additional fee of $40.00.

History 225.  
IMPERIALISM IN THE MODERN WORLD  
3 credits  
A study of the expansion of Western nations into the world of Asia and Africa in the 19th century, and the contraction of Western influence in these areas in the 20th century.

History 228.  
WOMEN AND HISTORY  
3 credits  
The history of women and their changing role and position in Western Europe from the Classical Period to the 20th century. Particular attention to the development of primary institutions such as the family and motherhood.
History 229. THE AMERICAN WOMAN 3 credits
An in-depth analysis of the experience of women in American culture. Special attention to the women's rights movement, women and the law, and the unique challenges facing black women.

History 231. AMERICA'S MILITARY PAST 3 credits
The impact of the American military establishment upon American society, and the formation of defense strategy and foreign policy.

History 233. THE AMERICAN IMMIGRANT 3 credits
The history of immigration to America and the ethnic impact upon American institutions.

History 237. THE BLACK EXPERIENCE IN AMERICA 3 credits
The main themes in black history from the African experience to the present with special attention given to slavery, protest movements, civil rights, and black achievement.

History 240. TOPICS IN MODERN HISTORY 3 credits
An examination of selected topics illustrating the political, social, and cultural history of the modern world.

History 242. HISTORY OF THE WESTERN MOVEMENT IN AMERICA 3 credits

History 244. BIOGRAPHICAL HISTORY 3 credits
An investigation of important historical events through the role of individual men and women in history. Stresses guided research.

History 247. PRESIDENTIAL POLITICS: ROOSEVELT TO REAGAN 3 credits
Historical analysis of presidential campaigns from 1900 to 1980, stressing the evolution of political techniques, issues, political parties, and presidential personalities.

History 249. DIRECTED READINGS 3 credits
Readings of certain basic books relating to a specific historical topic, theme, or era; assignments discussed in seminar-tutorial fashion.

SECTION IV:
NATIONAL COURSES
A detailed examination of specific eras in national histories. May be taken for distribution with the approval of the chairman.

History 302. THE AMERICAN REVOLUTION 3 credits
An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements.

History 313. JEFFERSONIAN-JACKSONIAN DEMOCRACY 3 credits
A detailed analysis of the development of the American political system in an increasingly democratic society.
History 315.  
THE CIVIL WAR ERA  
3 credits  
A detailed study of the disruption of the Union, stressing the causes, personalities, and human drama of the military events leading to Appomattox.

History 325.  
AMERICA AS A WORLD POWER, 1939-1979  
3 credits  
The growth of government involvement at home and abroad since 1939; reading and analysis of original documents.

History 329.  
THE EMERGENCE OF MODERN AMERICA, 1877-1913  
3 credits  
The nationalization of American life, including the building of the railroad network, the rise of industry, the labor movement, immigration, and urbanization.

History 340.  
MODERN IRELAND  
3 credits  
An examination of the major political, social, and economic developments in Ireland since the Famine of 1845.

History 347.  
THE UNITED STATES AND EAST ASIA  
3 credits  
The interrelationship of the United States and the East Asian world in the modern period.

History 352.  
REVOLUTIONARY RUSSIA FROM 1917 TO THE PRESENT  
3 credits  
A survey of internal conflicts leading to the Revolution and its aftermath.

History 358.  
RECENT BRITAIN: EMPIRE TO WELFARE STATE  
3 credits  
A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life.

SECTION V:  
SEMINARS  
Required of all history majors. These courses are designed to provide the student with an exposure to the methodology of historical research. Methodology is offered in the fall semester, research seminars in the spring.

History 480-485.  
SEMINARS  
3-6 credits  
Methodological and research courses.
INTERNATIONAL STUDIES CONCENTRATION

Directed by: DR. JOSHUA BUCH

Designated as a minor available to all students regardless of the major.

Required:

Category I: Two of the following General Education courses:
- English 164, 165
- French 161, 162
- German 161, 162
- Spanish 161, 162

Category II: Two of the following Area Distribution courses:
- English 312
- Economics 412
- History 113, 114, 132, 142, 144, 146, 148*, 225*, 347*, 352*, 358*
- Political Science 104, 234, 235, 238
- Sociology 208, 213, 308
- Foreign Language**: German, French, Russian, Spanish, Italian
- Religion 240, 241, 244

Category III: Three of the following courses***:
- Economics 431 or 230
- Political Science 220
- Management 481
- Finance/Marketing 403

*These courses can be taken only upon the approval of the Director.
**It is strongly recommended that students take a foreign language at an appropriate level.
***These courses have some prerequisites; please see course descriptions

MATHMATICAL SCIENCES

SAMUEL J. WILEY, Ph.D., Chairman
Professors: Albright, McCarty
Associate Professors: Hofmann, Longo, O’Neill, Quinn, Wiley
Assistant Professors: Andrilli, Kirsch, Mooney, McHugh, Pomerance, Turk, Van Rossum
Instructors: Dondero, Elliott, Hoover, Malseed, McManus
Lecturer: Scheiter

Required for Major in Mathematical Sciences: 15 courses

There are three major programs: computer science, mathematics, and mathematics-education. The choice of program should depend on career objectives and personal interests. If there are any questions the student should consult with the department chairman or departmental adviser.

Mathematics:
Mathematics 120, 221, 222, 240, 321, 341; Computer Science 150, Physics 105-106 or 111-112, and six mathematics courses from Section B.
Computer Science:
Mathematics 120, 221, 240, Computer Science 150, 153, 254, 257; four computer science courses chosen from Section D; two approved courses in probability and statistics; and two courses chosen from the following: computer science Section D; MIS 301, 302, 401; Mathematics 222, 321, 341, 421; Philosophy 325; Physics 251, 353; computer science Section E (only with approval of chairman).

Mathematics-Education (11 courses):
Mathematics 120, 221, 222, 240, 321, 330, 341; Computer Science 150, Physics 105-106 or 111-112, one mathematics course from Section B and courses specified by the Education Department.

Computer Science-Mathematics (Dual major requiring approval of dean and department chairman): Mathematics 120, 221, 222, 240, 321, 341, 410, 411; Computer Science 150, 153, 254, 257; four computer science courses from Section D; Physics 105-106; and two mathematics courses from Section B.

SECTION A:

Mathematics 101. (F)
INTERMEDIATE ALGEBRA 3 credits
Algebraic operations, linear and quadratic equations, exponents and radicals, elementary functions, graphs, systems of linear equations. Note: Not to be taken to fulfill distribution or major requirements. Students who have other college credits in mathematics must obtain permission of the department chairman to enroll in this course.

Mathematics 111. (F, S)
INTRODUCTION TO CALCULUS 3 credits
Fundamentals of differential calculus, concentrating on algebraic, exponential, and logarithmic functions with applications of calculus to the management and social sciences. Intended for business and liberal arts majors who have had at least two years of high school algebra.

Mathematics 112. (F, S)
CALCULUS AND FINITE MATHEMATICS 3 credits
Continuation of Mathematics 111. Topics include integral calculus, permutations, combinations, elementary probability, and linear systems and matrices. Prerequisite: Mathematics 111.

Mathematics 113. (F)
ALGEBRA AND TRIGONOMETRY 4 credits
Sets: the real number system; linear systems; matrices; logarithmic, exponential, and trigonometric functions; theory of equations. A knowledge of elementary trigonometry is assumed.

Mathematics 120. (F, S)
CALCULUS AND ANALYTIC GEOMETRY I 4 credits
Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing; velocity, and acceleration; integration with applications to areas, volumes, surfaces, and work; the fundamental theorem of the calculus. Prerequisite: Mathematics 113 or equivalent in secondary school mathematics.

Mathematics 221. (F, S)
CALCULUS AND ANALYTIC GEOMETRY II 4 credits
Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates. Prerequisite: Mathematics 120.

Mathematics 222. (F, S)
CALCULUS AND ANALYTIC GEOMETRY III 4 credits
Vectors; vector functions; partial differentiation; multiple integration; infinite series; Taylor expansions. Prerequisite: Mathematics 221.
Mathematics 240. (F, S)
LINEAR ALGEBRA 3 credits
Systems of linear equations; matrices; determinants; real vector spaces, subspaces; span, linear independence; basis and dimension; Gram-Schmidt process; linear transformations; change of basis; eigenvalues and eigenvectors; diagonalization; applications.

Mathematics 321. (F)
ADVANCED CALCULUS 3 credits
Calculus of vector valued functions; Green, Gauss, and Stokes theorems; infinite series. Prerequisites: Mathematics 222, 240, or permission of instructor.

Mathematics 341. (F)
ABSTRACT ALGEBRA 3 credits
Sets and mappings; groups, rings, fields, and integral domains; substructures and quotient structures; homomorphisms and isomorphisms; abelian and cyclic groups; symmetric and alternating groups; polynomial rings. Prerequisite: Mathematics 240 or permission of instructor.

SECTION B:

Mathematics 322. (S)
DIFFERENTIAL EQUATIONS 3 credits
Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: Mathematics 222.

Mathematics 330. (F 1986)
MODERN GEOMETRIES 3 credits
Topics from Euclidean geometry, projective geometry, the classical non-Euclidean geometries, recent developments in geometry. Prerequisite: Mathematics 240.

Mathematics 410. (F 1985, 1987)
PROBABILITY AND STATISTICS I 3 credits
Sample spaces and probability measures; combinatorics; conditional probability and independence; random variables; densities and distributions; functions of a random variable; expected value; variance; Chebyshev’s inequality; correlation coefficient; laws of large numbers; central limit theorem; applications to random walk. Prerequisite: Mathematics 222.

Mathematics 411. (S 1986, 1988)
PROBABILITY AND STATISTICS II 3 credits

Mathematics 421. (S 1987)
NUMERICAL ANALYSIS 4 credits
Basic concepts: interpolation and approximations; summation and finite differences; numerical differentiation and integration; roots of equations. Prerequisites: Mathematics 222, Computer Science 150 or 151.

Mathematics 422.
PARTIAL DIFFERENTIAL EQUATIONS 3 credits
One dimensional wave equation; classification of linear second-order partial differential equations in two variables, some properties of elliptic and parabolic equations, separation of variables, Fourier series, Sturm-Liouville theory, Bessel functions. Prerequisite: Mathematics 322.

Mathematics 423.
REAL VARIABLES 3 credits
Real number system; Lebesgue measure; Lebesgue integration; differentiation; general measure and integration theory. Prerequisite: Mathematics 321.
Mathematics 424. (S 1986)  
COMPLEX VARIABLES  
3 credits  
Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: Mathematics 321 or permission of instructor.

Mathematics 430. (S 1987)  
TOPOLOGY  
3 credits  
Topological spaces; subspaces, product spaces, quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: Mathematics 341 or permission of instructor.

Mathematics 470, 471, 472, 473.  
SELECTED TOPICS IN MATHEMATICS  
3 credits  
An introductory course to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term.

COMPUTER SCIENCE

SECTION C:

Computer Science 150. (F, S)  
INTRODUCTION TO COMPUTER SCIENCE IN SCIENCE AND MATHEMATICS  
D  
3 credits  
Programming in PASCAL, including data representation, control structures, Boolean and character variables, procedures, functions, arrays. Development of algorithms for problem solution with an emphasis on mathematical-scientific applications. Recommended for science, mathematics, and computer science majors. Prerequisite: Mathematics 113 or 120 (or taken concurrently).

Computer Science 151. (F, S)  
INTRODUCTION TO COMPUTER SCIENCE IN BUSINESS ADMINISTRATION  
D  
3 credits  
Programming in BASIC, with an emphasis on business applications, and computer solution of several data processing problems. Survey of computers, languages, and systems. Data representation; branching, looping; arrays and files. Introduction to use of a spreadsheet package. Recommended for business and liberal arts majors. Prerequisite: One semester of college mathematics or taken concurrently).

Computer Science 153. (F, S)  
ALGORITHMS AND DATA STRUCTURES  
D  
3 credits  
Continuation of Computer Science 150. Introduction to elementary data structures in PASCAL: arrays, packed arrays, records, sets, files, stacks, queues, linked lists, binary trees. Sorting and searching algorithms; recursion. Prerequisite: Computer Science 150.

Computer Science 154. (S 1986)  
COBOL IN BUSINESS DATA PROCESSING  
D  
3 credits  
Review of computer concepts, problem solving, and program documentation. Study and use of COBOL language in several case studies of commercial data processing applications. Emphasis on structured programming, documentation, problem analysis, file processing, and organization. This is a terminal course designed for business majors. Prerequisite: Computer Science 151.

Computer Science 254. (F, S)  
FILE AND DATA MANAGEMENT SYSTEMS  
D  
3 credits  
Introduction to COBOL language. File types and file management. Introduction to sequential, indexed sequential, and random-access file structures. Prerequisite: Computer Science 153 or permission of instructor.
Computer Science 257. (F, S)
COMPUTER STRUCTURE AND ASSEMBLY LANGUAGE 3 credits
Introduction to computer structure and architecture with programming assignments done in assembly language. Computer structure and machine language, assembly language, addressing techniques, macros, file input/output, subroutines, recursion, interrupts, error handling. Prerequisite: Computer Science 153.

