La Salle College Bulletin: Catalog Issue 1972-1973

La Salle University

Follow this and additional works at: http://digitalcommons.lasalle.edu/course_catalogs

Recommended Citation
http://digitalcommons.lasalle.edu/course_catalogs/96

This Article is brought to you for free and open access by the University Publications at La Salle University Digital Commons. It has been accepted for inclusion in La Salle Course Catalogs by an authorized administrator of La Salle University Digital Commons. For more information, please contact careyc@lasalle.edu.
ACCREDITATION AND MEMBERSHIP

La Salle College 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, and the Pennsylvania State Board of Law Examiners.

The College is a member of the American Council on Education, the Association of American Colleges, the College Entrance Examination Board, the American Association of Collegiate Registrars and Admissions Officers, the Association of College Admissions Counselors, the National Catholic Educational Association, the College and University Council of Pennsylvania, the Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, the Pennsylvania Catholic Education Association, the American Library Association, the National Commission on Accrediting, the American Catholic Historical Society, the Educational Conference of the Brothers of the Christian Schools, and the National Association for Foreign Student Affairs.
# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Profile of La Salle</td>
<td>5</td>
</tr>
<tr>
<td>The History</td>
<td>5</td>
</tr>
<tr>
<td>The Campus</td>
<td>6</td>
</tr>
<tr>
<td>The People</td>
<td>7</td>
</tr>
<tr>
<td>The Academic Life</td>
<td>9</td>
</tr>
<tr>
<td>The Social Life</td>
<td>10</td>
</tr>
<tr>
<td>The Philosophy and Objectives</td>
<td>11</td>
</tr>
<tr>
<td>General Reference</td>
<td>12</td>
</tr>
<tr>
<td>Admissions</td>
<td>12</td>
</tr>
<tr>
<td>Expenses</td>
<td>17</td>
</tr>
<tr>
<td>Scholarships and Financial Assistance</td>
<td>19</td>
</tr>
<tr>
<td>Academic Programs and Procedures</td>
<td>23</td>
</tr>
<tr>
<td>School of Arts and Sciences</td>
<td></td>
</tr>
<tr>
<td>Degree Programs</td>
<td>31</td>
</tr>
<tr>
<td>Curriculum</td>
<td>32</td>
</tr>
<tr>
<td>Course Descriptions</td>
<td>37</td>
</tr>
<tr>
<td>School of Business Administration</td>
<td></td>
</tr>
<tr>
<td>Degree Programs</td>
<td>97</td>
</tr>
<tr>
<td>Curriculum</td>
<td>98</td>
</tr>
<tr>
<td>Course Descriptions</td>
<td>101</td>
</tr>
<tr>
<td>Directory</td>
<td>113</td>
</tr>
<tr>
<td>College Administration</td>
<td>113</td>
</tr>
<tr>
<td>Faculty of the College</td>
<td>117</td>
</tr>
<tr>
<td>Index</td>
<td>126</td>
</tr>
<tr>
<td>Calendar</td>
<td>128</td>
</tr>
</tbody>
</table>
A Profile of La Salle

The History

La Salle College was founded in 1863 by a group of brothers, priests, and laymen. The nucleus for the new college was the Academy conducted by the Christian Brothers as an adjunct to St. Michael's School. Later the College moved downtown to a site in center city at Juniper and Filbert Streets. Outgrowing that location, La Salle moved north on Broad Street and began a 43 year stay at the Bouvier Mansion at 1240 North Broad Street.

In 1929, the expanding College made its last move. The new site on the edge of Germantown was part of historic Belfield Farm, once the home of American painter Charles Willson Peale. The College experienced some difficult years in its new home as first the depression then the war depleted the student population.

Just before the war ended, La Salle's enrollment was 90 students. A year later the campus was bulging with 1,200 veterans and a new chapter in La Salle's history had begun. In meeting the postwar demand for education, La Salle became virtually a new college.

A small college no more, La Salle reorganized its administrative structure in keeping with its new size. In 1946, the Evening Division was founded, meeting the needs of the metropolitan area so well that its present enrollment equals that of the Day Division. The College admitted women as full time day and resident students in 1970.

Physically, the campus has been transformed. To meet the needs of 3,000 day students and a similar number at night, the College has been building continually for the past twenty years. Additions have included a library, a College Union, nine residence halls, a Science Center, a biological field station, a new classroom and faculty office building and an athletic facilities building, Hayman Hall.

This remarkable physical growth has been matched by a comparable academic development. Studies have shown a continuing improvement in the credentials of each entering class. A thriving honors program is in operation. A $400,000 library development program has substantially increased the library's holdings. The curriculum has been revised to provide greater flexibility and emphasis on individual effort. An exhaustive self-study conducted by the College between 1963 and 1966 analyzed past progress and present and future needs, culminating in a ten year plan for continued improvement in every facet of teaching and learning.
The Campus

For a city college, La Salle's campus is surprising. Tucked behind the brick facades on Olney Avenue is a pleasantly green and peaceful tract of about forty acres. Though buses stop at the door and the subway is only a few blocks away, the campus benefits from some of the country-like aspects of its site. Across 20th Street is historic Belfield, one of the few farms within the city limits. South of the campus lies Wister Woods, now a part of Fairmount Park. The result of these happy accidents of locale is that the campus retains a somewhat suburban atmosphere while losing none of the advantages of being an urban college.

In Philadelphia, these advantages are both educational and cultural. The city has a noteworthy group of educational institutions, with a variety of specialized libraries. Its Orchestra and museums are internationally famous. Most of the city's cultural and historical resources are within convenient commuting distance from the campus.

Architecturally, the buildings on campus reflect the history of the College's growth, ranging from the traditional collegiate Gothic to the modern.

In addition to the classroom buildings (College, Wister, Holroyd, and Olney Halls), and the residence halls, the campus has the David L. Lawrence Memorial Library, the College Union, and the Hayman Hall athletic facilities.

Over 190,00 volumes are housed in the air conditioned Lawrence Library, along with reading rooms and files of some 700 periodicals. The College Union is a center of student activities, containing dining rooms, lounges, a theatre, and activities offices. The newly completed Hayman Hall features a swimming pool and diving well, basketball and squash courts, an indoor track, a sauna bath, and other athletic facilities.
The People

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 and the teachers—who give the College its character. You may well ask, “What are they like, these people with whom I may spend my next four years?”

Most of the students come from the northeastern states, but there are representatives from 21 states and 14 foreign countries. Studies of student characteristics reveal that 75% of the students will probably pursue graduate or professional studies. A majority of them selected “to broaden intellectual interests” when asked to identify their goal in coming to college. Such interest promotes a common bond between majors in a particular subject that often ripens into permanent friendships that are continued in alumni professional groups.

Your teachers at La Salle are Christian Brothers, priests, and lay professors. All of them share the same goal: to be of as much help to you, the student, as they can be. St. La Salle’s dedication to teaching is the informing spirit of the College, 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 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 will be invited to participate in the Pre-College Counseling Program. Several forms will be mailed to you to complete at home and these will become part of your personal file in the Counseling Center. Later you will come to the campus for a full day of conferences with the Counseling Center staff. At this time you will have an interview with your counselor to discuss your edu-
cational and career plans. Besides this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are unsure of your major or of your vocational plans, the staff is happy to assist you in making a sound choice based on your own interests and capabilities. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs, selective service, and a variety of occupations.

As an additional part of your pre-college experience, you will be invited to attend a Freshman Forum arranged to help you get acquainted with the College and with some of your new classmates. In the informal atmosphere of small group discussions, you have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same problems, and with faculty members and administrators anxious to be of help. You will have the opportunity to choose either the Forum or the Pre-College Counseling Program. The Forum is an overnight program which includes all elements of the Pre-College Counseling Program. The aim of the summer programs is to make your psychological and social adjustment to college life as pleasant as possible.

Nor is your physical well-being neglected while you are on campus. A College 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 human side 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.
The Academic Life

"The only privilege a student had that was worth his claiming," wrote Henry Adams, "was that of talking to the professor, and the professor was bound to encourage it." La Salle professors do encourage it, and classes are small enough to permit discussion and personal relationships with your teachers.

The result is an academic environment where learning and intellectual development are nourished. In more concrete terms, the result is the gratifyingly high number of prestige awards won by La Salle graduates.

The presence at La Salle of good teachers, a fine library, and uncrowded classes are all helpful to your academic success, but the actual achievement of your academic goals is ultimately up to you.

The most important adjustment to collegiate life you will have to make is in learning to budget your time wisely. No one will force you to learn; no one can. Instead, you will be treated as a mature, intelligent person. You will be given assigned readings, papers, and projects in research to be turned in by a certain date. You yourself must plan when these assignments will be done; you yourself must bear the responsibility for meeting standards set by your instructors.

The standards for academic achievement are treated in some detail in the reference section of this catalog and need not be discussed here. The important thing for you to realize about the academic side of your college life is that it is the central test of your maturity and sense of responsibility. Learning is sometimes hard work, but it is the most rewarding kind of effort, not only in grades but in the self-satisfaction of having met a difficult challenge successfully.

But the academic side of college is not just a bleak picture of challenges, responsibilities, and standards. The academic side really offers one of the deepest, most lasting joys a person can experience—the joy of understanding.

Suddenly some part of human experience fits into a pattern for you; suddenly you understand why. The best part of the joy of understanding is that it is endless. The deeper your understanding goes, the deeper the satisfaction you experience.

Perhaps you haven't yet discovered this kind of joy; you may even doubt that it exists. Yet when you first experience it, you will begin to understand what education is all about and why many people willingly devote their lives to study and research.
The Social Life

The social side of college life should be a vital part of your educational experience. In living with others, planning activities together, and sharing your ideas in hours of informal discussion you are learning much that is a desirable part of liberal education. You are learning to understand and respect differing points of view; you are learning to discover new relationships and to develop your own convictions.

An important part of college, therefore, is the opportunity to share your concerns, to test your thinking in conversations and meetings with your peers, other men and women of your age who are trying to discover themselves just as you are.

Though this kind of informal relationship with other students has deep and permanent effects and cannot by its nature be planned or organized, it is often nurtured by common interests in organized activities. A lecture, for example, by a visiting celebrity from the world of politics or literature may kindle student discussions in the Snack Bar or the residence halls. Such concerts and lectures are weekly occurrences at La Salle.

Athletics too may develop common interests among students, whether they are participants or spectators. The athletic program encourages both intramural and intercollegiate competition. Varsity teams from La Salle have often been leaders in basketball, baseball, swimming, track, cross-country, crew, soccer, golf, and tennis. Varsity teams for women now include basketball, field hockey, and softball.

La Salle's reputation for excellence in drama rests on the work of The Masque and Theatre La Salle, who collaborate on two productions during the school year, and on the widely acclaimed Music Theatre productions which regularly draw more than 20,000 people to the campus each summer.
The Philosophy and Objectives

La Salle College is a group of buildings—brick, marble, limestone—situated on a hill overlooking Wister Woods. But it is also a great deal more. It is the embodiment of two great educational traditions: the American tradition of educating citizens in the foundations and spirit of democracy and the roots of western civilization, and the La Sallian tradition of dedicated teaching and concern for the individual, dating back to St. John Baptist de La Salle, founder of the Christian Brothers.