SECTION D:

Computer Science 354. (F)
DATA STRUCTURES 3 credits
An in-depth treatment of a variety of data structures and their associated algorithms. Stacks, queues, arrays and their address mapping functions. Linear lists, list operations, sequential and linked storage allocation, and garbage collection. Trees, binary trees, tree operations, and use of trees in sorting and searching. Multi-linked structures. Dynamic storage allocation; files and file structures; hash codes and comparison of search methods. Prerequisite: Computer Science 153.

Computer Science 355. (F)
DISCRETE STRUCTURES 3 credits
Review of set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; Boolean algebra and propositional logic; applications of these structures to various areas of computer science. Prerequisite: Computer Science 153, Mathematics 240.

Computer Science 356. (S)
PROGRAMMING LANGUAGES 3 credits
Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, binding, and subprograms; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. Prerequisites: Computer Science 254, 257.

Computer Science 357. (F)
ASSEMBLERS, LOADERS AND COMPILERS 3 credits
Macros and their use. Structure and function of assemblers, linking loaders, and compilers. Program subroutine linkage, parameter passing and binding. Syntax graphs and parsers. Students will design and program several examples. Prerequisite: Computer Science 257.

Computer Science 358. (S)
COMPUTER ARCHITECTURE 3 credits
General computer structure. Basic logic design: gates, flip-flops, registers, data and address buses. Coding: encoders, decoders, converters. Architecture: communication among large scale computer components, hardware implementation of instructions. Study of a simple computer system. Prerequisite: Computer Science 257 or concurrently.

Computer Science 454. (F)
ADVANCED DATA PROCESSING AND DATA BASE MANAGEMENT 3 credits
Data base system architecture — data structures, storage structures, and data languages. Alternate approaches to data base management systems — relational approach, hierarchical approach, network approach. Data base security and integrity. Query processing. Prerequisite: Computer Science 254.

Computer Science 455. (S)
FORMAL LANGUAGES AND AUTOMATA THEORY 3 credits
Formal languages and their description by grammars and automata: regular, context-free, context sensitive, and unrestricted languages. Deterministic and non-deterministic machines. Finite state machines and their applications. Theory of translation, parsing, LL(K), LR(K) and precedence grammars. Prerequisite: Computer Science 355 or Mathematics 341.
Computer Science 457. (S)
OPERATING SYSTEMS
3 credits
Principles and concepts of process and resource management in operating systems. I/O programming, interrupt mechanism; memory management; processor management, scheduler, traffic controller; device management and information management and file systems. Concepts will be illustrated in the context of modern computers. Prerequisite: Computer Science 357.

SECTION E:

Computer Science 470, 471, 472, 473,
SELECTED TOPICS IN COMPUTER SCIENCE
3 credits
An introductory course to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term.
Military Science

Enrollment in 100 and 200 level Military Science courses is closed to seniors and open only to juniors with permission of the department chairperson. See page 00 for further information.

Military Science 101, (F, S)
MILITARY SCIENCE I, THE HISTORY OF MILITARY ART
The art of war from ancient times to the present. A study of military operations and the evolution of military theory and institutions. One hour leadership laboratory.

Military Science 102, (S)
MILITARY SCIENCE I, AMERICAN MILITARY HISTORY
Examines the how and why of American involvement in wars from the Revolution to Vietnam. One hour leadership laboratory.

Military Science 201, (F, S)
MILITARY SCIENCE II, MILITARY GEOGRAPHY
The estimate of national power and the role of geopolitics examined in the framework of American military operations and the national security structure of the U.S. One hour leadership laboratory.

Military Science 202, (S)
MILITARY SCIENCE II, MILITARY GEOGRAPHY (Continued)
A study of tactical military geography to include a study of map reading and geomorphology. Class discusses and practices the essence of orienteering. One hour leadership laboratory.

Military Science 301, (F)
ADVANCED MILITARY SCIENCE III, MILITARY LEADERSHIP
Introductory course in leadership examining the principles of leadership. Includes a case study of the junior army leader, his roles and responsibilities. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

Military Science 302, (S)
ADVANCED MILITARY SCIENCE III, MILITARY LEADERSHIP (Continued)
Analyzes the role of the leader by examining small unit operations of an infantry platoon. After studying the theory of operations, students are placed in leadership positions and given situations to analyze. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

Military Science 401, (F)
ADVANCED MILITARY SCIENCE IV, PRINCIPLES OF MILITARY MANAGEMENT
Analyzes the principles of management by use of case studies. Stresses the art of communication for success in management. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

Military Science 402, (S)
ADVANCED MILITARY SCIENCE IV, PRINCIPLES OF MILITARY MANAGEMENT (Continued)
Management by the junior officer. Includes command and staff responsibilities and relationships, ethics, military law, logistics, maintenance, and administration. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.
MUSIC
(See Fine Arts.)

NURSING
GLORIA F. DONNELLY, R.N., M.S.N., Chairman
(See Evening Division Bulletin for listing of courses.)

PHILOSOPHY
MICHAEL KERLIN, Ph.D., Chairman
Professors: Kerlin, Mihalich
Associate Professors: Dallery, Fitzgerald, Lashchyk, Strosser, Sullivan
Assistant Professors: Fallon, Macoretta, Phillips

Required for Major in Philosophy: 10 courses

- Philosophy 207 or 325; 311, 326, 327, 328, 416, 480.
- Any three courses above the 100 level.

GENERAL EDUCATION
The student must take one course in Series A and one course in Series B. The course in Series A must precede the one in Series B. An effort is made to introduce the student to the basic problems and methods of philosophy as well as to some texts from Plato or Aristotle.

SERIES A

Philosophy 161. (F, S)
HUMAN NATURE AND HUMAN DESTINY 3 credits
A study of man in himself and his relation-ship to others and to the world. Themes discussed include human freedom and human love; alienation; and human destiny.

Philosophy 162. (F, S)
FOUNDATIONS OF MORAL LIFE 3 credits
A study of philosophical interpretations of moral life and their application to specific problems. Themes discussed include the nature of commitment and responsibility; the problem of conscience and moral law; the character of moral judgment; and the notion of the common good.

Philosophy 164. (F, S)
CRITICAL THINKING 3 credits
Aims at developing the skill of analyzing, interpreting, and criticizing arguments from a variety of disciplines. Topics include: clarification of concepts, distinguishing between conclusions and reasons for conclusions, evaluation of arguments, and the recognition of fallacies.

SERIES B

Philosophy 166. (F, S)
REASON AND REALITY 3 credits
A study of the basic relationships between thought and reality. Themes discussed include skepticism and truth; rationality and selfhood; and knowledge and the various manifestations of existence.

Philosophy 167. (F, S)
PHILOSOPHICAL APPROACHES TO GOD 3 credits
A study of philosophical positions relating to questions about the existence of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.

Philosophy 169. (F, S)
WORK AND CULTURE 3 credits
A philosophical consideration of the relationship between work and other dimensions of human life. Topics include: work and society, work and rationality, work and morality, work and play, work and creativity, work and alienation.
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<tr>
<th><strong>Philosophy 201. (F, S)</strong></th>
<th><strong>ART AND CREATIVITY (AESTHETICS)</strong></th>
<th>3 credits</th>
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<tr>
<td>A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.</td>
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<tr>
<th><strong>Philosophy 202. (F)</strong></th>
<th><strong>EASTERN PHILOSOPHY</strong></th>
<th>3 credits</th>
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<tr>
<td>A study of the primary streams of Hindu and Chinese thought as they originated and as they attract western thinkers of today. Jainism, Samkhya-Yoga, Vedanta, Early Buddhism, Transcendental Buddhism, Confucianism, Taoism, forms of Chinese Buddhism, and Zen will be given most attention.</td>
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<tr>
<th><strong>Philosophy 203. (S)</strong></th>
<th><strong>AMERICAN PHILOSOPHY</strong></th>
<th>3 credits</th>
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<tr>
<td>Broadly conceived as American intellectual history, the history of ideas that shape the American angle of vision: from the Puritan’s errand into the wilderness to the birth of the Great Yankee, from democracy as the “last, best hope of Earth” to William James’ courage to believe.</td>
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<tr>
<th><strong>Philosophy 204. (S)</strong></th>
<th><strong>RUSSIAN AND EAST EUROPEAN PHILOSOPHY</strong></th>
<th>3 credits</th>
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</thead>
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<tr>
<td>A study of such thinkers as Skovoroda, Tolstoy, Lenin, Stalin, Berdyaev and others. The relationship of Soviet Marxism and dialectical materialism to ethics, art, and science; human rights, national rights, and the problems of minorities.</td>
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<tr>
<th><strong>Philosophy 205. (F)</strong></th>
<th><strong>PHILOSOPHY OF COMMUNISM</strong></th>
<th>3 credits</th>
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<tr>
<td>An historical and systematic study of the writings of Karl Marx emphasizing the Hegelian origins of his critique of capitalism, the problem of ideology, the Marxian view of social science, and the development of Marxism as theory and practice at the hands of Engels, Lenin, and Stalin.</td>
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<tr>
<th><strong>Philosophy 206. (F)</strong></th>
<th><strong>SOCIAL PHILOSOPHY</strong></th>
<th>3 credits</th>
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<tr>
<td>Introduces the student to modern and traditional views concerning the origin of society and of government, and the foundation of political obligation. Topics considered will be in the state of nature, the social compact, natural law, property.</td>
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<tr>
<th><strong>Philosophy 207. (F)</strong></th>
<th><strong>CLASSICAL LOGIC</strong></th>
<th>3 credits</th>
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<tbody>
<tr>
<td>A study of traditional, or Aristotelian, logic stressing the major forms of inference found in ordinary discourse. It includes a consideration of the material or non-formal fallacies in deductive and inductive reasoning.</td>
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<tr>
<th><strong>Philosophy 208. (S)</strong></th>
<th><strong>THE PHILOSOPHY OF HISTORY</strong></th>
<th>3 credits</th>
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<tr>
<td>A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered.</td>
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<tr>
<th><strong>Philosophy 209. (S)</strong></th>
<th><strong>THE PHILOSOPHY OF THOMAS AQUINAS</strong></th>
<th>3 credits</th>
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<tr>
<td>A study of the philosophical problems which arose in the Middle Ages and of the solutions proposed by Thomas Aquinas. Texts principally from <em>Essence and Existence</em> and the <em>Summa Theologiae</em>.</td>
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<tr>
<th><strong>Philosophy 210. (F, S)</strong></th>
<th><strong>EXISTENTIALISM</strong></th>
<th>3 credits</th>
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</thead>
<tbody>
<tr>
<td>An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, Sartre, and Merleau-Ponty. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.</td>
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</tbody>
</table>
Philosophy 212. (S)  
ETHICS: THEORIES AND ISSUES  
3 credits  
Intended to stimulate and help the student to do clear, precise, philosophical thinking about ethical questions through the reading and discussion of some of the primary philosophical texts that influenced the development of western moral thought; a more specialized course than Philosophy 162. Recommended for all philosophy majors.

Philosophy 213. (F)  
PHILOSOPHY OF SPORTS  
3 credits  
A philosophical investigation of sports and athletics and their significance as a basic human experience. Topics include sports and the achievement of human excellence; sports as a basis of social and cultural structure; and the analysis of sports in philosophical movements such as Marxism and existentialism.

Philosophy 221. (S)  
BUSINESS ETHICS  
3 credits  
Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management decision making and to the ethical problems of consumerism and government control.

Philosophy 222. (F)  
LOVE AND HUMAN SEXUALITY  
3 credits  
A philosophical exploration of human love and sexuality. Attention will be given to the connection between the philosophical approach and that of other disciplines. Works by authors such as Plato, Aristotle, Thomas Aquinas, Santayana, Ortega y Gasset and Sartre will be read.

Philosophy 223. (S)  
PERSPECTIVES ON DEATH  
3 credits  
A study of various philosophical strategies for coming to terms with human death. Western and non-Western sources will be used. Philosophical views on death applied to problems such as aging and dying, suicide and euthanasia, the medical conquest of death, and definitions of death. Of particular value for students choosing careers in the health professions.

Philosophy 311. (F)  
PROBLEMS OF KNOWLEDGE  
3 credits  
A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims. Required of all philosophy majors.

Philosophy 323. (S)  
THE PHILOSOPHY OF SCIENCE  
3 credits  
The impact of scientific revolutions on observations and rationality in science studied through the writings of Kuhn and Feyerabend and others. Critical examinations of such concepts in science as scientific method, induction, verification, and falsification.

Philosophy 325. (S)  
SYMBOLIC LOGIC  
3 credits  
A study of the following aspects of symbolic logic: truth functional logic, quantificalational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic.

Philosophy 326. (F)  
HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD  
3 credits  
Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle. Required of all philosophy majors; open to others.
Philosophy 327. (S)  
HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND RENAISSANCE PERIODS  
3 credits  
From St. Augustine through the age of scholasticism to the Renaissance. Required of all philosophy majors; open to others.

Philosophy 328. (F)  
HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD  
3 credits  
From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists, empiricists, and Kant. Required of all philosophy majors; open to others.

Philosophy 416. (F)  
TUTORIAL IN PHILOSOPHY  
3 credits  
Introduces the student to the critical reading of a major philosophical text. Text will be studied in common, and critical papers will be written on the text studied. Required of philosophy majors; open to others with approval of chairman.

Philosophy 470.  
SPECIAL TOPICS  
3 credits

Philosophy 480. (S)  
SEMINAR  
3 credits  
An investigation of a philosophical theme chosen each year by the department. Students will write a paper on the theme and present their work to the seminar. The seminar has for its purpose the integration of previous philosophical study. Required of philosophy majors; open to others with approval of chairman.

PHYSICS  
Chairman: Joseph W. Simmons, M.S.  
Associate Professors: Guttmann, Longo, Simmons  
Assistant Professor: Strieb

Required for Major in Physics: 14 courses

- Physics 111-112, 113, 211, 212, 213, 311, 313, 411, 412  
- Physics 214 and 224 or 351 and 352  
- Mathematics 120, 221.

Physics 101. (F)  
FROM THE ATOM UP  
3 credits  

Physics 102.  
FROM THE ATOM DOWN  
3 credits  

Physics 105-106.  
GENERAL PHYSICS  
4 credits  
Vectors, elementary mechanics of point particles and rigid bodies, gravitation, simple harmonic motion and waves. Electromagnetism, D.C. and A.C. circuits and elementary optics. Prerequisite: Mathematics 120. Three hours lecture, two hours laboratory; two terms.
Physics 111-112.
GENERAL PHYSICS I & II  
4 credits

For freshmen physics majors and qualified students in other disciplines. An introduction to the ideas and techniques of classical physics. First semester: classical mechanics of particles and rigid bodies. Second semester: electricity and magnetism, thermal physics. Relation of these areas to current research is stressed. Prerequisite: Mathematics 120 and 221 concurrently (or equivalent). Three hours lecture, one hour problem session, two hours laboratory; two terms.

Physics 113. (F)
GENERAL PHYSICS III  
3 credits

Includes topics relative to wave phenomena and modern physics. Prerequisites: Physics 105-106 or 111-112; Mathematics 221 concurrently; or permission of instructor.

Physics 120.
SCIENCE, TECHNOLOGY, AND SOCIETY  
3 credits

A study of some interactions between science, technology, and society. Topics include: the scientific community; history of technology; weapons; science, technology, and the arts; technology and change.

Physics 211. (F)
MATHEMATICAL PHYSICS I  
3 credits

Infinite series, Taylor expansions, partial differentiation, multiple integration, systems of linear equations, differential and integral vector analysis, linear differential equations, Fourier series. Prerequisite: Mathematics 221.

Physics 212. (S)
MATHEMATICAL PHYSICS II  
3 credits

Partial differential equations, special functions, boundary value problems, complex variables, Fourier and Laplace transforms, calculus of variations, linear algebra and eigenvalue problems. Prerequisite: Physics 211 or permission of instructor.

Physics 213. (S)
THERMAL PHYSICS  
3 credits

Topics treated include the first, second, and third law of thermodynamics; kinetic theory of gases; transport phenomena; Maxwell-Boltzmann statistics; Bose-Einstein and Fermi-Dirac statistics. Three hours lecture. Prerequisite: Physics 105-106.

Physics 214. (F)
ELECTRONICS I  
3 credits

Circuit theory involving resistors, capacitors, inductors, transformers; diodes, bipolar and field effect transistors, power supplies. Familiarization with basic electronic instruments such as oscilloscope, function generator and impedance bridge. Prerequisite: None, but Physics 105-106 recommended. Laboratory required.

Physics 220. (S)
TOPICS IN BIOPHYSICS  
3 credits

Mechanics: loading of muscles and bones, fracturing of bones, energy considerations of insect flight. Optics: mirrors, lenses, aberrations, microscopes, physics of the eye. Fluids: pressure and flow in tubes, viscosity, diffusion applied to membranes. Prerequisites: Physics 105-106 and Biology 151-152, or permission of the instructor.

Physics 224. (S)
ELECTRONICS II  
3 credits

Three terminal devices, transistors and tubes, small signal analysis, DC biasing, multi-stage operation, feedback, special purpose semiconductor devices, operational amplifiers. Prerequisite: Physics 214. Laboratory required.
Physics 251.
INTRODUCTION TO DIGITAL COMPUTER ELECTRONICS 3 credits
Review of Ohm's Law, diodes and transistors (treated only as switching devices), Boolean algebra, 7400 Integrated circuit series, counters, adders, general registers and basic computer hardware. Prerequisite: none, but Physics 105-106 recommended. Laboratory required.

Physics 311-312.
ELECTRICITY AND MAGNETISM 3 credits
Electrostatics, magnetostatics, dielectrics and magnetic materials, Maxwell's equations, electromagnetic waves, electromagnetic radiation. Prerequisite: Physics 211 or equivalent.

Physics 313. (S)
STATES, WAVES, AND PHOTONS 3 credits
A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bracket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier transforms; the electromagnetic field and its quantization. Prerequisite: Physics 311.

Physics 321. (S)
INTRODUCTION TO ASTROPHYSICS 3 credits
Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.

Physics 322. (S)
PLANETARY PHYSICS 3 credits
The solar system and its origins; interiors and atmospheres of terrestrial and giant planets, interplanetary matter and comets. Prerequisite: Mathematics 221.

Physics 351.
ADVANCED LABORATORY I 3 credits
Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: Physics 113.

Physics 352.
ADVANCED LABORATORY II 3 credits
Similar in purpose to Physics 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: Physics 113.

Physics 353. (S)
INTRODUCTION TO MICROPROCESSORS 3 credits
Hardware and software of popular microprocessor chips will be dealt with. E.g. 8080. CPU's, I/O, memories and A/D will be some of the topics treated. Microprocessors available to conduct required experiments. Prerequisite: Physics 251. Laboratory required.

Physics 311-321.
MECHANICS 3 credits
Topics include: the single particle and systems of particles in one, two, and three dimensions; rigid body motion; moving coordinates systems; the mechanics of continuous media; Lagrangian and Hamiltonian formulations; tensor methods; special relativity. Prerequisites: General Physics, Mathematics 222, Physics 211 or permission of the instructor.

Physics 412.
QUANTUM PHYSICS I 3 credits
The Schrodinger equation and its application to one dimensional systems and the hydrogen atom. Heisenberg's uncertainty relations, perturbation theory for degenerate and nondegenerate states. Prerequisite: Physics 211 or equivalent.
Physics 422.  
QUANTUM PHYSICS II  
3 credits  
Quantizing the electromagnetic field and applications of quantum mechanics to problems in atomic, nuclear and solid state physics. Prerequisite: Physics 412.

Physics 470.  
SPECIAL TOPICS  
3 credits  
As interests indicate, special programs may be introduced into the curriculum, discussing specialized areas for group or independent study.

Physics 480-481.  
RESEARCH  
1-2 credits  
Individual studies and research, presentation of papers, familiarization with the literature.

POLITICAL SCIENCE

ROBERT J. COURTNEY, Ph.D., Chairman  
Professors: Courtney, Dillon  
Associate Professor: Nathans  
Assistant Professors: Hill, McGovem

All political science courses except 251-252 and 480-481 are open to all students.

Required for Major in Political Science: 15 courses

- Political Science 102, 104, 220, 222, 480, 481
- Seven political science electives
- Economics 101-102

Political Science 102. (F, S)  
AMERICAN FEDERAL GOVERNMENT  
3 credits  
An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with states. Required of all political science majors.

Political Science 104. (S, F)  
WESTERN EUROPEAN POLITICS  
3 credits  
A political analysis of the constitutional principles and governmental organizations of England, France, and Germany. Required of all political science majors.

Political Science 220. (F, S)  
INTERNATIONAL RELATIONS  
3 credits  
An analysis of the basic patterns and major factors underlying international politics. Consideration of current international problems. Required of all political science majors.

Political Science 222. (S)  
SURVEY OF POLITICAL THOUGHT  
3 credits  
An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom. Required of all political science majors.

Political Science 230. (F 1987)  
POLITICAL GEOGRAPHY  
3 credits  
A survey of the geographic factors influencing the real and potential economic and political development of nations.

Political Science 231. (F 1985)  
U.S. FOREIGN RELATIONS I  
3 credits  
A study of the diplomatic and military instruments of American foreign relations, the formal and informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II.
Political Science 232. (S-1986) D
U.S. FOREIGN RELATIONS II
3 credits
An analysis of the main problems of American foreign relations from 1945 to the present.

Political Science 234. (F 1986) D
THE POLITICS OF THE SOVIET UNION
3 credits
An examination of the major elements that determine the nature of Soviet polity, including the role of the Communist Party, the relationship between the party and government, the growth of dissent within the Soviet Union, and future prospects for Soviet society.

Political Science 235. (F 1987) D
LATIN AMERICAN POLITICS
3 credits
An examination of the common institutions and political practices that characterize Latin American governments. Mexico examined as an illustration of these institutions and practices.

Political Science 238. (S-1986) D
THE MIDDLE EAST AND THE WORLD.
3 credits
A study of modern Middle Eastern politics, with emphasis on the origins, issues and present stage of the Arab-Israeli conflict; an analysis of Western and Soviet foreign policies in the area, with emphasis on America’s mideast diplomacy.

Political Science 240. (S-1986) D
AMERICAN STATE GOVERNMENT
3 credits
A study of the state as a partner in the federal system; the states’ constitutional development; and principles underlying state governmental organization, reorganization, and functions.

Political Science 241. (S 1987) D
MUNICIPAL GOVERNMENT
3 credits
A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.

Political Science 242. (S) D
AMERICAN POLITICAL PARTIES
3 credits
A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country’s history.

Political Science 243. (F) D
AMERICAN CONSTITUTIONAL LAW I
3 credits
A case study approach utilizing Supreme Court decisions provides an analysis of the governmental structure of the United States. Principal topics include judicial review, separation of powers, federalism, extent and limit of Congressional and Presidential authority, the commerce and fiscal clauses of the Constitution. (Required of all Political Science majors).

Political Science 244. (S-1986) D
THE LEGISLATIVE PROCESS: THE U.S. CONGRESS
3 credits
The role of Congress in the legislative process; its internal operations and external political relations; especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.

Political Science 245. (F-1986) D
MODERN POLITICAL IDEOLOGIES
3 credits
The interrelation of theory and practice and the development of “ideological” thinking explored through an analysis of the conceptions of man, history, state, and revolution espoused by Marxism-Leninism, Fascism-National Socialism, and Anarchism. Readings from original sources: Marx, Lenin, Mussolini, Hitler, Sorel, Camus, and Guevera.

Political Science 246. (S) D
AMERICAN CONSTITUTIONAL LAW II
3 credits
A case study approach utilizing Supreme Court decision provides an analysis of the individual’s relationship to the government under our Constitution. Principal topics include rights under the early Constitution, the incorporating process, First Amendment rights, procedural rights of the accused, equal protection and political rights. (Strongly recommended: Constitutional Law I).
Political Science 247. (S 1987) D
BUREAUCRATIC POLITICS AND ADMINISTRATION 3 credits
Analysis of bureaucracy within the national and urban context; internal characteristics and external political relationships with executives and legislatures, including unionization of bureaucratic personnel, budgetary relationships, innovation and the relationships of bureaucracy with clientele groups and the general public.

Political Science 251. (F, S) D
POLITICAL SCIENCE INTERNSHIP I 3 credits
Designed to give students the opportunity to apply their academic interest to relevant positions in the community. Placements will be provided and the students will be expected to give a comprehensive report on their experiences. A foundation in political and social science is a prerequisite for this course.

Political Science 252. (F, S) D
POLITICAL SCIENCE INTERNSHIP II 3 credits
With the permission of the Director, Dr. Philip McGovern, a second semester involving a different experience may be undertaken.

Political Science 320-321. (F, S) D
URBAN STUDIES 3-6 credits
Identical with Economics 320-321.

Political Science 330. (F, S) D
THE EDUCATION OF URBAN POPULATIONS 3 credits
Identical with Education 330.

Political Science 370. (F, S) D
SPECIAL TOPICS OR INDEPENDENT STUDY 3 credits
As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.

Political Science 480. (F) D
SEMINAR I 3 credits
A study of methods of research and scholarly writing. Directed research and reports on individual assignments. Required of all political science majors.

Political Science 481. (S) D
SEMINAR II 3 credits
Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. Required of all political science majors.

POLITICAL SCIENCE/PUBLIC ADMINISTRATION
(Administered by the Chairman, Political Science Department)

Required for Major in Political Science/Public Administration: 15 courses

- Political Science 102, 222, 240, 241, 243, 247, 480, 481
- Economics 101, 102, 213
- Accounting 101, 102
- Computer Science 151
- PLR 302
PSYCHOLOGY

JOSEPH F. BURKE, F.S.C., Ph.D., Chairman
Professors: Dondero, McCarthy, Rooney
Associate Professors: Burke, Filicetti, Gilligan, Kovatch, Oden, Schreiner, Smith
Assistant Professors: Falcone, Pritchard

Required for Major in Psychology: Track 1: 12 courses; Track 2: 13 courses; Track 3: 13 courses

Track 1: Pre-Graduate
- Psychology 101, 201, 210, 211, 319, 320
- Four electives in psychology (including at least two at the 400-level)
- Two courses in mathematics

Track 2: General Studies
- Psychology 101, 210, 211, 340 or 319, 364
- Six electives in psychology (including two at the 400-level)
- Two courses in mathematics

Track 3: Work Psychology
Preparation for careers and graduate study in Consumer Psychology, Human Factors, Industrial Organizational Psychology, and Personnel Psychology.
- Psychology 101, 201, 210, 211, 306, 319, 320, 360, 460, and SPSS course
- Two courses in mathematics; Computer Science 150 or 151

Psychology 101. (F, S) D
GENERAL PSYCHOLOGY I 3 credits
Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

Psychology 201. (F, S) D
ADVANCED GENERAL PSYCHOLOGY 3 credits
Introduction to selected content areas of experimental psychology, including psychobiology, sensation and perception, and cognitive processes. Prerequisite: Psychology 101.