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 College 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 College 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 College encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

As a private Catholic college, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking theological study 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 College 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.
Qualifications for Admission

La Salle College does not discriminate against any applicant for admission because of race, color, creed, or national origin. Admission is based solely upon an applicant’s qualification and ability to meet the established admission requirements.

If you are well-motivated toward a college career and can show evidence of high academic achievement and ability, there is a good chance that the Admissions Committee will look with favor upon your application. In arriving at its decision, the Committee studies your high school record and the scores of your entrance tests, together with recommendations from your high school faculty, guidance counselor, and principal. The following are the specific requirements for admission:

HIGH SCHOOL UNITS

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics:</td>
<td></td>
</tr>
<tr>
<td>Algebra &amp; Plane Geometry or</td>
<td>2</td>
</tr>
<tr>
<td>two years of Algebra</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>1</td>
</tr>
<tr>
<td>Natural Science</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
</tr>
</tbody>
</table>

10 units

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 and Mathematics program 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, N.J. 08540

or

Box 1025, Berkeley, Calif. 94701

OR

ACT— The American College Testing Program
Box 451
Iowa City, Iowa 52240

ACHIEVEMENT TESTS

The CEEB Achievement Tests in English, Mathematics, and Languages are one form of evidence which students may submit to aid the College in placing them in courses appropriate to their abilities. These tests are especially recommended, therefore, to those 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.

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 College.
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 taken during the junior year or the following summer.

The successful applicant must finish the senior year of high school with creditable grades, receive his diploma, and take the College Board Achievement tests for placement in his chosen course programs.
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.

You may secure an application form from the Office of Admissions. When you receive this, you will also receive another form which is to be mailed directly to the College by your high school principal. Send your completed application and the $15.00 application fee to the Office of Admissions; the Director of Admissions will notify you as soon as possible after a decision has been made on your application. If accepted, you are asked to send along a $100.00 deposit with your confirmation. The confirmation deposit is required of all new students to the Day Division including transfers from other colleges. If you do not attend, the entire deposit is forfeited.

ADVANCED PLACEMENT PROGRAM

La Salle College participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the College 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
TRANSFER STUDENTS
Each year a limited number of transfer students will be admitted. The number is limited by available space and academic restrictions. Candidates for admission from colleges which offer courses of study similar to those of La Salle College should submit a transcript of high school work and college work as soon after applying for admission as is possible. All transfer students are required to submit the results of College Entrance Examination Board tests or of the American College Testing Program. A letter of appraisal from the Dean of Students of the college or university attended is also required.

All of these records should be in the Admissions Office at least 60 days before the beginning of the semester for which the student is applying.

The previous college record of the applicant must indicate good academic standing. No applicant will be accepted whose transcript indicates academic or disciplinary probation or dismissal.

A student applying for transfer from a fully accredited college or university should have a grade point average of 2.25 or higher (on a 4.00 scale). 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).

No credit is allowed for courses offered with the lowest passing grade given at the institution from which the applicant is transferring. A maximum of 70 credits may be accepted.

A transfer student may be required to make up certain courses which belong to the sequence required in the program of studies for which he is applying.

La Salle College participates in the College-Level Examination Program of the College Entrance Examination Board. Qualified transfer students and others with advanced preparation 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, N. J. 08540.

No student admitted to advanced standing will be permitted to graduate unless he has completed his senior year as a full time student at La Salle College.

ACCOMMODATIONS FOR RESIDENTS
The College provides residential living for approximately 700 students. A student may live in any one of nine residence halls on campus, several of which are co-ed in that women occupy the upper floor and men the lower. Other halls are all-male or all-female. In their senior year, resident students have the choice of remaining in the residence halls or living in the La Salle apartments, a certain number of which are available to married students on a yearly basis. After indicating on your application your intention to live on campus, you should reserve your room when you confirm your acceptance
with the required $50.00 residence hall deposit. Should you decide not to occupy the room you have reserved, the entire advance deposit is forfeited.

The residence halls are provided with all necessary furniture; you are expected to supply your own linens and blankets. You must also take care of personal laundry, dry cleaning and pressing. Many of the personal items needed, such as toilet articles, laundry cases, towels, and sportswear may be purchased at the Campus Store.

Occupancy may begin the day before classes start and continue until the last day of the final examinations. All residence halls are closed during Thanksgiving, Christmas, Easter vacation, and during the mid-semester break. Residents are permitted cars on campus.

When you live on campus, your meals are served cafeteria-style in the College Union dining halls. Since meals must be planned on the basis of total participation by the resident community, no adjustment in fees can be expected for meals not taken on campus. You are given the option, however, of purchasing a five or seven day meal ticket. Special diets for medical reasons may be arranged through the Director of Food Services. The dining halls are not open during school recesses at Thanksgiving, Christmas, Easter, or between semesters.

The College has provided facilities for the installation of telephone service in each room and if you desire to avail yourself of this service, arrangements can be made with the telephone company. Public telephones are also located on every floor of the residence halls. Calls for residents should not come through the College switchboard.

Recreation for resident students includes not only the varsity sports of the College, but also intramural sports competition among the residence halls. You may also participate in such regularly scheduled campus events as film programs, dances, concerts, lectures and other social functions.

The members of the resident student governing board, the Residence Council, serve as the liaison between the college administration and the resident student in the formulation of policy regarding residential life. Under the auspices of this council, each hall is self-governing in matters of discipline, in that each hall sustains its own judicial board.

**COURSE SELECTION**

Incoming freshmen will receive a course selection form in the mail after they have confirmed their acceptances. 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.
# Expenses

<table>
<thead>
<tr>
<th>Liberal Arts and Business Administration</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition (including all regular College fees)*</td>
<td>$1,820.00</td>
</tr>
<tr>
<td>Counseling Service Fee (for new students only)</td>
<td>25.00</td>
</tr>
<tr>
<td>Freshman Orientation Fee</td>
<td>5.00</td>
</tr>
<tr>
<td>Annual total for commuting students</td>
<td><strong>$1,850.00</strong></td>
</tr>
</tbody>
</table>

Annual room and board for on-campus residents

- (With 7 day meal tickets)** | $1,150.00 |
- (With 5 day meal tickets)** | $980.00 |

*The tuition charge for part time students or for hours taken in excess of normal schedule is $56.00 a semester credit hour.

**Freshmen pay an additional $25.00 for the Fall term orientation period.

There are no additional fees for matriculation; registration; use of laboratories, library, athletic facilities, or dispensary services; participation in student activities; the student newspaper; or the student identification card for admission to athletic events. However, in the face of rising costs, La Salle College 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.
METHOD OF PAYMENT

Students are billed twice a year for one-half of the annual tuition and the room and board costs. Invoices for the Fall semester are due in mid-August and for the Spring semester in mid-December. Payment of the semester invoice within the time prescribed is a prerequisite to the completion of registration and inclusion on the official class lists.

Extended or monthly payments may be provided, but ONLY through the College Bank Loan Program offered by La Salle in collaboration with a Philadelphia Bank. The College does not carry open student accounts. Further information on the Bank Loan Plan is available from the Bursar’s Office of the College.

GRADUATION FEE

A graduation fee of $40.00 is due and payable in the Spring semester in which the individual will receive his degree. The College 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 yearbook, the Senior-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 OR REMISSION OF TUITION

Under certain circumstances, the student who withdraws before the end of a semester may receive a refund or a remission of part of the unpaid balance of his tuition fee. Complete information on terms and conditions may be obtained from the Business Office.
Scholarships and Financial Assistance

No student is denied admission because of financial need. The financial aid program at La Salle College provides opportunities for scholarships, grants, loans, and student employment. 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. La Salle College participates in the College Scholarship Service. Candidates seeking financial assistance are required to submit a Parents' Confidential Statement to the Service. Forms are available at the guidance office of the secondary school or from the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540.

COMPETITIVE SCHOLARSHIPS

Up to thirty tuition scholarships are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. These awards are renewed annually for the remaining three years provided the recipient maintains a 3.0 (B) average. Application forms for these competitive scholarships may be obtained from the Director of the Honors Program. The completed forms must be received by La Salle College no later than February 15th. The applicant must arrange to take the tests of the College Entrance Examination Board in Scholastic Aptitude or the American College Testing Program no later than the January testing date. Arrangements for the tests must be made directly with the College Entrance Examination Board, Princeton, New Jersey. Applicants must request the Board to send results to the Admissions Office, La Salle College, Philadelphia, Pennsylvania 19141.

LA SALLE COLLEGE PRINCIPALS' SCHOLARSHIPS

La Salle College offers fifteen scholarships to students graduating from all Catholic high schools in the Camden and Philadelphia dioceses and from high schools conducted by Christian Brothers of the Baltimore province. Competition is based on academic excellence and extracurricular activities and is restricted to students nominated by their high school principal. Principals' scholarship application forms will be sent directly to nominees designated by the principals.

NATIONAL MERIT SCHOLARSHIPS

La Salle College sponsors four National Merit Scholarships annually. To be eligible for one of these scholarships, a student must take the regular Na-
tional Merit Scholarship Test and indicate his intention of attending La Salle College. These scholarships are administered by the National Merit Scholarship Corporation; it uses the regular procedures of its national competition and assigns the amount of the award based on need with a maximum of $1,500.00 each year for four years.

ARMY ROTC SCHOLARSHIPS

The Department of the Army sponsors one- two- three- and four-year scholarships to incoming freshmen and to upperclassmen in the ROTC program. Each scholarship provides free tuition, textbooks and laboratory fees, and carries a $50.00 monthly stipend.

Application for four-year scholarships must be submitted by high school seniors before January 15. Requests for applications should be addressed to Commanding General, First United States Army, ATTN: AHAAG-CE, Fort Meade, Maryland 20755. It is advisable to write for and obtain an application as early as October of the senior year.

Recipients of one- two- and three-year ROTC scholarships are chosen on a competitive basis from among students in the La Salle ROTC program who must apply directly to the Professor of Military Science at La Salle.

LAW ENFORCEMENT EDUCATION PROGRAM

This federal assistance program is designed to help improve the nation's criminal justice system—police, courts, and corrections—by enhancing the quality of criminal justice personnel through opportunities for higher education.

Loans as well as grants are available to students at La Salle College enrolled in a program of study directly related to law enforcement.

For further information and applications, contact the Director of Financial Aid, La Salle College.

SCHOLARSHIPS FROM OTHER SOURCES

Some scholarships and grants are made available annually by agencies in the Philadelphia and neighboring communities to students entering the College or to upperclassmen already in attendance.
Information about off-campus grants frequently held by La Salle students which involve competition or appointment can be obtained from the following:

2. New Jersey State Scholarship, Department of Education, Box 1293, Trenton, New Jersey 08625.
8. J. Wood Platt Caddie Scholarship, c/o Cecil J. Barnett, Esq., 29 Bala Avenue, Bala-Cynwyd, Pennsylvania 19004.

LOANS AND EMPLOYMENT OPPORTUNITIES

La Salle College participates in the loan program as established by the National Defense Education Act. Students who demonstrate financial need are eligible for consideration for long term loans under the provisions of the act. All loans are offered to meet educational expenses only and are granted on the same basis as all other financial aid.