Psychology 203. (F, S) D
DEVELOPMENTAL PSYCHOLOGY 3 credits
A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence. Prerequisite: Psychology 101.

Psychology 205. (S) D
AGING: PSYCHOLOGICAL ISSUES 3 credits
An introduction to the scientific study of aging. Theories, principles and research findings that are of a psychological nature will be studied. Prerequisite: Psychology 101.

Psychology 206. (F, S) D
PERSONALITY DYNAMICS AND ADJUSTMENT 3 credits
An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity. Prerequisite: Psychology 101.
Psychology 210. (F)
STATISTICS I
An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisites: Mathematics 111-112 or equivalent.

Psychology 211. (S)
STATISTICS II
An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: Psychology 210 or equivalent.

Psychology 301. (F, S)
EDUCATIONAL PSYCHOLOGY
Identical with Education 203.

Psychology 306. (S)
TESTS AND MEASUREMENTS
The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: Psychology 101, 210 or equivalent.

Psychology 312. (F 1986; F 1988)
BAYESIAN STATISTICS FOR SOCIAL SCIENTISTS
Clarification of the meaning of statistical calculations and analysis from the Bayesian point of view. Data descriptions and the problem of inferences are contrasted with traditional statistical treatments. Prerequisite: A two-semester course in introductory statistics.

Psychology 315. (F, S)
ABNORMAL PSYCHOLOGY
An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, course, and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: Psychology 101 or permission of chairman.

Psychology 319. (F)
EXPERIMENTAL PSYCHOLOGY I
A laboratory course designed to introduce the student to the classical psychological experiments and the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: Psychology 201 and 211 or permission of chairman. Three hours lecture, two hours laboratory.

Psychology 320. (S)
EXPERIMENTAL PSYCHOLOGY II
Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: Psychology 319. Three hours lecture, two hours laboratory.

Psychology 325. (S)
READINGS IN PSYCHOLOGY
Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion. Prerequisite: Psychology 101.

Psychology 330. (S)
COGNITIVE PSYCHOLOGY
A systematic study of the research and theories developed to explain human memory, language, thinking, and consciousness. Prerequisite: Psychology 201.
Psychology 340, (S)  
METHODOLOGY FOR STUDIES AND RESEARCH  
3 credits  
A study of the nature of scientific research methodology; emphasis on critical reading and evaluating reports of studies and research; development of skill in writing review papers; utilization of research literature in the behavioral sciences; data analysis and critiques of extant research. Prerequisites: Psychology 101, 210.

Psychology 350, (F, S)  
EFFECTIVE COMMUNICATION  
3 credits  
A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth.

Psychology 360, (S)  
INDUSTRIAL AND BUSINESS PSYCHOLOGY  
3 credits  
A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of human relations and efficiency in business and industry. Prerequisite: Psychology 101.

Psychology 364, (S)  
SOCIAL PSYCHOLOGY  
3 credits  
A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others. Prerequisite: Psychology 101.

Psychology 406, (F, S)  
COUNSELING THEORIES AND PRINCIPLES  
3 credits  
Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: Psychology 101.

Psychology 407, (F)  
THEORIES OF LEARNING  
3 credits  
An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: Psychology 201.

Psychology 408, (F)  
THEORIES OF PERSONALITY  
3 credits  
A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: Psychology 101.

Psychology 409, (F)  
HISTORY AND SYSTEMS OF PSYCHOLOGY  
3 credits  
An examination of the beginnings and development of psychology as a science and profession and of its various approaches, systems, fields, problems and applications; the historical roots of these in philosophy, biology, and national culture. Prerequisite: junior or senior standing as psychology major.

Psychology 420, (S)  
PHYSIOLOGICAL PSYCHOLOGY  
3 credits  
An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: Psychology 201. Two hours lecture, two hours laboratory.

Psychology 460, (S 1987)  
HUMAN FACTORS  
3 credits  
Human Factors deals with the study of man and his working and living environments, and the application of this knowledge to practical problems encountered in the home, business and industry. Prerequisites: Psychology 211, 360.
Psychology 470-471. (F, S)
SPECIAL TOPICS IN PSYCHOLOGY 3-6 credits
Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of human sexuality, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.

Psychology 480. (F)
SEMINAR I 3 credits
Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: junior or senior standing as psychology major.

Psychology 481. (S)
SEMINAR II 3 credits
A continuation of Psychology 480 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: junior or senior standing as psychology major.

Psychology 485-486. (F, S)
PSYCHOLOGICAL RESEARCH OR PRACTICUM 3-6 credits
Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Students preparing for careers or graduate study in clinical areas of psychology can select from numerous practicum placements. Students in the Work Psychology track may select a practicum placement available with Sun Oil Company or other local businesses. Program planned in advance. Prerequisite: junior or senior standing as a psychology major. One or two terms.

RELIGION

DAVID P. EFROYMSON, Ph.D., Chairman
Professors: Biechler, Efroymson, Kelly
Associate Professors: Davis, Grosnick, Keenan, Schepers
Assistant Professors: Halligan, Harrington, McGinniss
Lecturers: Boni, Devlin, Echelmeier, Luetzow, Mowrey, Reizburg, Van Everbroeck

Required for Major in Religion: 12 courses

- Eleven religion electives, including at least one from each of the four study areas (biblical, theological, historical, and religious) and Religion 480. At least one of these electives must be in a religious tradition outside of Judeo-Christianity.
- Religion majors may choose the major program as described above or:
  Religion-Education: The religion major requirements (chosen, with the guidance of the Chairperson, in view of a career in teaching), plus Education 203, 301, 470-1-2.

Note: Religion is a subject not accredited by the various states; therefore the Pennsylvania Instructional I Certificate is not issued to Religion-Education majors. This forms no impediment whatever to placement in schools which teach religion.
**GENERAL EDUCATION**

**Religion 161. (F, S)**
**THE BIBLE AS RELIGIOUS LITERATURE**  3 credits
The origins, evolution, and formation of the Jewish and Christian Scriptures; the ideas of the people who produced them, and the Near Eastern cultures and literature which contributed to them.

**Religion 162. (F, S)**
**PROBLEMS OF FAITH IN THE CHRISTIAN WEST**  3 credits
An inquiry into the development of the concept of faith in important periods in the history of Christian thought. The course includes a critical examination of crucial issues associated with faith, such as the significance of Jesus Christ, the relationship between faith and reason, the contribution of the Reformation and of existentialism to the understanding of faith, and the atheistic challenge to faith.

**Religion 167. (F, S)**
**CATHOLICISM IN THE MODERN WORLD: PROBLEMS AND CHALLENGES**  3 credits

**SECTION A: BIBLICAL STUDIES**

**Religion 210. (F)**
**OLD TESTAMENT THEMES**  3 credits
A study of the origin and development of biblical traditions and theological themes: God, man, the meaning of life, the Exodus theme, prophecy, etc. Such ideas will be studied in both their Old Testament context as well as their relation to the New Testament.

**Religion 211.**
**CONTEMPORARY NEW TESTAMENT ISSUES**  3 credits
Specific problems of New Testament Christianity as reflected in its literature. Content to be specified at registration.

**Religion 212. (F)**
**THE PROPHETS OF ANCIENT ISRAEL**  3 credits
Prophecy and prophetic literature in the Bible. Prophecy as an institution in the Near East; its unique development in Israel. Theological message of the biblical prophets.

**Religion 310. (F)**
**THE SYNODETIC GOSPELS**  3 credits
How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship. These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

**Religion 163. (F, S)**
**THE DYNAMICS OF RELIGION**  3 credits
A study of the diverse patterns of thought, behavior, and structures that express human religious experience. Themes are selected across the great religious traditions and from tribal and archaic cultures. The course seeks to develop an awareness of the diversity of religious expression and a critical appraisal of the methods used in interpreting this central experience.

**Religion 164. (F, S)**
**RELIGION AND THE CONTEMPORARY SEARCH FOR SELF**  3 credits
An inquiry into the contemporary meaning of self-discovery, seen in the context of those socio-religious values which contribute to an individual's sense of personal identity. A study of religion as an expression of the deepest dimension of human life leading to an appreciation of the possible variety of such expressions in terms of personal self-understanding.
Religion 311. (S)  
THE NEW TESTAMENT WORLD OF JOHN OR PAUL  
3 credits  
A critical appraisal of the literary structure and themes of the writings of John or Paul. The Jewish, Hellenistic, and early Church influence in their composition will be examined. These New Testament writings as a reflection of and as an influence on their times. Writings of John studied in odd-numbered years; those of Paul in even-numbered years. May be repeated for credit if the two different contents are taken.

SECTION B: THEOLOGICAL STUDIES

Religion 220. (F)  
THE CHURCH: ISSUES AND PROBLEMS  
3 credits  
A brief study of the origins of the Church, and an examination of the various modes in which Church has been and can be understood. Social structure and dynamics of the Church and her mission in today’s world.

Religion 221. (F)  
ISSUES IN CHRISTOLOGY: JESUS AND HIS ACHIEVEMENT  
3 credits  
The person and mission of Jesus in post-biblical theology. Emphasis on contemporary interpretations of Jesus as Man and God.

Religion 222. (F)  
THE SACRAMENTS  
3 credits  
An inquiry into the origin and development of the Christian symbols highlighting some of the problems of modern sacramental theology.

Religion 223. (F)  
CONTEMPORARY MORAL PROBLEMS  
3 credits  

Religion 224. (S)  
HUMAN EXISTENCE AND RELIGIOUS BELIEF  
3 credits  
An inquiry into the nature of religious faith and into the issues that surface when believers come alive to the realities of modern life. The relation between action and contemplation. The question of faith and history. The combination of religious belief and morality. The influence of faith on social institutions and vice versa.

Religion 320.  
THEOLOGICAL ISSUES  
3 credits  
Selected theological topics of current controversy. Content to be specified at registration.

Religion 323. (S)  
BIOMEDICAL PROBLEMS  
3 credits  

Religion 325. (F, S)  
A CONTEMPORARY THEOLOGY OF MARRIAGE  
3 credits  
An investigation into the possible meanings of marriage with the purpose of discovering the ways in which this human reality can become a saving mystery that helps people to become what they are supposed to be.
## SECTION C: HISTORICAL STUDIES

### Religion 230. (S)
**RELIGION IN AMERICA**
3 credits
A study of the major religious movements within the Roman Catholic Church and Protestant churches in the United States from the American Revolution to the present day. The course will investigate the theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, and the Atomic Age.

### Religion 239. (F)
**THE REFORMATION AND THE CATHOLIC RESPONSE**
3 credits
A critical audition of the religious voices of the Reformation era, with attention to their origins, context, and peculiarities. Special treatment to the important reformers both on the Continent (Luther, Calvin, Zwingli, Bucer) and in the British Isles (Cranmer, Knox), as well as to pertinent Catholic thought (Council of Trent).

### Religion 330. (S)
**EARLY CHRISTIANITY: CRISIS AND PROCESS**
3 credits
An in-depth exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire, the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.

### Religion 331. (F)
**DEVELOPMENT OF CHRISTIANITY IN THE MIDDLE AGES**
3 credits
A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.

### Religion 332. (S)
**MODERN RELIGIOUS THOUGHT**
3 credits
A critical examination of the great religious movements of the 19th and 20th centuries that have most contributed to the present religious situation. The encounter between Christian thought and philosophy and natural science. The confrontation between Existentialism and religious Idealism; the Oxford Movement, the Marxist critique of religion; the origins of biblical criticism; and the clash between conservatism and liberalism in Protestant and Catholic Church circles.

## SECTION D: RELIGIOUS STUDIES

### Religion 240. (F)
**THE RELIGIONS OF INDIA**
3 credits

### Religion 241. (S)
**BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN**
3 credits
Religion 242. (F, S) JUDAISM 3 credits
A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

Religion 243. (S) RELIGIOUS ATTITUDES IN MODERN LITERATURE 3 credits
An introduction to the meeting between religion and literature as found in the writings of Dostoevsky, Kafka, Bernanos, Eliot, Camus, Beckett, Kazantzakis, and in some of the poetry of Yeats, Auden, Frost, Roethke. A variety of literary forms will be examined to discern the writers' religious intentions. Topics include: Can an "atheist" be religious? Is God present in a book which makes no mention of him? What is meant by the term "religious"? Traditional issues—the problem of evil, the moral dilemma, human freedom—explored. Identical with English 243.

Religion 244. (S) ISLAM 3 credits
Background and development: the prophet, the Qur'an, Muslim traditions and values; theological development, inner tensions, contemporary movements, confrontation with the non-Muslim world.

SECTION E: SPECIAL STUDIES

Religion 270, 370, 470. (F, S) SPECIAL TOPICS IN RELIGION 3 credits
Content of the course will be announced whenever it is offered. May be repeated for credit.

Religion 480. (F) SEMINAR 3 credits
An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all religion majors; open to others approved by chairman. Prerequisite: 15 hours of religion. May be taken in junior or senior year.

SOCIOMETRY, SOCIAL WORK, AND CRIMINAL JUSTICE

JOHN F. CONNORS, Ph.D., Chairperson
Professor: J. F. Connors
Associate Professors: Coffee, Leonard
Assistant Professors: Bird, J. T. Connors, Hornum, Montgomery, Otten, Simon, Stevenson, Stull
Instructor: Coleman

Required for Sociology Majors: Sociology 101, 301-302, 310, 480-481, three 200-300 level sociology courses, and three electives in sociology, social work or criminal justice. Also recommended: Economics 411, 412; History 225, 233, 237; Political Science 102, 245; Psychology 203, 206, 315, 350.

Sociology 101. (F, S) INTRODUCTION TO SOCIOLOGY 3 credits
An examination of sociological concepts, theories and methods with applications to American society as well as cross-cultural comparisons.
Sociology 102. (F, S)  
CONTEMPORARY SOCIAL PROBLEMS  3 credits  
A sociological analysis of significant social problems in contemporary society. Such selected social problems as poverty, racism, sexism, delinquency, crime, mental illness and family and community disorganization will be surveyed. Each semester one section of this course will focus on a specific social problem area.

Sociology 111. (F, S)  
MARRIAGE AND FAMILY  3 credits  
Study of marriage and the family as social institutions. A consideration of the historical development of the family, variations of family structure in contemporary societies, and current trends in American family patterns.

Sociology 203. (F)  
SOCIOLOGY OF WORK  3 credits  
Analysis of the social organization of work in modern societies, the concept of career, the development of professionalization, the nature of work-satisfaction and the impact of bureaucratization. Occupational subcultures such as law, medicine, public service, the military, and education considered.

Sociology 207. (S)  
THE CITY: CONFLICT AND CHANGE  3 credits  
A study of world cities, their growth and impact on personality, urban violence and its control, fragmentation, economic problems and city/suburban conflicts. Efforts at neighborhood development and metropolitan planning will also be discussed.

Sociology 208. (F)  
POPULATION AND ECOLOGY  3 credits  
A study of the effects on the quality of life caused by population growth and patterns of consumption in developing and industrial nations. Trends in mortality and fertility, causes and consequences of these trends, and population policies explored.

Sociology 209. (S)  
SOCIOLOGY OF RELIGION  3 credits  
A study of churches, denominations, cults and their influence on members as well as their involvement in social stratification and social change.

Sociology 210. (S)  
SEX, POWER, AND SOCIALIZATION  3 credits  
An exploration of male and female gender roles in the contemporary United States. An examination of socialization in childhood and adulthood, sexual politics, and power structures and dynamics within the family. Special attention to the effects of class and race on gender role formation.

Sociology 212. (F, S)  
ETHNICITY AND RACE IN THE UNITED STATES  3 credits  
An analysis of the structure and dynamics of dominant/minority relations in historical and contemporary contexts. Emphasis on the sociological analysis of ethnic and racial discrimination and inquiry into the sources of conflict between dominant and minority groups.

Sociology 213. (F)  
HUMAN NATURE, CULTURE AND SOCIETY  3 credits  
An anthropological study of the origin and descent of humans and of the role of culture in explaining the variations and constants in human behavior.

Sociology 301. (F)  
SOCIAL STATISTICS I  3 credits  
A general introduction to such descriptive statistics as central tendency measures, variability and regression. Analysis of cross-tabulated data will be facilitated through the utilization of computer software programs. No prior knowledge of computers assumed.
Sociology 302. (S)  
SOCIAL STATISTICS II  
3 credits  
Basically a course in inferential statistics beginning with a discussion of probability, binomial distributions, and normality. Both parametric and non-parametric statistics covered. Continued use of computer technology in the analysis of survey research results as well as those collected using qualitative methodologies. Prerequisite: Sociology 301 or permission of instructor.

Sociology 305. (F)  
SOCIETY AND THE INDIVIDUAL  
3 credits  
The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual. Prerequisite: Sociology 101 or 102, or permission of instructor.

Sociology 306. (F)  
BUREAUCRACY AND SOCIETY  
3 credits  
An examination of the nature and effects of modern, large-scale organizations. Focus on both private sector corporations and public sector bureaucracies. Prerequisite: Sociology 101 or 102, or permission of instructor.

Sociology 308. (S)  
CLASS, STATUS, AND POWER  
3 credits  
A study of economic, social and political inequalities. Emphasis on the causes, patterns, and consequences of such inequalities. The United States compared with other industrial as well as non-industrialized nations. Prerequisite: Sociology 101 or 102, or permission of instructor.

Sociology 309. (S)  
HEALTH AND SOCIETY  
3 credits  
A basic survey of how individuals are socialized to think about, and are treated by, those in the health professions. A cross-national perspective will be assumed. Topics include: malpractice, population control, human experimentation, deviance and stigmatization.

Sociology 310. (F, S)  
SOCIOLOGICAL THEORY  
3 credits  
A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist’s milieu. Prerequisite: Sociology 101 or 102, or permission of instructor.

Sociology 363. (F)  
SOCIAL POLICY I  
3 credits  

Sociology 364. (S)  
SOCIAL POLICY II  
3 credits  
Explores contemporary social policies in the U.S. Topics selected from the following: health, aging, mental health, child welfare, family, welfare, and educational policy. Domestic and international alternatives to current policies discussed. Identical with Social Work 364.

Sociology 270, 370, 470. (F, S)  
SPECIAL TOPICS IN SOCIOLOGY  
3 credits  
Designed to meet current developments in sociological specialties. Topics include deviance, social change, physical anthropology, mental health and social work, criminalistics, sociology of conflict, counseling methods, gerontology. Students should check with the department about whether course meets distribution requirement.

Sociology 480. (F)  
RESEARCH SEMINAR I  
3 credits  
An overview of research methodology. Such research data collection methods as questionnaire designs, interviewing and observations will be discussed. Topics covered will include the ethics of human experimentation and evaluation techniques. Offered in alternate years.
Original research in one area of social reality employing a research method of the student's choosing. Offered in alternate years.

CRIMINAL JUSTICE
FINN HORNUM, M.A., Director
LAURA OTTEN, M.A., Field Coordinator

Required for Criminal Justice Majors: Criminal Justice 221, 222, 385, 485-486 and two additional criminal justice courses; Sociology 101, 301-302, 310 and two 200-300 level sociology courses. Also recommended as appropriate to career objectives: Accounting 101, 102; Computer Science 151, 153; Management 201, 307; Political Science 102, 240, 241, 243, 246, 247; Psychology 101, 206, 306, 315, 364, 406, 408; Social Work 361-362, 363-364.

Criminal Justice 221. (F) D
CRIME AND ITS CAUSES
3 credits
A study of the sociological and social psychological foundations of crime and delinquency. Topics include: the definition and meaning of crime and delinquency, the etiology of crime and delinquency, the history and development of the criminal law, criminal behavior systems.

Criminal Justice 222. (S) D
INTRODUCTION TO CRIMINAL JUSTICE
3 credits
A consideration of law enforcement, the administration of justice and the punishment and treatment of criminals. A survey of the sociological and social psychological processes affecting the criminal justice system. Topics include: the police function, crime prevention programs, the prosecutorial and defense functions, judicial administration and decision-making, institutional and community-based corrections, probation and parole.

Criminal Justice 223. (S) D
CRIMINAL LAW
3 credits
Designed to expose the student to the basic concepts and issues of criminal law: foundations of the law, legal elements of crime, legal requirements for defenses and punishments. The Pennsylvania Crimes Code used as reference. Attention to the sociological implications of these legal issues.

Criminal Justice 224. (S) D
POLICE: ORGANIZATION AND FUNCTIONS
3 credits
A study of the organization, power, and functions of the police. Topics include the police organizational structure, such police responsibilities as patrol, arrest and investigation, police community relations, and other topical issues on police and society.

Criminal Justice 226. (S) D
CORRECTIONS: PRISONS, PROBATION AND PAROLE
3 credits
Intensive examination of the correctional process in the United States and other countries. Topics include: the objectives of punishment, sentencing policies and procedures, capital punishment, imprisonment and community corrections.

Criminal Justice 270, 370, 470. (F, S) D
SPECIAL TOPICS IN CRIMINAL JUSTICE
3 credits
Designed to address current issues in criminal justice. Topics: gender and criminal justice, criminal procedure, forensic criminology, counseling, and criminal justice administration and research. Students should check with the department whether course meets distribution requirements.
Criminal Justice 385. (F, S)
THEORIES OF DEVIANCE 3 credits
An intensive analysis of contemporary theories of deviant behavior. Theories examined through seminar discussions of primary materials and critiqued by consideration of research findings. Social policy implications discussed and specific criminal justice programs considered in the light of these theories.

Criminal Justice 386. (F)
SYSTEMS OF CRIMINAL BEHAVIOR 3 credits
Selected criminal behavior systems examined in depth through readings, group projects, field interviews, and field trips. Offerings include such forms of criminal behavior as juvenile delinquency, organized crime, elite deviance, violent crime, crimes without victims, and international terrorism.

Criminal Justice 485-486. (F, S)
FIELD SEMINAR IN CRIMINAL JUSTICE 6-12 credits
Field placement in law enforcement, legal and correctional agencies, evaluative seminar sessions with instructors, and completion of a field-oriented project. Students may elect to take both courses in one semester (four days per week, six hours per day in the field and six hours of seminar session per month). Alternatively, students may elect to take the courses sequentially over two semesters (two days per week, six hours per day in the field and two hours seminar per month). Students are placed in criminal justice agencies related to their interests and receive individual supervision by a field supervisor employed by the agency and a faculty liaison person. Prerequisite: Criminal Justice 385.

SOCIAL WORK
CSWE Accredited Baccalaureate Program
SYBIL MONTGOMERY, M.S.S., A.C.S.W., Director
PATTY A. COLEMAN, M.S.S., A.C.S.W., Field Instruction Coordinator

Students are encouraged to use these and their free electives to build a concentration in their personal areas of interest, e.g., Business Administration, Criminal Justice, Psychology, Sociology, Spanish, Political Science, Urban Studies, Women's Studies.

Social Work 202. (S)  D
INTRODUCTION TO SOCIAL WORK AND SOCIAL WELFARE 3 credits
Foundation for all other social work courses in that it provides a basic framework of analysis for practice and policy courses. Provides a basic understanding of fundamental human needs, of populations at risk in this society, and of the social service delivery system.

Social Work 210. (S)  D
SEX, POWER AND SOCIALIZATION 3 credits
An exploration of male and female gender roles in the contemporary United States. An examination of socialization in childhood and adulthood, sexual politics, and power structures and dynamics within the family. Special attention to the effects of class and race on gender role formation. Identical with Sociology 210.
Social Work 270, 370, 470. (F, S)  
SPECIAL TOPICS IN SOCIAL WORK  
3 credits  
Designed to address contemporary issues in social policy and social work practice. Topics: gerontology, mental health, child welfare, family violence, and others. Students are advised to check with the Program Director about current offerings and about whether course meets distribution requirement.

Social Work 361. (F)  
SOCIAL WORK THEORY AND PRACTICE I  
3 credits  
The generalist framework of social work practice. A range of generalist techniques studied as preparation for practice with individuals, groups, and other systems. Principles of interviewing and developmental helping skills. Role-playing, case studies, and videotaping will be used. Instruction and practice in social welfare and related agencies which provide a range of generalist services. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' lives. Students spend the equivalent of one full day per week in field instruction. Prerequisite: Social Work 202 or permission of instructor.

Social Work 362. (S)  
SOCIAL WORK THEORY AND PRACTICE II  
3 credits  
The Task Centered Model applied to micro and macro level practice situations. Concepts from the biological, social and behavioral sciences examined to provide an informed use of the model in a range of agencies which provide generalist services. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' lives. Students spend the equivalent of one full day per week in field instruction. Prerequisite: Social Work 361.

Social Work 363. (F)  
SOCIAL POLICY I  
3 credits  
An historical look at the development of the welfare state in the United States. Particular attention to traditions, laws, and court decisions concerning poor people, racial minorities, immigrants, and women. Identical with Sociology 363.

Social Work 364. (S)  
SOCIAL POLICY II  
3 credits  
Explores contemporary social policies in the U.S. Topics selected from the following: health, aging, mental health, child welfare, family, welfare, and educational policy. Domestic and international alternatives to current policies discussed. Advocacy and lobbying processes are practiced. Identical with Sociology 364.

Social Work 461-462. (F, S)  
SEMINAR IN SOCIAL WORK I AND II  
3-6 credits  
Building upon the knowledge, attitudes, and skills developed in the junior-level skills and methodology courses, these senior seminars deepen students' understanding of generalist intervention strategies. While focusing on both micro and macro level practice, these courses will be organized around social work processes: assessment, planning, intervention and evaluation. Students will be given an opportunity to evaluate their own practice through empirical testing.

Social Work 463-464. (F, S)  
FIELD INSTRUCTION I AND II  
6-12 credits  
Instruction in advanced practice skills. Students spend two full days per week in educationally-directed field placements. To be taken concurrently with Social Work 461-462.