In addition, the Guaranteed Loan Program, which is similar to the National Defense Student Loan Program, was authorized by the Higher Education Act of 1965. Under this program, the student borrows directly from a bank or other financial institution, instead of through the College. Students desiring further information on this program should direct their inquiry to the Director of Financial Aid.

La Salle College also participates in the Federal College Work-Study Program. A number of on-campus jobs are available on a part time basis. Applications may be obtained from the Financial Aid Office. Care is taken to ensure that this activity does not interfere with the student's academic and extracurricular life.

EDUCATIONAL OPPORTUNITY GRANTS

The Educational Opportunity Grant program was established by the Higher Education Act of 1965. Its purpose is to provide grants to students of exceptional financial need who, for the lack of financial means of their own or of
their families, would be unable to enter or remain in college without such assistance.

Applications are available from the Office of Financial Aid, La Salle College.

PROCEDURES FOR APPLYING FOR FINANCIAL ASSISTANCE

A candidate who desires financial assistance must submit the Parents' Confidential Statement to the College Scholarship Service or the Family Financial Statement to the American College Testing Program.

Either statement should be filed no later than January 15. Applications received after that date will be considered only if there are funds available.

Financial aid awards will be announced at the time of the offer of admission or as soon thereafter as possible.

Most types of financial aid require annual re-application. All applications for renewal must be filed with the Financial Aid Office prior to April 15 of each succeeding year.

La Salle College’s financial aid program is organized to help the able student who needs financial assistance. As long as the student continues to demonstrate academic progress as well as financial need, the College will make every effort to assist him.
Academic Programs and Procedures

REGISTRATION

During an announced pre-registration period in the spring term, a student meets with his chairman or adviser to plan his 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 his 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 a student cannot register during this period because of circumstances beyond his control, he 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 official roster of courses.

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

A student may be permitted to change from one program to another, or from one area of instruction to another, only when his previous record indicates that he may profit by such a change. In any change of this type the student must have the written permission of his chairman and the dean of his school. This change may entail taking approved summer courses or an additional semester in college. In no case may a student who transfers receive promotion or a degree sooner than he would have received it had he 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 hours, although normal progress toward a degree requires an average of fifteen hours a week. A student's program may require more hours per week in some areas of instruction.

Explained in simplest form, a semester credit hour is equal to one lecture hour or two laboratory hours a week. If a course meets for three lectures
weekly for a semester, it is said to be a three credit course. Fifteen weeks make one semester.

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.

INTERDISCIPLINARY PROGRAMS

Each year a cross-section of incoming freshmen is chosen from applicants for the experimental freshman interdisciplinary programs. Problem-centered and community-oriented, these programs stress student direction and participation. Examples of topics studied are: "Man and His Environment," "Repression and Expression," and "Work and the Quality of Life."

In the freshman year the student takes from six to twelve hours (two to four courses) in interdisciplinary work. These courses satisfy certain General Education and Distribution requirements. Grading for the courses is on a pass/fail basis. Ordinarily, science majors (other than those in psychology and mathematics) and students enrolled in the honors program are not eligible.

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. If he proves himself able and interested, he continues with honors courses in such areas as theology, 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 his last two years, the honors student may, with the approval of his chairman, substitute an independent study course in each semester for any regularly scheduled course except theology or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. During the course of the regular academic year, visiting lecturers and authorities in various fields are invited to the Honors Center for small and informal discussions with interested honors students. Further information on the Program is available from the Director of the Honors Program.

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.
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 human, academic, and material resources of the College in the larger urban community in which it is located. Such involvement in the community's growth and development enables the College to draw upon the practical experience with urban problems possessed by many in the local community, thereby broadening the base of the education offered its students. The relationship further aids the College in developing an urban studies curriculum relevant to the community perspective and initiative. The Center is located on the corner of Wister and Clarkson streets.

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM

The CAOP Program provides an opportunity for a college education to selected disadvantaged students who are residents of Northwest Philadelphia. Students are chosen for this five-year program on the basis of geographic, economic, academic, and motivational criteria. Interested applicants should follow the normal procedure in applying for admission, indicating their interest in the CAOP Program on their application.

LA SALLE IN EUROPE

Students who would like to broaden their educational background by studying in Europe may take advantage of the La Salle in Europe program. This program offers the opportunity of completing the junior year at the University of Fribourg in Switzerland while receiving full credit at La Salle for course work there. The cost of this program is approximately equal to the regular combined tuition and residence expense at La Salle. Detailed information is available from the Director, La Salle in Europe.

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.
RESERVE OFFICERS’ TRAINING CORPS PROGRAM

Freshmen may elect to participate in the Reserve Officers’ Training Corps at La Salle by so specifying on their Course Selection Form. No service obligation is incurred during the first two years.

Students who successfully complete the basic course for freshmen and sophomores may be chosen for the advanced course. Advanced course students and ROTC scholarship recipients also earn a monthly stipend of $100.00. (See page 22 for additional information on the ROTC Scholarship Program.) Cadets earn approximately $265.00 per month while attending the Advanced Summer Camp.

Students transferring to La Salle as juniors, 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 Professor of Military Science during the spring term of their sophomore year. They begin the program by attending a six-week Basic Summer Camp the summer before their junior year. During their last two years, they attend ROTC classes and take part in the Advanced Summer Camp.

Additional information is available from the Professor of Military Science, La Salle College, Philadelphia, Pa. 19141.

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 at the scheduled time may take a delayed examination.

GRADES

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

A Superior
B Very Good
C Average
D Passable
F Failure
I Incomplete
W Withdrawal
S Satisfactory
U Unsatisfactory
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 the period of the 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 two 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. A student may audit a course with the written permission of the instructor and the dean of his school. He must register for the course and pay the regular fee.

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.

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 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 STANDING

First year students are required to earn a minimum average of 1.50 to be in good academic standing; second year students, 1.75; third year students, 1.90. Averages are computed at the completion of each semester.

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 College and must be free of all academic censure. Freshmen are not eligible for inclusion on this list.

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 College's honors program.

ACADEMIC CENSURE

Academic censure may assume any one of three forms, depending on the student's academic standing. An evaluation of student records is made at the end of each semester.

(a) Probation. A student is placed on probation when he has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of his freshman year, (b) less than 1.75 after the first or second term of his sophomore year, (c) less than 1.90 after the first or second term of his junior 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 College 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 College.

(c) Dismissal. This is involuntary separation of the student from the College 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 College.

A student is liable to suspension or dismissal: (1) when he has attained a cumulative scholarship index of (a) less than 1.00 during his freshman year, (b) less than 1.50 during his sophomore year, (c) less than 1.75 during his junior year; (2) when he withdraws without notice to the Dean's Office.

CREDIT FOR OFF-CAMPUS COURSES

Course work taken at other institutions by regularly enrolled students at La Salle College 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 grade obtained at another institution does not affect the student's index at La Salle College.
REQUIREMENTS FOR A DEGREE

The candidate for a degree must have completed course work equivalent to a minimum of 120 semester hours. Certain curricula may require a number of hours exceeding this minimum.

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

He must 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.

He must have fulfilled the general education and distribution requirements.

He must have completed eight semesters as a full time student, including the two semesters of his senior year.

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 College 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 College 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 $2.00 is charged for each subsequent request. The College requires at least one week’s notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the College have been satisfactorily settled.
School of Arts and 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, economics, English, foreign languages, history, music, philosophy, political science, sociology, and theology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, earth science, mathematics, physics, or psychology.

The School also offers programs designed as preparation for law, medicine, dentistry, teaching, social work, and work in criminal justice.

Preparation for Medicine

Most students preparing for medical school major in either biology or chemistry. However, a student may major in any program whose free-electives allow completion of the following basic courses in science and mathematics:

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

Member institutions of the Association of American Medical Colleges specify these courses as minimum preparation for admission. Most, however, recommend additional courses. The premedical student is therefore advised to become familiar with the exact requirements of the school(s) to which applications will be made.

Medical schools review the applicant’s full undergraduate record. Evidence of broad interest, rounded development, and leadership can lend strong additional support to applications.

Because of intensified competition for admission, many medical schools are suggesting that applicants with grade point averages below 3.0 have little chance of acceptance. Students are encouraged to consult with their Health Professions Adviser concerning admission criteria.

Preparation for Dentistry

The basic requirements for admission to most dental schools are the same as those for admission to medical schools. The special courses, however, vary with each school. It is recommended, therefore, that the prospective dental student acquaint himself with the requirements of the school which he plans to enter.
Preparation for Teaching

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in the secondary schools of Pennsylvania and provides a foundation for those desiring to go on to further studies in the field. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, English, French, German, Latin, mathematics, physics-mathematics, Spanish, and comprehensive social studies. Students who satisfactorily complete the College's requirements in these areas and are recommended by the Teacher Certification 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 eight 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 teaching positions.

For additional information on the teacher preparation program, see page 47.

TEACHER CERTIFICATION PROGRAMS AND ADVISERS:

(Teacher certification is obtainable only in these areas.)

English—Brother Anthony Wallace
Biology, Chemistry, Mathematics, Physics-Mathematics—Brother Richard Hawley
Comprehensive Social Studies—Mr. William Binkowski
French, German, Spanish, Latin—Dr. Leonard Brownstein

(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 admission. La Salle College, 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.

CURRICULUM

Responding to the Carnegie Commission on Higher Education's recommendation that the first year in college “be made more challenging and useful,” La Salle has made a number of changes not only in the freshman
courses but also in the general education courses required of all students. These changes attempt to preserve the elements of a common intellectual experience appropriate to a liberal arts college while at the same time providing students with more opportunities for choice.

The curriculum for Arts and Sciences students is structured in 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, theology, 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 College 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)

English Composition .......... 1 semester (May be waived if writing competence is established.)
Literature .................... 2 semesters (English or foreign language in translation.)
Philosophy ................... 2 semesters
Theology ....................... 2 semesters

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>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td>Sociology</td>
<td>Psychology</td>
<td>Earth Science</td>
</tr>
<tr>
<td></td>
<td>Theology</td>
<td></td>
<td></td>
<td>Physics</td>
</tr>
</tbody>
</table>

MAJOR REQUIREMENTS

Requirements for majors in each department are listed along with that department's course descriptions, beginning on page 39 of this catalog.

FREE ELECTIVES

You may use your free electives in whatever way you choose, grouping them to build a strong minor or using them to diversify your background or broaden your interests.
### MODEL ROSTER FOR MAJORS IN ARTS AND SOCIAL SCIENCES

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
</tbody>
</table>

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dist. Req.</td>
<td>Major Course</td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

#### SOPHOMORE YEAR

| Major Course   | Major Course   |
| Elective       | Elective       |

#### SENIOR YEAR

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

### MODEL ROSTER FOR SCIENCE MAJORS

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Comp.</th>
<th>Dist. Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Mathematics</td>
</tr>
</tbody>
</table>

#### JUNIOR YEAR

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

#### SOPHOMORE YEAR

| Major Course   | Major Course   |
| Elective       | Elective       |

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Major Course</th>
<th>Major Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</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 keeping track of your academic progress toward a degree. 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>Semester Taken</th>
<th>Grade</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. English Composition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Theology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Theology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Philosophy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Philosophy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DISTRIBUTION REQUIREMENTS
(8 courses—2 each from 4 of the 5 areas on p. 38)

Area 1: (Eng., Hist.)

Area 2: (Lang., Math.)

Area 3: (Fine Arts, Phil., Theo.)

Area 4: (Econ., Pol. Sci., Soc., Psy.)

Area 5: (Bio., Chem., Earth Sci., Phys.)

MAJOR REQUIREMENTS (Fill in after consulting Course Descriptions for your particular major program.)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
<tr>
<td>6.</td>
</tr>
<tr>
<td>7.</td>
</tr>
<tr>
<td>8.</td>
</tr>
<tr>
<td>9.</td>
</tr>
<tr>
<td>10.</td>
</tr>
</tbody>
</table>

ELECTIVES (10 courses)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
<tr>
<td>6.</td>
</tr>
<tr>
<td>7.</td>
</tr>
<tr>
<td>8.</td>
</tr>
<tr>
<td>9.</td>
</tr>
<tr>
<td>10.</td>
</tr>
</tbody>
</table>
Course Descriptions

ART HISTORY
(See Fine Arts, page 55)

BIOLOGY
JOHN S. PENNY, Ph.D., Chairman
Professors: Holroyd, Penny
Associate Professors: Bogacz, Lowery
Assistant Professors: Belzer, Hawley, Ksiazek, Muldoon

Required for Major in Biology: 17 courses

- Biology 201 and 6 additional biology courses totaling 25 hours
- Chemistry 111-112, 311-312, 433-434
- Mathematics 103-106 [Mathematics 106 may be substituted if Mathematics 106 is taken as first course.]
- Physics 211-212

Biology 110-111.
ANATOMY AND PHYSIOLOGY
3-6 credits
A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. May be taken by non-science majors to fulfill their science requirement.

Biology 117-118.
GENERAL BIOLOGY
3-6 credits
A terminal course for those who can take only one year of biology. Structure and metabolism of seed plants and vertebrate animals; brief survey of the plant and animal kingdoms. Consideration of evolution, ecology, and genetics for both plants and animals. Two hours lecture, two hours laboratory; two terms.

Biology 201.*
THE LIVING ORGANISM
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; may be waived for advanced standing. Prerequisite: General Chemistry. Three hours lecture, two hours laboratory.

Biology 202.
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.

* The sequence of Biology 201, 202, 303, and 302 is strongly recommended by the department. All graduating biology majors must have a minimum of 25 credit hours in biology.
Biology 207.
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. Offered both semesters.

Biology 302.
THE PLANT KINGDOM 4 credits
Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory.

Biology 303.
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 405.
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.
EMBRYOLOGY 3 credits
Fundamental processes underlying vertebrate development and differentiation; the frog, chick, and pig form the basis of instruction. Two hours lecture, two hours laboratory.

Biology 407.
MICROBIOLOGY 3 credits
A lecture-laboratory course concerned with the role of microorganisms in nature and especially in human affairs. One hour lecture, four hours of laboratory; one term.

Biology 408.
THE CELL 3 credits
Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Prerequisite: Organic Chemistry. One hour lecture, four hours laboratory.

Biology 409.
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 410.
FIELD ECOLOGY 3 credits
Project laboratory at the La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Recommended prerequisite: Biology 409. Six hours laboratory and field work.
Biology 411.  
MICROTECHNIQUE  
2 credits  
Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, two hours laboratory.

Biology 412.  
GENETICS  
2 credits  
Mendel’s laws of heredity as observed in plants and animals; the scope and method of modern genetics.

Biology 413.  
GENETICS LABORATORY  
1 credit  
Prerequisite: Biology 412, which may be taken concurrently. Two hours laboratory.

Biology 414.  
TAXONOMY OF THE ANGIOSPERMS  
3 credits  
Angiosperm systematics; field collecting and identifications; herbarium and greenhouse practice. Phylogeny, characteristics and importance of the leading Families of flowering plants. Two hours lecture, two hours laboratory.

Biology 418.  
GENERAL PHYSIOLOGY  
3 credits  

Biology 419.  
NEUROMUSCULAR PHYSIOLOGY  
3 credits  
A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. One hour lecture, four hours laboratory.

Biology 422-423.  
BIOLOGICAL RESEARCH  
2-4 credits  
Laboratory or theoretical research under staff supervision; permission of chairman required. Hours to be arranged.

Biology 425.  
RADIOBIOLOGY  
3 credits  
Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. One hour lecture, four hours laboratory.

Biology 427.  
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 428.  
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, one hour laboratory.
CHEMISTRY
GREGORY CLAUDE DEMITRAS, F.S.C., Ph.D., Chairman
Professors: Barth, Paul, Wilson
Associate Professors: Demitras, Tekel
Lecturers: Boyko, Polek

Required for Major in Chemistry: 15 courses

- Mathematics 106, 216, 217. (It is strongly suggested that Chemistry majors begin with Mathematics 106 as freshmen.)
- Physics 211, 212. (Physics 311 is excellent preparation for Chemistry 405 and 406, 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, a reading knowledge of a foreign language, some advanced work in chemistry, physics or mathematics, and some research experience. This additional work may qualify a chemistry major for accreditation by the American Chemical Society.

Chemistry 101-102.
GENERAL CHEMISTRY 4-8 credits
A terminal course. Designed specifically for students who wish to obtain a general knowledge of chemistry in one survey course. Descriptive chemistry and the quantitative aspects of chemical principles are discussed. Three hours lecture, three hours laboratory; two terms.

Chemistry 111-112.
GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS 4-8 credits
Fundamental concepts, laws, and theories of chemistry; emphasis on the principles of ionization, chemical equilibria, solubility product, hydrolysis and complex ions. Laboratory experiments stress the quantitative aspects; experiments of the latter half of the second semester are devoted entirely to qualitative analysis. Three hours lecture, three hours laboratory; two terms.

Chemistry 302.
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. Two hours lecture, six hours laboratory.

Chemistry 311-312.
ORGANIC CHEMISTRY 4-8 credits
Emphasis is placed on the modern approach to structure and reaction mechanisms; intended for chemistry majors. Prerequisite: Chemistry 111-112. Three hours lecture, three hours laboratory; two terms.

Chemistry 401.
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 complex ions. Prerequisites: Chemistry 311-312, 405-406.
Chemistry 402.
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.

Chemistry 405-406.
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, electromotive force, electrical conductivity, and chemical thermodynamics. Prerequisites: Chemistry 311-312; Mathematics 216-217. Three hours lecture, three hours laboratory; two terms.

Chemistry 407.
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 311-312. Eight hours of laboratory per week and individual conferences.

Chemistry 408.
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. Two hours lecture, six hours laboratory.

Chemistry 410 and/or 411.
CHEMICAL RESEARCH 4-8 credits
Individual laboratory or theoretical work under supervision of a staff member. Restricted to chemistry majors. Hours to be arranged.

Chemistry 430.
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. Prerequisite: Chemistry 311-312. Three hours of lecture.

Chemistry 431.
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. Prerequisite: Chemistry 311-312. Three hours lecture, three hours laboratory.

Chemistry 433-434.
ANALYTICAL PHYSICAL AND BIOLOGICAL CHEMISTRY 4-8 credits
The techniques of analytical chemistry, including instrumental analysis, and the theories of physical chemistry applied to biochemical reactions. Intended for biology majors. Prerequisites: Chemistry 312, Mathematics 106, Physics 212. Three hours lecture, three hours laboratory.
Earth Science

RODDY V. AMENTA, Ph.D., Chairman
Associate Professor: Sullivan
Assistant Professors: Amenta, Stephens

Required for Major in Earth Science: 15 courses

- Earth Science 101, 102, 201, 206, 302, 303, 304, 401, 402, 403, 404, 405, 406.
- Chemistry 101-102 or Chemistry 111-112.
- Suggested Courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics; Russian or German.

Earth Science 101.
P HYSICAL GEOLOGY 3 credits
Principles of physical geology, including classification of rocks, weathering, earthquakes, volcanoes, glaciation, marine erosion, and mountain building. Two hours lecture, two hours laboratory and field trips.

Earth Science 102.
HISTORICAL GEOLOGY 3 credits
The geological history of the world, with special reference to eastern North America. The evolution of life through the ages. Two hours lecture, two hours laboratory and field trips.

Earth Science 103-104.
DESCRIPTIVE ASTRONOMY 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.

Earth Science 201.
P HYSICAL GEOGRAPHY 3 credits
A study of the genesis, formation, and characteristics of land forms. Laboratory exercises include an interpretation of land forms for topographic maps and aerial photographs. Two hours lecture, two hours laboratory.

M ETEOROLOGY 3 credits
A treatment of the composition and properties of the atmosphere, observation of essential weather elements as well as the effects of weather and climate upon man and his activities. Two hours lecture, two hours laboratory. Prerequisites: Mathematics 103, 106.

Earth Science 206.
O PTICAL MINERALOGY 4 credits
Elements of crystallography; the determination of minerals by means of the polarizing microscope. Two hours lecture, four hours laboratory.

Earth Science 302.
P ALEONTOLOGY 3 credits
A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology and geomorphology. Prerequisite: Biology 117-118 or Biology 201. Two hours lecture, two hours laboratory.
Earth Science 303.
SEDIMENTATION AND SEDIMENTARY PETROGRAPHY 3 credits
Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Two hours lecture, two hours laboratory.

Earth Science 304.
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.

Earth Science 401.
STRUCTURAL GEOLOGY I 3 credits
A classical approach to structural geology involving the study of folds, faults, lineations, geologic maps, experimental deformation. Field trips. Three hours lecture, one hour laboratory.

Earth Science 402.
MINERALOGY AND PETROGRAPHY 3 credits
Descriptive and determinative mineralogy; identification and study of the more common rock types. Two hours lecture, two hours laboratory.

Earth Science 403.
IGNEOUS AND METAMORPHIC PETROLOGY 4 credits
The classification, mineralogy, textures, and genesis of the common igneous and metamorphic rocks. Prerequisite: Earth Science 206, 402. Field trips. Two hours lecture, four hours laboratory.

Earth Science 404.
GEOCHEMISTRY 3 or 4 credits
An introduction to geological thermodynamics and phase equilibria, a survey of general earth chemistry, an introduction to materials science as applied to geology. Three hours lecture, optional three hours laboratory.

Earth Science 405.
SEMINAR IN ADVANCED PHYSICAL GEOLOGY 3 credits
Selected topics and problems from physical geology considered in depth; topics vary from year to year. Prerequisite: permission of chairman. Two hours lecture, two hours laboratory.

Earth Science 406.
STRUCTURAL GEOLOGY II 3 credits
Principles of structural analysis as applied to structures in metamorphic rocks; an introduction to regional tectonics. Three hours lecture, one hour laboratory.

Earth Science 407.
RESEARCH 1-3 credits
Supervised research in geology. Can be elected in fall, spring, or summer.
Required for Major in Economics: 14 courses
- 2 courses in the Social Sciences (Psychology, Political Sciences, or Sociology).

Economics 111.
INTRODUCTORY ECONOMICS I 3 credits
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 320, 415, and 416.