Social Work 465. (F)  
PROFESSIONAL CONSIDERATIONS IN SOCIAL WORK  
3 credits  
Questions of values and ethics underlying professional social work practice are explored through lectures, analysis of practice, or participation at professional meetings. Philosophical, political, and sociological perspectives will provide the framework for analysis.
URBAN STUDIES CONCENTRATION

Coordinated by: DR. RICHARD T. GERUSON, Economics Department

Designed as a minor for students wishing to focus their electives on urban questions.

Required:
- Economics/Sociology/Political Science 320, 321
- Three of the following only with approval of coordinator:
  - Sociology 207, 208, 212, 306, 308, 330, 470
  - History 144, 224, 233, 237
  - Economics 203, 404, 470
  - Political Science 241, 247, 330
  - Education 330
  - English 210
  - Psychology 364
  - Humanities 100 (Evening Division)

WOMEN’S STUDIES CONCENTRATION

Coordinated by: CARYN McTIGHE MUSIL, Ph.D., English

Designed as a minor for students of any major who wish to use a portion of their distribution requirements and electives to explore the limitations and resources of women’s lives and to examine gender as a category of cultural and historical analysis.

Required:
Six of the following courses:
- English 160
- English 204
- English 314
- History 228
- History 229
- Sociology 210 or Social Work 210
- Special Topics (To be announced by individual departments)
- Independent Study (requires formal approval of Dean)
- Internship (requires formal approval of Dean)
Business Administration
The School of Business Administration offers a four-year undergraduate program for men and women leading to the Bachelor of Science degree. The program of studies is designed to expose the student both to a fundamental body of knowledge and standard analytic, communications, and decision-making skills as well as to current developments in business theory and practice. To ensure that these are contemporaneous, the program is regularly evaluated in terms of: standards established by the American Assembly of Collegiate Schools and Business; standards and norms endorsed by various professional bodies such as the American Institute of Certified Public Accountants, the American Management Association and the American Marketing Association; and an ongoing dialogue with managers and business professionals in the Delaware Valley. The program prepares graduates to move from the University into management/professional positions in business, government and nonprofit organizations or into graduate study.

Course requirements and electives are structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a business core consisting of study in the several areas of business administration and in analytical methods and techniques; and (3) an opportunity to concentrate in depth in a professional area as a basis for future career development. The general education and distribution studies provide the student with an understanding of self, the humanistic and philosophic aspects of man, the traditions of Judeo/Christian thought, and the social, mathematical, and computing sciences relevant to business practice. The business core and professional studies provide a broad understanding of the theory and practice of administration in large and small organizations.

DEGREE PROGRAM

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits (minimum 38 courses), about half of which may be taken in business and economics. The general education and professional studies are pursued simultaneously by the student throughout the four years of undergraduate study. In the junior year, a student begins to specialize in a professional option or "major." Professional options and concentrations are available in:

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<th>Accounting</th>
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<th>Personnel &amp; Labor Relations</th>
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<td>Finance</td>
<td>Management Information Systems</td>
<td>Quantitative Analysis</td>
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<td>Health Care Administra*tion</td>
<td>Marketing</td>
<td>Risk Management and Insurance*</td>
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<td>International Studies*</td>
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<td>Special Options**</td>
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* Denotes concentration.
** To meet individual needs.

In addition to the program of academic studies, students are encouraged to be in contact with business practitioners and organizations. This dialogue is achieved through a variety of channels. Students are encouraged to undertake at least one co-op experience. The Executive-in-Residence coordinates the campus appearance of a significant number of corporate speakers during the course of the academic year. The sixteen business executives on the Business Advisory Board provide a valuable resource for both students and faculty to draw upon. Finally, students are encouraged to begin formulating and testing career plans through the Career Planning and Placement Office at an early point in their university years.
CURRICULUM
The curriculum for business administration students has five parts:

1. General Education—7 courses (21 credits)
2. Distribution Requirement—9 courses (27 credits)
3. Business Core—10 courses (30 credits)
4. Professional Studies—4 courses (12 credits)
5. Electives—10 courses (30 credits)

1The Accounting Option requires 8 courses (24 credits) beyond the Business Core.
2The Accounting Option has 6 courses (18 credits) as electives. Two courses (6 credits) in business and economics and 4 courses (12 credits) in arts and sciences are recommended as electives. For other options, 4 courses (12 credits) in business and economics and 6 courses (18 credits) in arts and sciences are recommended as electives.

General Education
These studies are aimed at providing an enduring base for personal development and an awareness of moral values and social responsibility. Normally these courses will be completed by the end of the sophomore year. They include:

English Composition .......... 1 semester

Literature ......................... 2 semesters (May be waived if writing competence is established.)
Philosophy .......................... 2 semesters (English or foreign literature in English.)
Religion .............................. 2 semesters

Distribution Requirement
This requirement provides a measure of balance in the liberal arts and sciences, the major field, while at the same time permitting an element of flexibility so that each student may tailor his program to some degree to fit his interests and needs. The Distribution Requirement is normally completed by the end of junior year. N.B.: mathematics and economics must be selected by all students in the School of Business Administration. General Education courses may not be taken to fulfill Distribution Requirements.

Business administration students may choose two courses from two of the three areas: Area I, III, or V.

Area I  Area III  Area V
English  Religion  Biology
History  Philosophy  Chemistry
          Fine Arts  Geology
          (Music or Art)  Physics
Area II
Foreign Languages
Mathematics

Area IV
Economics2
I
Political Science
Sociology
Psychology

Students must take Mathematics 111 and 112. Mathematics 120 may be used to satisfy the Mathematics requirement. All students must take Computer Science 151 or equivalent.

Economics 101-102 is required of business students.

Business Core
Course work consists of study in the several areas of business practice and in analytical methods and techniques. This foundation is intended to develop a broad understanding of business problems. The following courses constitute the core:

Accounting 101, 102; Economics 302; Finance 201, 300; Law 201; Management 201, 300; Marketing 201; Quantitative Analysis 213.

Professional Studies
These courses provide an intensive learning experience in one facet of business practice and serve as a basis for future career development. Professional options are offered in:

Accounting
Finance
Management
Management Information Systems
Marketing
Personnel and Labor Relations
Quantitative Analysis
Special Options

The professional option consists of 12 credits, normally in a functional area beyond the courses required in the business core. An exception to the 12 credit requirement is the accounting option, for which a set of course requirements has been established as necessary preparation for the Certified Public Accounting examination in Pennsylvania. You may choose your professional option when you apply for admission or at some time during your first two years of college. Dual Majors: If you wish to pursue a dual major, you must obtain permission from both chairpersons. If you wish to choose a concentration in Health Care Administration, International Studies, or Risk Management and Insurance, you must obtain permission from the coordinator.

Free Electives
A student may choose to concentrate his free electives in a particular field or may use these electives to diversify his background or broaden his interests. To achieve a balance between liberal arts and professional studies, the school recommends that a student take no more than 12 credits as electives in business administration or economics. Quantitative Analysis 214 is recommended for students intending to apply to graduate school.
### MODEL ROSTER FOR PROFESSIONAL OPTION IN ACCOUNTING

#### FRESHMAN YEAR

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<td>Eco. 101</td>
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#### JUNIOR YEAR

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#### SOPHOMORE YEAR

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<td>Acc. 201</td>
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<td>Fin. 201</td>
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<td>Mgt. 201</td>
<td>Gen. Ed. Lit.</td>
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<td>C. Sc. 151</td>
<td>Dist. Req. — Areas</td>
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PROGRESS RECORD
To keep track of your progress, fill in the title and number of each course completed. Take this record with you whenever you meet with your academic adviser.

GENERAL EDUCATION (7 courses)

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<td>2.</td>
<td>Literature</td>
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<td>3.</td>
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<td>4.</td>
<td>Religion</td>
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<td>5.</td>
<td>Religion</td>
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<td>6.</td>
<td>Philosophy A</td>
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<td>7.</td>
<td>Philosophy B</td>
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DISTRIBUTION REQUIREMENTS

(9 courses)
(Areas II and IV are required as listed. Choose 2 courses from 2 of the 3 areas: I, III, or V.)

Area I: (Eng., Hist.)
1. ____________________________
2. ____________________________

Area II: (Lang., Math.)
1. Math. 111 ____________________
2. Math. 112 ____________________
3. C. Sc. 151 or equivalent      
   (Math. 120 may be used to satisfy mathematics requirement)

Area III: (Rel., Phil., Fine Arts)
1. ____________________________
2. ____________________________

Area IV: (Econ., Pol. Sc., Soc., Psy.)
1. Econ. 101 ____________________
2. Econ. 102 ____________________

Area V: (Bio., Chem., Geol., Phys.)
1. ____________________________
2. ____________________________

BUSINESS CORE (10 courses)

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PROFESSIONAL STUDIES (4 courses; 8 for Accounting majors)

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ELECTIVES (10 courses, 6 for Accounting majors)

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Course Descriptions

ACCOUNTING

JOSEPH MARKMANN, C.P.A., Chairman
Associate Professors: Hanratty, Kaiser, Kennedy, Markmann, Reardon, Sweeney
Assistant Professors: Bader, Brazina, Massamini, Weaver, Zook
Instructor: Shropshire
Lecturers: Fitzgerald, P. Guerin

Required for Professional Option in Accounting: 8 courses

- Accounting 201, 202, 303, 304, 405, 406, 407, 480

Accounting 101. (F)
PRINCIPLES OF ACCOUNTING I
3 credits
Training in the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a single proprietorship, partnership, and corporation.

Accounting 102. (S)
PRINCIPLES OF ACCOUNTING II
3 credits
The relationship between understanding accounting procedures and using accounting data effectively; the interrelationships between financial statements and the methods of accumulating data for these statements and how the particular accounting methods used influence business decisions. Problems include depreciation methods, inventory valuation, alternative methods of obtaining capital and the measurement and control of costs within the corporate entity. Prerequisite: Accounting 101.

Accounting 201. (F)
ACCOUNTING THEORY I
3 credits
Theories and problems involved in proper recording of transactions and preparation of financial statements. Review of accounting cycle, discussion of financial statements, analysis of theory as applied to transactions affecting current assets, current liabilities, long-term investments, and their presentation on the balance sheet. Prerequisite: Accounting 102.

Accounting 202. (S)
ACCOUNTING THEORY II
3 credits
Detailed presentation of theory as applied to plant and equipment, intangible assets, long-term debt, capital stock and surplus; correction of errors of prior periods; analysis of financial statements; statement of application of funds. Prerequisite: Accounting 201.

Accounting 303. (F, S)
COST ACCOUNTING
3 credits
Basic principles applied to job cost and process cost systems. Topics include: purchasing and issuing of materials and maintenance of perpetual inventory records, control of labor, methods of distributing factory overhead expenses, evaluation of problems involved in shrinkage and idle time, forms used in job and process cost systems, and discussion of the place of cost accounting in modern enterprises. Prerequisite: Accounting 102.

Accounting 304. (F, S)
AUDITING
3 credits
A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics, and legal liability. Prerequisite: Accounting 202.
Accounting 310. (F)  
FINANCIAL STATEMENT ANALYSIS 3 credits  
Comparative analyses by percentages, ratios, trends, graphic reports, and projections applicable to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisite: Accounting 102.

Accounting 313. (F)  
ADVANCED COST ACCOUNTING 3 credits  
Economic, industrial, and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisite: Accounting 303.

Accounting 405. (F)  
ADVANCED ACCOUNTING THEORY AND PROBLEMS I 3 credits  
A study of home office and branch accounting, mergers, acquisitions and preparation of consolidated financial statements, foreign operations. Prerequisite: Accounting 202.

Accounting 406. (S)  
ADVANCED ACCOUNTING THEORY AND PROBLEMS II 3 credits  
A study of special topics in accounting theory including partnerships, installment sales, estate and trust, and insolvency in connection with realization and liquidation. Prerequisite: Accounting 405.

Accounting 407. (F, S)  
INCOME TAX 3 credits  
Study of Federal tax code as applied to individuals, partnerships, and corporations including exclusions, inclusions, deductions, gains and losses. Review of fiduciary and estate and gift tax.

Accounting 450. (F, S, Summer)  
COOPERATIVE EDUCATION 3 credits  
Consult with department chairman. Prerequisite: Accounting 202.

Accounting 480. (F, S)  
ACCOUNTING SEMINAR 3 credits  
Research in selected topics of accounting theory. Prerequisite: senior standing.

Accounting 483. (F)  
ANALYSIS OF ACCOUNTING STANDARDS 3 credits  
A review of the interaction of Congress, the SEC and accounting bodies (AICPA, APB, and FASB) in the evolution of accounting standards. APB opinions and FASB statements critically evaluated in light of the various objectives of our accounting system. Prerequisite: senior standing and approval of the chairman.

Accounting 484. (S)  
ACCOUNTING REVIEW 3 credits  
Serves as capstone to the four-year accounting program. An intensive review of accounting theory, managerial cost, auditing standards, and federal taxation. Emphasis on the direct application of theory through the solving of comprehensive and complex problems in accounting, auditing, and taxation. A thorough review for career development and graduate studies; provides sound preparation for the uniform examination given for certified public accountants. Prerequisite: senior standing and approval of the chairman.
HEALTH CARE ADMINISTRATION CONCENTRATION
Coordinated by: Joseph G. Markmann, C.P.A. Accounting Department
Assistant Professor: Brazina
Lecturers: Adams, Sudell, Whitman

Required for Financial Management Option: 15 courses

• Business Core (10 courses)
  - HCA 370, 371, 374, 475, 480

Required for Generalist Option: 4 courses

• HCA 370, 371, 472, 473

HCA 370. (F, S)
INTRODUCTION TO HEALTH CARE ORGANIZATION
AND MANAGEMENT 3 credits
Analyzes the organization and administration of the health care system in relation to regulatory, technological, and financial variables affecting their operation. Managerial tasks of planning, controlling, motivating, and organizing applied to the management of health care institutions.