Economics 112.
INTRODUCTORY ECONOMICS II 3 credits
A continuation of Economics 111. 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.

Economics 203.
MONETARY THEORY 3 credits
An analysis of the role of money and the monetary system in determining income, employment, and the price level. Prerequisites: Economics 111, 112.

Economics 313.
ECONOMICS AND BUSINESS STATISTICS I 3 credits
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. Prerequisite: Economics 111, 112.

Economics 314.
ECONOMICS AND BUSINESS STATISTICS II 3 credits
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 313.

Economics 317.
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. Prerequisite: Economics 111, 112.
Economics/Sociology 320.
INTRODUCTION TO URBAN STUDIES 3 credits
An introduction to the varied disciplinary approaches used by social scientists in their investigation of the urban scene. Study and discussions of the literature on urban affairs. Independent research projects on surrounding neighborhood area. Co-taught by sociology and economics departments. Identical with Sociology 320. Prerequisite: 6 semester hours of Social Science.

Economics/Sociology 321.
SEMINAR IN URBAN STUDIES 3 credits
Intensive analysis of the city as a system of interrelated variables and institutional subsystems. Stresses current policies and practices in the social and economic options available to various urban interest groups. Independent research projects on the Philadelphia region. Co-taught by economics and sociology departments. Prerequisite: 6 semester hours of social science. Identical with Sociology 321.

Economics 322.
AMERICAN ECONOMIC HISTORY 3 credits
History of the growth and development of the economic institutions of the United States from the Age of Discovery to the New Deal and their influences on political and social organizations. Prerequisites: Economics 111, 112.

Economics 325.
INTRODUCTION TO MATHEMATICAL ECONOMICS 4 credits
Designed to acquaint the student with certain topics in algebra, analytic geometry, and calculus which are most useful in their application to micro- and macroeconomic analysis. Prerequisites: Economics 111, 112.

Economics 401.
INTERMEDIATE ECONOMIC THEORY I: PRICE THEORY 4 credits

Economics 402.
INTERMEDIATE ECONOMIC 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 111, 112.

Economics 403.
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 111, 112.

Economics 404.
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 111, 112.
Economics 415.
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 416.
CONTEMPORARY ECONOMIC SYSTEMS 3 credits
A continuation of Economics 415 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 420-421.
SEMINAR 3-6 credits
A study of methodology in economics and of the techniques of preparing research reports. Second semester includes readings, discussions, and presentation of individual research reports. Recommended for majors who plan to attend graduate school.

EDUCATION

GARY K. CLABAUGH, Ed.D., Chairman
Associate Professor: Binkowski
Assistant Professors: Bangs, Clabaugh, Fromuth, Hawley, Roehm, Wallace

Required for Major in Education:
- Education 301, 302, 303, and 410 (Includes 401, 402, 404.)
- Psychology 101.
- Courses designated for associated majors (See advisers listed on Page 32.)

During his freshman year, the student follows the program prescribed for the subject which he plans to teach. Application for admission into the teacher preparation program is normally made during the second semester of freshman year. Admission requires approval of the Teacher Preparation Admissions Committee. (Forms are available in the education department office.) The candidate must have and maintain an index of at least 2.00 for admission and retention in the program. All candidates must take the Minnesota Teacher Attitude Inventory upon entering the program and again upon its completion. The National Teacher Examinations are also required upon completion of the program.

In his last three years, the student follows the program designated by his area adviser and the chairman of the education department.

Before being accepted for the Professional Semester (Education 410), the student must have an index of 2.50 or better in his associated major (for example, Education-English) and receive approval of both the chairman of the associated major and of the education department chairman.

Students not preparing for teaching may elect courses in education with the approval of the education department.

Education 301.
THE SCHOOL: EDUCATION IN PHILOSOPHICAL AND CULTURAL PERSPECTIVE 3 credits
Analysis of relationship between organizational structure and educational policies of American schooling and the socio-economic system of modern society. Both semesters.
Education 302.
THE CHILD: EDUCATIONAL PSYCHOLOGY 3 credits
Study of psychological principles as they apply to the pupil and the learning process. Requires participation in reading tutorials or some similar field experience in education. Both semesters. Prerequisite: Psychology 101.

Education 303.
THE TEACHER: ANALYSIS OF TEACHING 3 credits
The study of teaching skills. Includes simulations, micro-teaching, interaction analysis. Prerequisites: field experience in education, Education 301, 302.

Education 410.
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 (Education 401, 3 credits) in various disciplines, direct application of Educational Media (Education 404, 3 credits), methods and materials to teaching and ten to twelve weeks full-time assignment to classroom observation and teaching in selected secondary schools (Education 402, 9 credits).

The Professional Semester requires the student to participate on a five day a week, full day schedule. Prerequisites: field experience in education, Education 301, 302, 303 and approval of the chairman of the associated major and the chairman of the Education Department.

Education 420.
THE EDUCATION OF URBAN POPULATIONS 3 credits
A multi-disciplinary examination of the social, economic, political and demographic aspects of urban populations as they affect formal education. Team taught. Identical with Political Science 420 and Sociology 421.

ENGLISH

CHARLES V. KELLY, M.A., Chairman
Professors: Burke, Kelly, Koch, Rodden
Associate Professors: Devlin, Doran, Ellis, Fallon, Hannum, Keenan, Kleis, Mollenhauer, Sheekey
Assistant Professors: Butler, Carter, Cunningham, Eriksson, Foote, Knodt, Lautz, MacLeod, McLaughlin, Rao, Seydow, Thornton
Instructors: Hammill, McClatchy, Musil, Ruggiero, Willens
Lecturers: Lyons, McClelland

Required for Major In English: 15 courses
The English program is flexible and designed to be adaptable to the needs and career objectives of students. Before rostering his courses, therefore, the English major should consult with a departmental adviser to make sure that his program is likely both to achieve his objectives and meet departmental requirements. Generally students with the indicated career objectives should roster the following courses:

- Concentration in English as Preparation for Graduate Study:
  English 101, 340, or 401; 209 and 210; 313, 314, and 315; 328 or 329; 365, 366, or 367; 405 or 406; a Contemporary course; 306, 308, 318, or 355; 2 English electives, concentrating on either literary periods or individual figures; 413 and 414.
• Concentration in English as Liberal Arts Background:
  English 101, 340, or 401; 209 and 210; 313, 314, and 315; 328 or 329; 365, 366,
  or 367; 405 or 406; a Contemporary course; 5 English electives.

• Concentration in English-Education: (10 courses)
  English 101, 340, 344, or 401; 209 and 210; two of the following: 313, 314, 315
  (322 may be substituted), or 416; 365, 366, or 367; 306, 308, 318, or 355; 328 or 329; 2 English electives.

• Concentration in Speech and Drama:
  English 105 and 106; 212, 214; 216; 313; 416; two of the following: 302, 303,
  or 305; 3 electives in Speech and Drama; 1 elective in Art; 2 electives in
  English.

• Concentration in Writing:
  English 313 or 314; 315; 322; 328 or 329; 349; 401; 405 or 406; Art 205, Music
  205, Philosophy 401; 3 courses from the following: 304, 340, 341, 342, 344; 2
  English electives.
GENERAL EDUCATION

Fall

English 201.
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 will encourage the student to read with increased taste, perception, and pleasure. Emphasis on authors who have experimented significantly with form, including Sophocles, Shakespeare, Keats, Browning, Joyce, and T. S. Eliot. Short critical papers.

English 202.
FROM HERO TO ANTI-HERO 3 credits
An exploration of the changing concepts of heroism in western society from the classic ideal to the contemporary mistrust of man’s capacity for heroism. Fiction, drama, and poetry to illustrate the heroic stance in confrontation with the supernatural realm, the collective social order, and the private will. Collateral readings and short critical papers.

English 203.
MODES OF INITIATION 3 credits
Fiction, poetry, and drama in which the young protagonist confronts a significant change in knowledge about the world or himself, leading to a more mature vision of life. Readings drawn from such authors as Joyce, Twain, Salinger, Hemingway, Dickens, Shakespeare, Shaw, among others. Short critical papers.

English 101.
COMPOSITION 3 credits
Training in exposition and argumentation. Weekly themes.

English 105-106.
HISTORY OF THE THEATRE AND THE DEVELOPMENT OF THE DRAMATIC STRUCTURE 3-6 credits
A study of the development of the composite arts of theatre, and an analysis of the dramatic structure in representative plays. Fall term: origins to 1700. Spring term: 1700 to present. Required of students concentrating in speech and drama.

Spring

English 204.
MAJOR AUTHORS 3 credits
An examination in depth of the timeless appeal of five or six major figures who are pre-eminent in their mastery of the English language and of certain works which continue to attract and excite readers through the centuries. Figures selected from the following: Chaucer, Shakespeare, Donne, Milton, Swift, Keats, Tennyson, Whitman, Melville, Conrad, Eliot, Frost, and Miller. Critical papers.

English 207.
THE IMAGE OF MAN 3 credits
The attempt of the individual to cope with changing views of man’s position in the universe. The crisis of the individual who has lost faith in traditional values, feels alienated, and is attempting to find alternative values. Poetry, drama, and fiction. Short critical papers.

English 208.
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, racism, and the industrial and cybernetic revolutions. The theme and its development will be examined in the works of representative American voices: Hawthorne, Melville, Twain, Fitzgerald, Ellison, Miller, Albee, Williams, etc. Critical papers.
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.

English 212.
FUNDAMENTALS OF THEATRE PRACTICE 3 credits
A lecture-laboratory course in stagecraft, lighting, and other skills associated with play production. Required of students concentrating in speech and drama.

English 214.
ORAL INTERPRETATION OF PROSE AND POETRY 3 credits
Training of the speaking voice as it is involved in building a performance. Special emphasis on “reading out the meaning” of verse and prose selections. Required of students concentrating in speech and drama.

English 216.
ACTING I: VOICE AND BODY 3 credits
A laboratory course in the use of the player’s instruments, vocal and physical; practical training in vocal production, singing; in body movement, dance. Required of students concentrating in speech and drama.

English 219-220.
GREAT BOOKS IN ENGLISH 3-6 credits
Honors course. Reading of major works in their entirety in chronological sequence, linked by discussion of major periods and movements. Short critical papers.

English 302.
ELEMENTARY ACTING 3 credits
An introduction to the various methods by which an actor prepares. Prerequisites: English 214, 216 or permission of Mr. Rodden. Fall term.

English 303.
ELEMENTARY DIRECTION 3 credits
Consideration of the evolution of the director’s function in the theatre; study of the means by which a director prepares and executes his function. Direction of one-act plays, both traditional and experimental. Fall term.

English 304.
ELEMENTARY PLAYWRITING 3 credits
Investigation of the special role of the theatrical narrator with attention to problems of exposition, dialogue, and narration in the theatre. Completion of a one-act play required. Spring term.

English 305.
ELEMENTARY DESIGN 3 credits
Principles and skills in both scenic and costume design. Historical study of the role of the designer in theatre. Completion of a design project. Spring term.

English 306.
INTRODUCTION TO DESCRIPTIVE LINGUISTICS 3 credits
Nature of language; modern methods of linguistic analysis. Social and cultural background of language. Fall term.
English 307.
CHAUCER 3 credits
Readings in Chaucer, especially *Troilus and Criseyde* and *The Canterbury Tales*. Spring term.

English 308.
Special Topics in Linguistics:
URBAN DIALECTS: A SOCIO- AND PSYCHOLINGUISTIC PERSPECTIVE 3 credits
An examination of selected urban dialects as they relate to social stratification and group cohesiveness. Study of special problems these dialects may present for language arts instruction. Spring term.

English 313.
READINGS IN DRAMA 3 credits
Introduction to drama as an art form. Survey of the important dramas of England from the Middle Ages to 1900. Fall term.

English 314.
THE POEM IN ENGLISH 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. Both terms.

English 315.
READINGS IN FICTION 3 credits
Historical development and structural analysis of the narrative form. Both terms.

English 318.
HISTORY OF THE ENGLISH LANGUAGE 3 credits
Origins and the development of modern English from Old and Middle English; dialects and dialect geography. Fall term.

English 319.
ORAL COMMUNICATION 3 credits
Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience. Fall term.

English 321.
ADVANCED ORAL COMMUNICATION 3 credits

English 322.
CONTEMPORARY BRITISH AND AMERICAN NOVEL 3 credits

English 328.
SHAKESPEARE 3 credits
Reading of a wide selection of plays and sonnets with a concern for Shakespeare's artistic development. Fall term.

English 329.
SHAKESPEARE 3 credits
Intensive study of selected poems and plays, including tragedies, comedies, and chronicles. Spring term.
English 340-341-342.
CREATIVE WRITING I, II, & III 3 credits per term
Workshops in the writing of fiction and verse.

English 344.
FUNDAMENTALS OF JOURNALISM 3 credits
Survey of the mass media with emphasis on newspapers, radio, and television. Topics include: communication theory, 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 349.
THE FILM AS ART 3 credits
Study of selected films and discussion of cinematographic techniques involved. Spring term.

English 355.
THE GRAMMARS OF ENGLISH 3 credits
A comparison of traditional, structural, and transformational-generative approaches to English grammar, both in theory and as these approaches are applied in selected elementary and secondary school grammar texts. Spring term.

English 360.
MIDDLE ENGLISH LITERATURE 3 credits
A survey of English literature of the 12th through 15th centuries, exclusive of Chaucer. Fall term.

English 361.
RENAISSANCE LITERATURE 3 credits

English 362.
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. Fall term.

English 363.
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. Fall term.

English 364.
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. Spring term.

English 365.
AMERICAN LITERATURE (to 1860) 3 credits
Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman. Fall term.
English 366.
AMERICAN LITERATURE (1860-1920)  3 credits
Rise of realism; naturalism; the “new poetry.” Figures include Twain, Dickinson, Howells, James, Crane, Dreiser, and Robinson. Both terms.

English 367.
AMERICAN LITERATURE (SINCE 1920)  3 credits
Survey of developments in poetry, fiction, and criticism; figures include Hemingway, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, and selected writers of the 1950’s and 1960’s. Spring term.

English 375.
MILTON  3 credits
A study of the form and content of Milton's poetry, supplemented by student research on his prose and on the ideas and values of his age. Fall term.

English 401.
ADVANCED EXPOSITION  3 credits
Practice in confronting special writing problems of business, education, and other professions. Recommended for prospective teachers. Both terms.

English 405.
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. Fall term.

English 406.
HISTORY OF LITERARY CRITICISM  3 credits
Reading and discussion of major critical texts in historical setting. Short critical papers. Spring term.

English 412.
SPECIAL LITERARY TOPICS  3 credits
Concentration on one particular aspect of literature. Subject matter will vary from term to term.

English 413-414.
SENIOR COORDINATING SEMINAR  3-6 credits
Intensive study of one author (chosen by student) with relation to his literary period and genre. Preparation and discussion in small group meetings of two long papers each semester by each student with emphasis on synthesis of the ideas presented in individual courses.

English 416.
READINGS IN MODERN DRAMA  3 credits
A study of selected plays of the modern theatre from Ibsen to Ionesco, with an emphasis on the forces which have shaped the drama of England, Ireland, and America. Spring term.

English 420.
CONTEMPORARY POETRY  3 credits
An examination of representative 20th century poetic practice in English. Fall term.
English 433.
RELIGIOUS ATTITUDES IN MODERN LITERATURE 3 credits
An examination of various cross-currents between religion and literature as found in representative modern texts. Man's search for ultimate meaning will be studied in such writers as Hesse, Kafka, Eliot, Beckett, and Ginsberg. An analysis of the various forms that religious experience takes (theological vs. literary); the relation between religious questions found in modern literature and those found in the traditional scriptures (the presence or absence of God, the moral dilemma, the freedom of man). Identical with Theology 433. Both terms.

FINE ARTS
GEORGE K. DIEHL, M.A., Chairman
Assistant Professors: Diehl, Hanes, Ridington, White
Instructor: Fox
Lecturer: Lang

Required for Major in Art History: 12 courses
- Art 329-330, 311, 314, 315, 317, 319, 320
- Any 2 studio courses
- 2 Art History electives

Required for Major in Music: 13 courses

ART

Art 205. 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.

ART HISTORY

Art 221. 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 222. 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 223. ART OF THE ASIAN SUB-CONTINENT 3 credits
Development and growth of the visual arts in the Asian sub-continent from pre-historic times to the present. Consideration of derivations and movements of art styles among the Asian countries, as well as of the artistic influences between the East and the West.
Art 224.
ART OF THE FAR EAST 3 credits
Development and growth of the visual arts in the countries of the Far East from prehistoric times to the present. Consideration of derivations and movements of art styles among the Asian countries, as well as the artistic influences between the East and the West.

Art 231.
AMERICAN ART 3 credits
Chronological survey of 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 314.
MEDIEVAL ART 3 credits
Chronological study of the eastern and western aspects of Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.

Art 315.
RENAISSANCE ART 3 credits
A study of the phenomenon of the Renaissance from its Ducento inception through 16th-century Mannerism in both Southern and Northern Europe. Certain major personalities will be singled out for concentrated study.

Art 317.
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.

Art 319.
NINETEENTH CENTURY ART 3 credits
A study of the major artistic forces in selected European countries and their reaction to the Social and Industrial Revolutions. The course will include an investigation of the effect of these developments upon artistic forms in the United States.

Art 320.
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 329-330.
HISTORY OF ART 3-6 credits
Chronological survey of the painting, sculpture, architecture, and minor arts of Western Civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1500. Spring term: 1500 to present.
Art 351. 
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 National Gallery of Art, Lessing J. Rosenwald collection. Prerequisites: permission of the instructor. Written research project.

Art 400. 
INDEPENDENT STUDY 3 credits
Intensive study in a specific area under individual guidance. Open only to Art History majors. Prerequisites: 3.00 average or better, recommendations of instructor, approval of department chairman.

STUDIO COURSES

Art 301. 
OIL PAINTING 3 credits
Introduction to basic techniques of sketching and painting. Preparation of materials and instruction in perspective. Exercises in indoor and outdoor painting. May be repeated for credit.

Art 352. 
PRINT MAKING 3 credits
Introduction to basic print processes. Relief and intaglio printing and lithography. May be repeated for credit.

MUSIC

Music 205. 
MUSIC: 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.

MUSIC HISTORY

Music 101-102. 
INTRODUCTION TO THE HISTORY OF MUSIC 3-6 credits
After a brief introduction to the fundamentals of music, the course proceeds to a comprehensive survey of the principal styles of Western music. Fall term: from classical antiquity to 1750. Spring term: from 1750 to the present.

Music 200. 
AMERICAN MUSIC 3 credits
A study of the history of music in America from the Colonial Period to the present.

Music 201. 
A SHORT HISTORY OF OPERA 3 credits
Music for the operatic stage from its inception to the contemporary period. Concentrated study of selected works representing the stylistic and historical development of opera.
Music 301.
MUSIC OF THE CLASSIC PERIOD 3 credits
A study of Western music from the middle of the 18th century to the death of Beethoven. The rise and development of the classical style with special emphasis upon the contributions of Haydn, Mozart, and Beethoven.

Music 302.
MUSIC OF THE ROMANTIC PERIOD 3 credits

Music 303.
MUSIC OF THE TWENTIETH CENTURY 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 304.
BACH AND HANDEL 3 credits
Their historical importance in the musical developments in Germany and England in the Baroque era. A study of representative vocal, instrumental, and chamber works.

Music 401.
MEDIEVAL AND EARLY RENAISSANCE MUSIC 3 credits
The evolution of sacred and secular music from the early Christian Church to about 1500. The development of polyphony from its beginning to the work of Josquin Desprez.

Music 402.
LATE RENAISSANCE AND BAROQUE MUSIC 3 credits
An examination of musical developments from about 1500 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

Music 207-208.
FUNDAMENTALS OF MUSIC THEORY 3-6 credits

Music 309-310.
HARMONY 3-6 credits

Music 403.
COUNTERPOINT 3 credits
Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels.
Music 404.
ORCHESTRATION 3 credits
A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practice of orchestration.

Music 405.
ADVANCED THEORY AND COMPOSITION 3 credits
An examination of the theoretical foundations and principles of more complex musical structures. Analysis and practice.

Music 406.
FREE COMPOSITION 3 credits
Creative projects for students prepared for work in original composition. Pre-requisite: permission of instructor.

INDEPENDENT STUDY

Music 407.
INDEPENDENT STUDY 3 credits
May be taken by students concentrating in either history or theory for the study of specialized topics from 1600 to the present. Prerequisites: permission of instructor and approval of department chairman.

APPLIED MUSIC

Music 103.
PIANO No credit

FOREIGN LANGUAGES AND LITERATURES

BERNHARDT G. BLUMENTHAL, Ph.D., Chairman
Professors: Bernian, Boudreau
Associate Professors: B. Blumenthal, Brownstein, DiMarco, Moran, Sapone, Rudnytzky
Assistant Professors: D. Blumenthal, Dixon, Fenoaltea, Joseph, McCann, Mall, Morocco, Perfecky, Suarez
Director of Language Laboratory: Ronald Fisher

CLASSICAL LANGUAGES

Required for Major in Classical Languages: 14 courses
• 10 courses in Latin
• 4 courses in Greek

GREEK

Greek 101-102.
ELEMENTARY GREEK 3-6 credits
An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.

Greek 202-204.
INTERMEDIATE GREEK 3-6 credits
Review of elementary grammar; readings of selected prose and poetry.
Greek 304.
HOMER
Selections from the Iliad or Odyssey. Study of the epic meter and style.

Greek 305.
THE NEW TESTAMENT
Selected passages; special attention to the forms peculiar to New Testament Greek. May be repeated for credit.

Greek 312.
LYRIC POETRY
The lyric poets from Archilocus to Theocritus; analysis of the meters; special emphasis on Pindar's odes.

Greek 407.
PLATO
Selections from the writings of Plato with special attention to the syntax; Platonic philosophy and contemporary life in Athens.

Greek 408.
DRAMA
Selections from the repertory of Greek comedy or tragedy; attention to the subsequent influence of this genre on world literature. May be repeated for credit.