HCA 371. (F, S)
LEGAL ASPECTS OF HEALTH CARE DELIVERY 3 credits
Provides a fundamental orientation to the field of health care law with specific emphasis upon the duties, authority, and personal liability of the administrator in relation to the governing board, staff, and patients. Legislation and current regulations affecting the administration and delivery of services in health care institutions examined in conjunction with the legal and ethical rights of patients.

HCA 373. (S)
HEALTH CARE ACCOUNTING 3 credits

HCA 472. (F)
HEALTH CARE PLANNING AND POLICY ANALYSIS I 3 credits
Comparative analysis of international health care policies with specific emphasis upon the socio-economic, political, and epidemiology variables influencing health care policy in the U.S. Planning methodologies examined from the perspective of area-wide planners in relation to their impact upon the evaluation of current health care policy in the U.S. Forecasting techniques to project regional and community need for specialized, ambulatory, in-patient, and long-term care services are examined within a systems perspective. Prerequisite: HCA 370.

HCA 473. (S)
HEALTH CARE AND POLICY ANALYSIS II 3 credits
Systems analysis of the various organizational factors influencing institutional policy formulation and managerial decision-making. Roles and relationship of the governing board, medical/professional/non-professional staff and administrator discussed in relation to their impact upon institutional policies. Practicum experience and seminar are integral components of this course. Prerequisite: HCA 472.
HCA 475. (F)
FINANCIAL MANAGEMENT OF HEALTH CARE INSTITUTIONS 3 credits
Analyzes the financial environment of health care institutions. Sources of revenue such as BC/BS, Medicare/Medicaid, and public grants examined in relation to current operating costs. Alternate methods of financing capital investment (community facilities grants/hospital authority bonds) explored in conjunction with capital expenditure controls such as certificate of need and 1122 requirements. Hospital accounting principles, management reporting systems, and benefit analysis, evaluation applied in the analysis of these topics. Prerequisites: Finance 201, 300; HCA 370, 374.

HCA 480. (S)
SEMINAR IN HEALTH CARE FINANCIAL MANAGEMENT 3 credits
Theoretical principles of health care financial management applied in a supervised practicum in a health care institution. Selected topics related to health care financial management and practicum experience examined in the seminar component. Prerequisite: HCA 475.

INTERNATIONAL STUDIES CONCENTRATION
Directed by: Joshua Buch, Ph.D., Finance Department
(See page 89 for requirements.)

BUSINESS LAW
(See Law)

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FINANCE
KENNETH L. RHODA, Ph.D., Chairman
Associate Professors: Barenbaum, Buch, Kelly, Rhoda, Schubert, Woods
Assistant Professors: McCann, Olson

Required for Professional Option in Finance: 4 courses
• Finance 304, 306
• Two courses from among the following: Finance 301, 313, 314, 402, 403, 420, 480
• Application may be made in the Spring semester of the Junior year to participate in the Departmental Honors Program during the Senior year. Six credits are earned in lieu of one Finance elective and one free (non-Finance) elective. Consult department chairman for details.

Finance 201. (F, S)
PRINCIPLES OF FINANCE 3 credits
The study of money and financial markets including stock and bond markets; commercial banks and their competitors as participants in the market for money and the importance of Federal Reserve policy on their operations.

Finance 300. (F, S)
FUNDAMENTALS OF FINANCIAL MANAGEMENT 3 credits
An introduction to the essentials of financial management with an emphasis on time value of money, capital budgeting, financial statement analysis, financial forecasting, and risk analysis. Prerequisites: Accounting 102, Mathematics 111, Quantitative Analysis 213.

Finance 301. (F, S)
INTRODUCTION TO INVESTMENT AND SECURITIES MARKETS 3 credits
The study of security markets with emphasis on the investor. Topics covered: instruments; the organization and functioning of the stock market security market regulations; and an introduction to security analysis. Prerequisite: Finance 201.
**Finance 304. (F, S)**  
INTERMEDIATE CORPORATION FINANCE  
3 credits  
A continuation of Finance 300. Application of analytical tools and concepts to the business decision process. Case studies, a computer based financial simulation game, and outside readings are used to bridge the gap between theory and practice. Prerequisite: Finance 300.

**Finance 306. (F, S)**  
FINANCIAL MARKETS AND INSTRUMENTS  
3 credits  
Analysis of the flow of funds in U.S. financial markets; monetary policy; interest rate determination and the characteristics of money and capital markets and instruments. Prerequisite: Finance 201.

**Finance 313. (F)**  
PENSION AND ESTATE PLANNING  
3 credits  
An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets including portfolio considerations. Profit sharing plans and individual retirement plans are also covered. Same as RMI 313. Prerequisites: RMI 301 or 303, and FIN 201.

**Finance 314. (F)**  
RISK MANAGEMENT  
3 credits  
Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as RMI 314. Prerequisites: RMI 301 and QNT 213 (or equivalent).

**Finance 402. (S)**  
INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT  
3 credits  
Analytical techniques are used to investigate market efficiency and portfolio construction and performance evaluation. Analysis of the bond market, stock market, financial futures, options and international portfolio diversification. Prerequisites: Finance 301 or 306.

**Finance 403. (F, S)**  
INTERNATIONAL FINANCE  
3 credits  
The study of multinational business practice, direct foreign investment, and managerial challenges in operating abroad. Foreign exchange markets and exchange determination; international banking and balance of payments issues. Same as Marketing 403. Prerequisites: Marketing 201, Finance 201.

**Finance 420. (S)**  
FINANCIAL MANAGEMENT OF THE INSURANCE FIRM  
3 credits  
A functional course emphasizing the interrelationships among underwriting, investment, regulation and other aspects of insurance company and insurance agency operations. Dynamic computer models of a property-liability insurer and a life insurer are used to demonstrate effective financial management of the insurance firm. Same as RMI 420. Prerequisites: RMI 301 or 302 and FIN 201.

**Finance 480. (S)**  
SEMINAR IN FINANCE  
3 credits  
Selected topics in the area of finance studied in depth under the direction of staff. Prerequisite: Senior standing.
LAW
Associate Professor: Domineske
Lecturers: Ackerman, Gembala, Shuman, Tracer

Law courses may be taken as electives. Law 201 is required of all business administration students. The department of finance coordinates the courses.

Law 201. (F, S)
LAW OF CONTRACTS
3 credits
Introduces the students to the more common rules and principles governing business transactions; the rights and duties of individuals resulting from contractual and quasi-contractual obligations.

Law 202. (F, S)
LEGAL ENVIRONMENT OF BUSINESS
3 credits
A study of the politico-legal framework within which business operates. The nature, formation, and application of law to business; the historical development and present constraints upon decision making; the interface of business and the whole of its legal settings. Legal procedure, judicial, legislative, and administrative law considered in perspective.

Law 301. (F)
LAW OF AGENCY, PARTNERSHIPS, AND CORPORATIONS
3 credits

Law 302. (F)
LAW OF SALES AND SALES FINANCING
3 credits
Common and statute laws relating to the sale, purchase, transfer, and bailment of personal property. Emphasis on the Uniform Commercial Code relative to sales, sales financing, and secured transactions. Includes the legal relationship of bailor and bailee, shippers, and common carriers.

Law 401. (S)
LAW OF REAL ESTATE
3 credits
Common and statute law of court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title.

Law 402. (S)
LAW OF NEGOTIABLE INSTRUMENTS
3 credits
Application of the common law of the Uniform Commercial Code to checks, promissory notes, and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper.

MANAGEMENT
JOSEPH SELTZER, Ph.D., Chairperson
Professors: Goldner, Joglekar, Halpin
Associate Professors: Chaganti, Korzeniowski, MacLeod, Seltzer, Troxell
Assistant Professors: Damanpour, Meisel, Miller, Rappaport, Szabat
Instructors: Deane, Tavana

Required for Professional Option in Management: 4 courses
Requirements for each of the several available concentrations are listed below. Students whose goals are not met by one of these concentrations may design an individualized program in consultation with the chairperson.
Concentrations:
- Operations Management: Management 304 or 305, 401 or 404 or 480; any 2 of: Management 306, MIS 301, Quantitative Analysis 301, 302, 303
- Organization Behavior: Choose courses from each group:
  
  **Group 1** (choose 3)
  - PLR 300, 307

  **Group 2** (choose 1)
  - Management 401, 404, 480

- Management of Public Systems: MIS 301; Management 305; Quantitative Analysis 214, 301. Two additional courses in arts and sciences from among the following: Economics 404, Computer Science 254, Political Science 247, Economics/Sociology 320 and 321, Sociology 203, 207, Psychology 364, Management 481.

Management 201. (F, S)
**Organization and Management of Human Resources**

Interpersonal and intergroup perception, communication, individual motives, organizational structure, leadership and management styles and their influences on human behavior, considerations of costs, efficiency, morale, effectiveness, traditional and modern organization theories, centralization vs. decentralization. Experiential approach supplemented with cases and readings.

Management 300. (F, S)
**Introduction to Operations Management**

Plant layout, plant location, work methods, inventory control, scheduling, productivity measurement, incentive systems, interrelationships with other departments. Problems from various service and manufacturing industries. Quantitative appreciation of techniques like EOQ, expected values. Use of packaged computer programs. Prerequisites: Mathematics 111, 112, Quantitative Analysis 213.

Management 303. (F)
**Creative Thinking and Decision Making**

Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision making analyzed and evaluated in writing. Comprehensive reports required. Prerequisites: Management 201, 300, Business Core.

Management 304. (F)
**Production Planning and Control**

Inventory control systems, PERT/TIME, PERT/COST, design of production control system, product mix problems, transportation problems and scheduling, forecasting and planning, automation and related problems. Applications to manufacturing industries. Prerequisite: Management 300. Not to be taken if Management 305 is taken.

Management 305. (S)
**Planning and Control in Service Industries**

Selected topics in planning and control, such as inventory control systems, PERT, scheduling, forecasting, queuing theory, system design. Applications in several service institutions like hospitals, airlines, banks, post offices, schools, telephone companies, utilities, etc. Prerequisite: Management 300. Not to be taken if Management 304 is taken.

Management 306. (F, S)
**Corporate Planning and Management Control**

The nature and principles of corporate planning, relationship of planning to management control, and the structure and process of management control in organizations. Prerequisite: Management 201.

Management 307. (S)
**Organizational Analysis**

Develops an understanding of the nature of organizations. The interaction of organizational structure and process explored through readings and case studies. Current organizational theories and concepts used as practical tools in the study of organizational issues. Prerequisite: Management 201.
Management 350. (F, S)
EFFECTIVE COMMUNICATION 3 credits
An examination of the process of communication in personal and organizational settings. Focus on the individual's styles and patterns of communicating, verbal and nonverbal modes, self-image, listening, perception, and barriers to effective communication. Emphasizes building communication skills through active participation in experiences and discussions in class. Limited enrollment. Course generally equivalent with Psychology 350. Prerequisite: permission of instructor.

Management 401. (F, S)
BUSINESS POLICY 3 credits
Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing, strategic planning and implementation; analysis and discussion of actual or simulated situations. Prerequisite: senior standing.

Management 404. (F, S)
SMALL BUSINESS CONSULTING 3 credits
The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisites: Management 201, 300, Business Core.

Management 450. (F, S, Summer)
COOPERATIVE EDUCATION 3 credits
A paid, managerial job (minimum duration: 16-week full-time equivalent) in an area firm or government agency. Appropriate job related learning assignments under faculty supervision. Consult department chairman.

Management 480. (S)
SEMINAR IN MANAGEMENT 3 credits
Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Integrates all management and other business courses. Comprehensive reports required. Prerequisite: senior standing.

Management 481. (F, S)
MULTINATIONAL MANAGEMENT 3 credits
Study of the conduct of business in foreign countries from a managerial point of view. Topics pertaining to the multinational industrial and commercial activities of American enterprises presented and discussed. The United States' involvements and relations with foreign organizations such as OPEC, OCED, and ECM analyzed. United Nations regulations, commitments, and protections examined. Prerequisite: Business Core.

MANAGEMENT INFORMATION SYSTEMS (MIS)
Associate Professor: Troxell
Assistant Professors: Damanpour, Rappaport

The management department coordinates these courses.

Required for Professional Option in Management Information Systems: 4 Courses
• MIS 301, 302, 401, Computer Science 154

MIS 301. (F, S)
INTRODUCTION TO INFORMATION SYSTEMS 3 credits
Definition and role of an information system in the organization with emphasis on the gross design. Long range planning and control, organizational levels, decision making process and systems planning. Stages in information system design: systems requirements, feasibility study, systems analysis, hardware and software capabilities and implementation. Prerequisite: Computer Science 151.
MIS 302. (F, S)  
MANAGEMENT INFORMATION SYSTEMS DESIGN  
3 credits  
Managing the system development process. Detailed coverage of the principles and procedures for the design, implementation and evaluation of information systems. User requirements, performance specification, data collection, input and output design, application programming and testing, implementation planning, training, systems maintenance. Prerequisite: MIS 301.