Greek 421.
GREEK CLASSICS IN ENGLISH
A detailed study of the literary history of Greece; significant Greek classics read and discussed. Knowledge of Greek not required. Open to upperclassmen who desire a cultural course of this nature.

Greek 422.
HISTORY OF GREEK AND LATIN LANGUAGES
Identical to Latin 422.

LATIN

Latin 101-102.
ELEMENTARY LATIN
Thorough grounding in forms and vocabulary.

Latin 202-204.
INTERMEDIATE LATIN
Review of elementary grammar; readings of selected prose and poetry.

Latin 308.
PROSE COMPOSITION
A study of Latin syntax, with practice in writing Latin of graded difficulty.

Latin 309.
CICERO
The works to be read will depend on the interests of the class.
Latin 310.
LIVY AND ROMAN HISTORIOGRAPHY 3 credits
Selected passages of Livy's History of Rome; study of Roman historical theory.

Latin 312.
HORACE AND LATIN LYRIC POETRY 3 credits
Study of the Horatian Ode; comparison with other Latin lyric poets.

Latin 314.
LATIN POETRY 3 credits
Selections from one or several of the Roman poets. Readings may be chosen from works of: Vergil, Catullus, Lucretius, Tibullus, Propertius, Martial, Ovid, Horace, Juvenal, and Persius. May be repeated for credit.

Latin 413.
ROMAN COMEDY 3 credits
Selected plays of Plautus and Terence will be read.

Latin 415.
PATRISTIC LATIN 3 credits

Latin 416.
MEDIEVAL LATIN 3 credits
Selections from the various writers from the fifth to the thirteenth centuries of the Christian era. A study of changes in Latin forms and syntax and in the meaning of words; relations of medieval Latin to the vernaculars.

Latin 420.
LATIN INSCRIPTIONS 3 credits
A study of Roman private life as illustrated by a wide variety of inscriptions. A survey will be made of the field of epigraphy and of modern techniques used.

Latin 421.
LATIN CLASSICS IN ENGLISH 3 credits
A detailed study of the literary history of Rome and the influence of Latin literature on western thought. Its indebtedness to the literature of Greece will be clearly noted. Some significant Latin classics read and discussed; knowledge of Latin not required. Open to upperclassmen who desire a cultural course of this type.

Latin 422.
HISTORY OF LATIN AND GREEK LANGUAGES 3 credits
Latin and Greek traced from earliest stages to their transformation into the various daughter languages of the modern world (the Romance languages and modern Greek). Reading knowledge of Latin and Greek not required.
MODERN LANGUAGES  
FRENCH

Required for Major in French: 14 courses
• French 305-306, 8 other French courses (4 from 400 list)
• 4 courses in second language

GENERAL EDUCATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>French 200</td>
<td>3</td>
<td>MODERN FRENCH LITERATURE IN ENGLISH TRANSLATION</td>
</tr>
<tr>
<td>French 201</td>
<td>3</td>
<td>CONTEMPORARY FRENCH LITERATURE IN ENGLISH TRANSLATION</td>
</tr>
</tbody>
</table>

The rise of the modern sensibility that views art as the new religion and defines poetry as creation and revolution (Nerval, Baudelaire). Symbolist and Decadent strains in the artist's temperament up to the First World War (Rimbaud, Lautreamont, Jarry, Apollinaire). Texts in English translation. Critical Papers. Fall term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>French 202</td>
<td>3</td>
<td>REVIEW GRAMMAR AND COMPOSITION</td>
</tr>
<tr>
<td>French 204</td>
<td>3</td>
<td>INTERMEDIATE READINGS</td>
</tr>
<tr>
<td>French 305</td>
<td>3</td>
<td>ADVANCED GRAMMAR AND COMPOSITION</td>
</tr>
<tr>
<td>French 306</td>
<td>3</td>
<td>ADVANCED LANGUAGE AND STYLE</td>
</tr>
<tr>
<td>French 308</td>
<td>3</td>
<td>SURVEY OF LITERATURE I</td>
</tr>
<tr>
<td>French 309</td>
<td>3</td>
<td>SURVEY OF LITERATURE II</td>
</tr>
</tbody>
</table>

A study of the phonetics and grammar of French with graded work in reading and composition. One required hour per week in the language laboratory.

A review of French grammar with exercises in composition and selected readings.

Readings of medium difficulty selected as an introduction to the literature and civilization of France.

Training in the use of idiomatic French and in the practical application of grammatical principles; intensive exercises in written expression and in the translation of standard English prose into French.

Continuation of French 305 with mounting stress on refinement of phrase and oral delivery.

Readings and discussions of selected literary works from the beginnings to 1800.

Readings and discussions of selected literary works from 1800 to the present.
French 311.
CIVILIZATION I (ADVANCED CONVERSATION) 3 credits
A survey of the political, social, intellectual, scientific and artistic development of France from earliest times to 1900. Lectures and readings serve as a basis for oral practice.

French 312.
CIVILIZATION II (ADVANCED CONVERSATION) 3 credits
A survey of the geography, history, institutions and artistic and cultural life of modern France. Lectures and readings serve as a basis for oral practice.

French 402.
MODERN NOVEL 3 credits
A study of the novels of Proust, Gide, Bernanos, Giono, Malraux, Sartre and Camus.

French 405.
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 413.
SIXTEENTH-CENTURY LITERATURE 3 credits
Readings and reports on works of representative authors of the 16th and also the 17th centuries.

French 414.
EIGHTEENTH-CENTURY LITERATURE 3 credits
Readings and reports on works of representative authors of the 18th century.

French 420.
MODERN THEATRE 3 credits

French 421.
MODERN POETRY 3 credits
A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.

French 425.
NINETEENTH-CENTURY NOVEL 3 credits
A study of the novels of Constant, Stendhal, Balzac, Flaubert, Fromentin, Zola and Huysmans.

French 430.
CLASSICAL THEATRE 3 credits
A study of the plays of Corneille, Moliere and Racine.

French 440.
HONORS SEMINAR 3 credits
Tutorial conferences, papers on selected topics, and experience in classroom teaching.
GERMAN

Required for Major in German: 14 courses
- German 320, 402, 405, 420 or 421
- 6 electives in German
- 4 courses in second language

GENERAL EDUCATION

German 200. 3 credits
MODERN GERMAN LITERATURE IN ENGLISH TRANSLATION
The loss of spiritual orientation in German and Austrian literature of the early modern period. Study of the artist's attempt to restore values to life in a declining bourgeois society between two world wars. Readings from Rilke, Hesse, Mann, Musil, and Kafka. Texts in English translation. Critical Papers. Fall term.

German 101-102. 3-6 credits
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.

German 202. 3 credits
REVIEW GRAMMAR AND COMPOSITION
Grammatical review, exercise in composition, and selected readings. Weekly audio-oral laboratory assignments.

German 204. 3 credits
INTERMEDIATE READINGS
Selected readings of moderate difficulty from writers of the 18th, 19th, and 20th centuries with a view to introducing the student to the literature and civilization of the country.

German 304-305. 3-6 credits
CONVERSATION AND COMPOSITION
Extensive practice in the comprehension of spoken German; conversation and composition. Continued use of the language laboratory.

German 306. 3 credits
READINGS IN SCIENTIFIC GERMAN PROSE
Scientific readings selected with a view towards building a technical vocabulary. A substitute for German 204.

German 310-311. 3-6 credits
ADVANCED ORAL PRACTICE
Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.
German 313. 
MEDIEVAL LITERATURE 3 credits
Study and discussion of German literature from its beginnings to the end of the medieval period.

German 315. 
LITERATURE OF THE 15th AND 16th CENTURIES 3 credits
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.

German 319. 
LITERATURE OF THE 17th AND 18th CENTURIES 3 credits
Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.

German 320. 
THE CLASSICAL AGE 3 credits
Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.

German 401. 
LITERATURE OF THE 19th CENTURY 3 credits
Study and discussion of the literature of romanticism, realism, and naturalism.

German 402. 
LITERATURE OF THE 20th CENTURY 3 credits
Study and discussion of modern German literature from 1880 to the present.

German 405. 
HISTORY OF THE GERMAN LANGUAGE 3 credits
The German language from its beginning to the present; particularly, the development of sounds, vocabulary and the formation of standard High German.

German 410. 
OLD HIGH GERMAN 3 credits
Descriptive and historical analysis of Old High German texts with their dialect features.

German 411. 
MIDDLE HIGH GERMAN 3 credits
Descriptive and historical analysis of Middle High German texts. Readings in Middle High German literature.

German 420-421. 
SEMINAR 3-6 credits
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 309, 402, 405, 420 or 421 or 422
- 6 electives in Italian
- 4 courses in second language

Italian 101-102.
ELEMENTARY ITALIAN 3-6 credits
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 202.
REVIEW GRAMMAR AND COMPOSITION 3 credits
Grammatical review, exercises in composition and selected readings.

Italian 204.
INTERMEDIATE READINGS 3 credits
Selected readings of intermediate difficulty from writers of the 19th and 20th centuries with a view to introducing the student to the literature and civilization of the country.

Italian 305.
ADVANCED GRAMMAR AND COMPOSITION 3 credits
Training in the use of correct idiomatic Italian and in the practical application of grammatical principles; exercises in written expression and in translating standard English prose into Italian.

Italian 306.
STYLISTICS 3 credits
Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids.

Italian 308.
SURVEY OF ITALIAN LITERATURE I 3 credits
Designed to provide a fundamental knowledge of Italian literature from its origins to the 16th century, with particular stress on Dante, Petrarca and Boccaccio, and their contribution to Italian humanism and the Renaissance.

Italian 309.
SURVEY OF ITALIAN LITERATURE II 3 credits
A comprehensive study of Italian literary currents from the "Marinismo" to D'Annunzio and Pirandello through neo-classicism, romanticism, and futurism, with comparative references to European literature.

Italian 402.
MODERN AUTHORS 3 credits
Includes a survey of Italian narrative and poetic production in the late 19th century and in the first half of the 20th century.
Italian 405.
HISTORY OF THE ITALIAN LANGUAGE 3 credits
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 413.
READING LIST I 3 credits
Gives an acquaintance with excerpts of Italian writers including the poets of the 12th and 13th centuries, such as Cino da Pistoia, Guido Guinizelli, Cielo D'Alcamo, Jacopo da Lentini, Guido Cavalcanti, Dante Alighieri, Francesco Petrarca, Angelo Poliziano, Lorenzo de Medici, and others.

Italian 414.
READING LIST II 3 credits
Italian poems of knighthood, with particular emphasis on L'Orlando Furioso by Ludovico Ariosto and La Gerusalemme Liberata by Torquato Tasso; reference to the antecedents of this literary genre.

Italian 420.
SEMINAR: MANZONI 3 credits
A comprehensive study of the author's major work and Italy's greatest novel, I Promessi Sposi; consideration of the author's two historic poems, "L'Adelchi" and "Il Conte di Carmagnola."

Italian 421.
SEMINAR: LEOPARDI 3 credits
A study of the works of Leopardi including "Le Operette Morali," "I Canti," and "I Pensieri."