MIS 401. (S)  
INFORMATION SYSTEMS MANAGEMENT: A PROJECT COURSE  
3 credits  
Exposure to application of information systems in real organizations. Developing a complete information system using the structured design approach. Development of alternative designs and systems modeling. Computer hardware and software requirements. Prerequisites: MIS 301, Computer Science 154, or permission of instructor.

MARKETING

ANDREW G. BEAN, Ph.D., Chairman  
Associate Professors: McCloskey, Reifsteck, Swoyer  
Assistant Professor: Bean  
Instructors: Dunseth, German, Javie  
Lecturers: Eisenberg, Liss, Remley, Willig

Required for General Option in Marketing: 4 courses
  • Marketing 301, 302, 401, 402

Required for Logistics Option in Marketing: 5 courses  
  • Marketing 301, 303, 304, 404, 405

Marketing 201. (F, S)  
PRINCIPLES OF MARKETING  
3 credits  
Principles and factors relating to the marketing functions in the American economy. The nature, significance and functions of marketing; consumer motivation; behavior and buying problems; wholesaling and retailing of consumer goods; marketing industrial goods and raw materials; market research and merchandise development; buying, selling, price policies and practices; channels of distribution; and governmental relationships to marketing.

Marketing 301. (F)  
PERSONAL SELLING  
3 credits  
The importance and practice of individual selling in the economy. Sales personality, the phases of a sales presentation, types of buyers, and ethics in salesmanship. Prerequisite: Marketing 201.

Marketing 302. (S)  
ADVERTISING  
3 credits  
Economic and social aspects of advertising, including the important methods and techniques of research which form the basis of any advertisement or advertising campaign; a practical treatment of copy, layout and media; effectiveness of advertising, advertising departments and the advertising agency. Prerequisite: Marketing 201.

Marketing 303. (S)  
SALES MANAGEMENT  
3 credits  
The activities of a sales manager in directing and controlling a sales force: recruiting, selecting, training, compensating, motivating, and supervising salesmen; establishment of sales territories, quotas, and budgets. Prerequisites: Marketing 201 and junior standing.
Marketing 304. (F)
INDUSTRIAL MARKETING 3 credits
Products, services, and administration related to industrial marketing of capital equipment, technology, and commodity items as well as systems. Planning (research sources, analysis, projection) and administration (advertising, promotion, audiences, result measurement), and case study supplemented by conventional lecture and discussion. Prerequisite: Marketing 201.

Marketing 401. (F)
MARKETING RESEARCH 3 credits
The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results, and report presentation. Prerequisites: Quantitative Analysis 213, Marketing 201, Mathematics 112.

Marketing 402. (S)
MARKETING MANAGEMENT 3 credits
Integrates all other marketing courses. Study of actual business cases employing managerial approach to marketing; emphasis on decision making and the strategies used by the marketing manager as he adapts his marketing mix to rapidly changing conditions. Prerequisite: senior standing or permission of the instructor.

Marketing 403. (F)
INTERNATIONAL COMMERCE 3 credits
Factors conditioning the feasibility of direct private foreign investment, recent trends, and managerial problems in operating abroad; case studies of experiences of U.S. firms having foreign operations. Identical with Finance 403. Prerequisites: Marketing 201, Finance 201.

Marketing 404.
WHOLESALING 3 credits
In-depth study of various types of middlemen, distributors and agents, focusing on their contribution to the distribution channel. Integrated wholesaling and coops and understanding of the functions performed and services offered. Prerequisite: Marketing 201.

Marketing 405.
MARKETING CHANNELS 3 credits
The marketing approach to physical distribution focusing on transportation, warehousing, channels, physical distribution systems, geography, material handling and planning and their effect on successful marketing. Prerequisite: Marketing 201.

SPECIAL TOPICS

Marketing 271. (S)
CONSUMER BEHAVIOR 3 credits
A study of the consumer to allow the marketing manager to develop better marketing strategies. The course looks at the complex nature of the human being in terms of the social, cultural, psychological, and economic dimensions of man as they apply to this decision making and acquisitive nature. Prerequisite: Marketing 201.

Marketing 272. (F)
RETAILING 3 credits
A study of the managerial aspects of the retail institution as part of the total marketing system. The course concentrates on the environmental forces impinging on the system, the role of retailing and the management of retail institutions. Prerequisite: Marketing 201.

Marketing 273. (F)
PURCHASING AND MATERIALS MANAGEMENT 3 credits
A study of purchasing and materials management systems and their interrelationship with other organizational functions. Legal aspects of contracts and agency, vendor relationships, and the marketing/purchasing interaction. Simulated negotiation sessions to develop essential bargaining skills. Prerequisite: Marketing 201.
PERSONNEL AND LABOR RELATIONS (PLR)

Professor: Halpin
Associate Professor: Korzeniowski
Lecturer: Marks

The department of management coordinates the courses in this area.

Required for Professional Option in Personnel and Labor Relations: 4 courses

- Required: PLR 300, 301, 401
- Choose One: PLR 303, 304, or 307

PLR 300. (F, S)
PERSONNEL ADMINISTRATION 3 credits
Designed to train students to analyze existing programs, to adapt procedures and to develop original methods which will insure efficient personnel administration. Job analysis; policy determination and administration; selection, promotion, transfer, and E.E.O.; health, safety, and OSHA.

PLR 301. (F, S)
LABOR PROBLEMS IN AMERICA 3 credits
Sources of the union movement, its history, structure, and functions. Development of economic, political, and social power; problems involved in the use of this power; management rights and management reaction to unions. Outside readings and term paper required.

PLR 303. (F)
LABOR LEGISLATION 3 credits
Analysis of the important federal and state statutes affecting labor-management relations, including the Railway Labor Act of 1926, the Norris-LaGuardia Act, the Taft-Hartley Act, the Landrum-Griffin Act, Title 5, Chapter 71, the Federal Service Labor-Management Relations Statute, and Pennsylvania's Public Employee Relations Act. Prerequisite: Relations 301. Outside readings and legal research problems required.

PLR 304. (S)
WAGE, SALARY, AND BENEFIT ADMINISTRATION 3 credits
Study of compensation policies and practices. Emphasis on job evaluation, rate ranges, incentive plans, and benefit programs. Federal and state laws examined. Field work and legislative research report required.

PLR 307. (F, S)
HUMAN RESOURCE DEVELOPMENT 3 credits
The study of employee training and career development of personnel in organizations. Emphasis on designing, evaluating, and managing training and development programs. Examination of training and development programs applied to specific employee groups.

PLR 401. (S)
COLLECTIVE BARGAINING 3 credits
External and internal factors influencing the establishment of trade agreement and application of these provisions to day-to-day employer-employee problems through an analysis of authentic cases drawn from manufacturing and service industries. Prerequisites: PLR 300 or 301. Outside readings, research problems, and student reports required.

PLR 450.
COOPERATIVE EDUCATION 3 credits
Identical to Management 450.
QUANTITATIVE ANALYSIS

Associate Professor: Troxell
Assistant Professors: Damanpour, Miller, Rappaport, Szabat

The department of management coordinates the courses in this area.

Required for Professional Option in Quantitative Analysis: 4 courses

• Quantitative Analysis 214, 301, 302, 303

Quantitative Analysis 213. (F, S)
INTRODUCTION TO BUSINESS STATISTICS
Theory, methods, and applications of descriptive and inferential statistical techniques for management problem solving. Prerequisite: sophomore standing.

Quantitative Analysis 214. (F, S)
INTERMEDIATE STATISTICS
Statistical inference; tests of significance; chi square, analysis of variance; multiple and partial regression and correlation procedures. Other methods of analyzing data. Prerequisite: Quantitative Analysis 213.

Quantitative Analysis 301. (F)
QUANTITATIVE TECHNIQUES IN DECISION MAKING
Decision theory, value of information, sensitivity analysis, dynamic programming and other methods of decision making. Prerequisites: Quantitative Analysis 213, Management 300.

Quantitative Analysis 302. (S)
STATISTICAL QUALITY ASSURANCE
Control charts for variable and attributes, acceptance sampling plans; costs of quality. Prerequisite: Quantitative Analysis 213.

Quantitative Analysis 303. (S)
TOPICS IN APPLICATION OF STATISTICS
Selected topics from nonparametric statistics and sample survey methods, Bayesian statistics, design of experiments, and other applications. Prerequisite: Quantitative Analysis 214.

RISK MANAGEMENT AND INSURANCE CONCENTRATION (RMI)

Coordinated by: James M. Kelly, Ph.D., Finance Department
Associate Professor: J. Kelly
Lecturer: McNichol

Required: any four RMI courses

RMI 301. (F)
FUNDAMENTALS OF RISK AND INSURANCE
Introduction to the underlying principles, practices, and the legal aspects of risk management and insurance; survey of life, health, fire, marine, fidelity and corporate surety, workers' compensation, title, and credit insurance.

RMI 302. (S)
INTRODUCTION TO LIFE INSURANCE
The problems of alternative techniques for insuring of human life values considered from the differing viewpoints of the company, the economy, and the consumer. Financial needs in the life cycle of the family; estate planning; elements of business insurance, such as group life and health insurance and pensions planning; mortality; underwriting; and regulation of reserves.
RMI 311. (S)  
HEALTH CARE INSURANCE  
3 credits  
An interdisciplinary approach to the techniques and problems of financing health care with emphasis on prepayment devices, including medical insurance benefit systems, Blue Cross-Blue Shield prepayment plans, independent prepayment plans, and medical expense benefits through social insurance and social welfare programs. Effects of financing methods on the availability, quality, and planning of health care explored.

RMI 312. (S)  
PROPERTY AND LIABILITY CONTRACTS  
3 credits  
Detailed examination of the major commercial policies and forms as well as the principal individual policies. Included are fire and allied lines, business interruption and extra expense coverage, ocean and inland marine, crime, liability, auto and workmen's compensation policies along with bonding. Prerequisite: RMI 301.

RMI 313. (F)  
PENSION PLANNING  
3 credits  
An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets including portfolio considerations. Profit sharing plans and individual retirement plans are also covered. Same as Finance 313. Prerequisites: RMI 301 and 303, and FIN 201.

RMI 314. (F)  
RISK MANAGEMENT  
3 credits  
Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as Finance 314. Prerequisites: RMI 301 and QNT 213 (or equivalent).

RMI 420. (S)  
FINANCIAL MANAGEMENT OF THE INSURANCE FIRM  
3 credits  
A functional course emphasizing the interrelationships among underwriting, investment, regulation and other aspects of insurance company and insurance agency operations. Dynamic computer models of a property-liability insurer and a life insurer are used to demonstrate effective financial management of the insurance firm. Same as Finance 420. Prerequisites: RMI 301 or 302 and FIN 201.

SPECIAL OPTIONS

Students whose goals are not met by one of these concentrations may design an individualized program in consultation with the chairman.
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### STUDENT AFFAIRS ADMINISTRATION

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<tbody>
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<td>Vice-President, Student Affairs</td>
<td>RAYMOND P. HEATH</td>
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# ACADEMIC CALENDAR

## 1985-1986

### Fall Semester

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<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 27-29</td>
<td>On-campus registration—9:00 A.M. to Noon</td>
</tr>
<tr>
<td>September 4</td>
<td>Beginning of classes</td>
</tr>
<tr>
<td>September 10</td>
<td>Last day for change of roster</td>
</tr>
<tr>
<td>October 20</td>
<td>Academic Convocation</td>
</tr>
<tr>
<td>October 28</td>
<td>Mid-semester holiday</td>
</tr>
<tr>
<td>November 12</td>
<td>Mid-semester grades due</td>
</tr>
<tr>
<td>November 7</td>
<td>Last day for withdrawal from courses</td>
</tr>
<tr>
<td>November 28-29</td>
<td>Thanksgiving holidays</td>
</tr>
<tr>
<td>December 11</td>
<td>Classes end for fall semester</td>
</tr>
<tr>
<td>December 12</td>
<td>Reading Day</td>
</tr>
<tr>
<td>December 13-19</td>
<td>Final examinations</td>
</tr>
</tbody>
</table>

### Spring Semester

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 8,9</td>
<td>On-campus registration—9:00 A.M. to Noon</td>
</tr>
<tr>
<td>January 20</td>
<td>Beginning of classes</td>
</tr>
<tr>
<td>January 31</td>
<td>Last day for change of roster or removal of “I” grades</td>
</tr>
<tr>
<td>March 10-14</td>
<td>Mid-semester holiday</td>
</tr>
<tr>
<td>March 19</td>
<td>Mid-semester grades due</td>
</tr>
<tr>
<td>March 19</td>
<td>Last day for withdrawal from courses</td>
</tr>
<tr>
<td>March 28</td>
<td>Easter recess begins</td>
</tr>
<tr>
<td>April 1</td>
<td>Classes resume at 8:30 A.M.</td>
</tr>
<tr>
<td>May 2</td>
<td>Classes end for spring semester</td>
</tr>
<tr>
<td>May 5-9</td>
<td>Final examinations</td>
</tr>
<tr>
<td>May 18</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

*Photography by Martha Ledger, Lewis Tanner and Fabian Bachrach.*