Italian 422.
DANTE 3 credits
A comprehensive study of Dante's Divine Comedy, viewed in its different aspects: an exciting adventure story, an exposition of the poet's political action and feelings, a love story, a compendium of history, science and theology, and, finally, a program of political organization.

Italian 423.
HISTORY OF THE ITALIAN THEATRE 3 credits
A chronological survey of Italian theatre, from the religious medieval representations in the open to modern realistic drama. Special attention to Alfieri's tragedies and their influence on Italian "Risorgimento."

RUSSIAN

Required for Major in Russian: 14 courses
- Russian 304-305 or 310-311, 405-406, 420-421
- 4 Russian electives
- 4 courses in second language

Russian 101-102.
ELEMENTARY RUSSIAN 3-6 credits
Audio-lingual approach; regular exercises in language laboratory stress fundamental structural features of the contemporary spoken language.
Russian 202-204.  
INTERMEDIATE RUSSIAN  3-6 credits  
Second part of two year program based on audio-lingual principles. Continued emphasis on language laboratory work. Introduction to literature and civilization.

Russian 304-305.  
ADVANCED GRAMMAR AND CONVERSATION  3-6 credits  
Advanced grammar exercises and conversation. Reading of a Russian newspaper.

Russian 310-311.  
ADVANCED READINGS AND COMPOSITION  3-6 credits  
Selected readings of 19th and 20th century Russian prose and verse. Intensive exercises in translating standard English prose into Russian.

Russian 402-403.  
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 405.  
HISTORY OF THE RUSSIAN LANGUAGE  3 credits  
Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.

Russian 406.  
OLD RUS’ LITERATURE  3 credits  
Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on Igor’s Tale and the Primary, Kievian, and Galician-Volynian chronicles. The beginnings of fiction.

Russian 420.  
SEMINAR  3 credits  
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.

Russian 421.  
SEMINAR  3 credits  
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.

Russian 431-432.  
RUSSIAN LITERATURE OF THE 19th CENTURY  3-6 credits  
Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.
SPANISH

Required for Major in Spanish: 14 courses

- Spanish 308-309
- 8 Spanish electives
- 4 courses in second language

GENERAL EDUCATION

Spanish 200. 3 credits
MODERN SPANISH LITERATURE IN ENGLISH TRANSLATION
Spain's agony as reflected in its modern literature (the convulsions of the 19th and 20th centuries; anarchy, dictatorship, civil war, detente, the clamor of intellectuals and youth) forms the basis for discussions of the enigma of the Spanish temperament. Readings from Unamuno, Ortega y Gasset, Jimenez, and Garcia Lorca. Texts in English translation. Critical Papers. Fall term.

Spanish 201. 3 credits
CONTEMPORARY SPANISH LITERATURE IN ENGLISH TRANSLATION
Efforts of the intellectual to circumvent governmental strictures and his quest for freedom and new literary forms provide the point of departure for discussions of the works of Cela, Gironella, and Goytisolo in Spain and of Cortazar, Borges, and Asturias in Latin America. Texts in English translation. Critical Papers. Spring term.

Spanish 101-102.
ELEMENTARY SPANISH 3-6 credits
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 202.
REVIEW GRAMMAR AND COMPOSITION 3 credits
Grammatical review, exercises in composition and selected readings. One required hour per week in the language laboratory.

Spanish 204.
INTERMEDIATE READINGS 3 credits
Selected readings of intermediate difficulty from writers of the 19th and 20th centuries with a view to introducing the student to the literature and civilization of the country. One required hour per week in the language laboratory.

Spanish 300.
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 301.
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 viceroyalties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.
Spanish 304.
ADVANCED CONVERSATION 3 credits
Includes intensive oral exercises with a view towards improving the student's pronunciation and increasing his active vocabulary. Students make frequent use of audio aids.

Spanish 305.
ADVANCED GRAMMAR AND COMPOSITION 3 credits
Training in the use of correct idiomatic Spanish and in the practical application of grammatical principles; intensive exercises in written expression and in translating of standard English prose into Spanish.

Spanish 306.
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 308.
SURVEY OF SPANISH LITERATURE I 3 credits
An introduction to the study of Spanish literature which combines reading and discussion of the earliest works from the middle ages to the masters of drama of the Golden Age.

Spanish 309.
SURVEY OF SPANISH LITERATURE II 3 credits
A course in readings and discussions of the authors from the 18th century to the contemporary period, including the neoclassic and romantic eras, and the modern novelists and poets.

Spanish 310.
SURVEY OF SPANISH AMERICAN LITERATURE 3 credits
Reading and discussion of works from the colonial period to the 20th century.

Spanish 402.
READING LIST: THE SPANISH NOVEL OF THE 19th CENTURY 3 credits
The development and tendencies in the modern Spanish novel as indicated in the works of Valera, Pereda, Palacio Valdes, Alarcón, Galdos, Pardo Bazan and others.

Spanish 405.
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 discussions of the early Spanish texts and the development of the language in the early period.

Spanish 413.
READING LIST: THE SPANISH NOVEL OF THE 20th CENTURY 3 credits
Reading and discussions of the contemporary Spanish authors, their ideology and philosophies: Blasco Ibañez, Pio Baroja, Valle Inclan, Cela, Gironella, Laforet and others.
Spanish 414.
READING LIST: THE SPANISH AMERICAN NOVEL 3 credits
Readings and discussions on the sociological and the literary aspects of the leading Spanish American authors and the development of their earliest works.

Spanish 415.
READING LIST: CERVANTES 3 credits
Readings and discussions of the Galatea, Persiles, theatre, and novelas ejemplares, as well as Don Quijote.

Spanish 420.
SEMINAR: DRAMA OF THE GOLDEN AGE 3 credits
Readings, reports and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderón, Alarcón and others.

Spanish 421.
SEMINAR: THE NOVEL IN THE GOLDEN AGE 3 credits
An extensive study based on readings, reports and discussions on the evolution of the Spanish picaresque novel: Lazarillo de Tormes, Guzmán de Alfarache and others.

Spanish 422.
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 423.
RENAISSANCE LITERATURE 3 credits
The works of Boscan, 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 424.
ROMANTICISM 3 credits
A study of the early 19th century analyzes the works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.

Spanish 425.
POETRY OF THE 19th AND 20th CENTURIES 3 credits
Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.

Spanish 440.
SPANISH HONORS SEMINAR 3 credits
Tutorial conferences, papers, discussions, and experience in classroom teaching.

COMPARATIVE LITERATURE

Comparative Literature 201.
SURVEY OF WESTERN LITERATURE I 3 credits
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 203.
SURVEY OF WESTERN LITERATURE II 3 credits
Lectures on masterpieces of western literature from the end of the classical period to the present day. Course investigates relationship of the modern author to 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.

Comparative Literature 301.
CLASSICISM IN WESTERN LITERATURE 3 credits
Study and discussion of the literature of the classical age in western tradition. Designed to enable the student to discover the essential components of classicism in all the literatures studied and the significance of national variations. Team-taught.

Comparative Literature 303.
ROMANTICISM IN WESTERN LITERATURE 3 credits
Study and discussion of the literature of the romantic period in western tradition. Designed to enable the student to discover the essential components of romanticism in all the literatures studied and the significance of national variations. Team-taught.

HISTORY
JOSEPH P. O'GRADY, Ph.D., Chairman
Professors: Donaghy, O'Grady
Associate Professors: Cziraky, Hennessy, McCarthy, Rossi, Weinstein
Assistant Professors: Fair, Labunka
Instructor: Stow
Lecturer: Lukacs

Required for Major in History: 12 courses
• 4 courses from Section A and 8 courses from Section B
• OR 4 courses from Section A, 6 courses from Section B, and 2 courses from Section C.

SECTION A:
INTRODUCTORY COURSES
If a freshman elects to fulfill his distribution requirements with a history course, the department recommends one of the following courses:

History 201-202.
INTRODUCTION TO EUROPEAN HISTORY 3-6 credits
Topics in the history and geography of Europe from the barbarian invasions to the fall of the Third Reich.

THE ANCIENT WORLD 3-6 credits
A study of the ancient world with special emphasis on the politics and culture of Greece and Rome.

History 211-212.
MEDIEVAL EUROPE 3-6 credits
The rise of Christian Europe from the decline of the Roman Empire to the Age of Discovery.
History 214-215.
MODERN EUROPE
3-6 credits
The history of Europe (1500 to 1960) centered on political and social developments in Germany and France until the rise of Russia as a world power.

History 219-220.
THE UNITED STATES
3-6 credits
The shaping of the nation from its earliest settlement to its present position of world leadership and an exploration of the role of minority groups in this development.

History 230-231.
LATIN AMERICA
3-6 credits
An introduction to the history of Latin America with emphasis on the European origin of colonial and republican institutions.

History 240-241.
DEVELOPING NATIONS
3-6 credits
A study of selected areas in Asia and Africa and their interrelations with the west. Required for history-education majors.

SECTION B:
REGIONAL AND TOPICAL STUDIES
The department permits freshman with advanced standing and students above the freshman level to elect any of these courses in fulfillment of distribution requirements:

History 329-330.
AMERICAN COLONIES AND REVOLUTION
3-6 credits
A survey of the colonial place in the British Empire with emphasis on influential social, economic, intellectual, and political factors. Second semester: A survey of the period 1763 to 1789.

History 331-332.
EARLY NATIONAL AND JACKSONIAN AMERICA (1789-1840)
3-6 credits
The development of political, social, and economic institutions in the United States from the Constitution to the Jacksonian period.

History 333-334.
CIVIL WAR AND RECONSTRUCTION (1850-1877)
3-6 credits
Sectionalism and reconstruction in both North and South, stressing the causes, personalities, and military events of the disruption and reunion of the United States.

History 338-339.
THE HISTORY OF BLACK AMERICA
3-6 credits
A survey of the Negro experience in America to include social, economic, political and religious trends.

History 340-341.
AFRICAN HISTORY
3-6 credits
A political, social, and cultural study of developments south of the Sahara from the neolithic period to the present.
History 349-350.
RENAISSANCE AND REFORMATION 3-6 credits
Topics illustrating the economic, social, religious, and political changes in western society from 1400 to 1600.

History 351-352.
MODERN BRITAIN SINCE 1760 3-6 credits
A treatment of the broad social, political, and economic trends in the shaping of modern Britain.

History 353-354.
HISTORY OF MODERN FRANCE SINCE 1789 3-6 credits
A survey of the political history of the French to 1871 in the first semester, and down to the present in the second semester.

History 355-356.
HISTORY OF MODERN GERMANY SINCE 1815 3-6 credits
A survey of German life to 1914 in the first semester, and down to the present in the second semester.

History 358-359.
ABSOLUTISM AND ENLIGHTENMENT 3-6 credits
A study of European culture from the early 17th century until 1763 with emphasis upon the development of political and social institutions and important changes in intellectual history.

History 367-368.
HISTORY OF EAST CENTRAL EUROPE 3-6 credits
A survey of the development of national consciousness and of national states in east central Europe.

History 371-372.
HISTORY OF BYZANTIUM 3-6 credits
The interrelation of political, cultural and theological differences between Rome and Byzantium and the failure of ecumenical efforts to unite Christianity, 1054 to 1517.

History 415-416.
MILITARY HISTORY 3-6 credits
The history of the American military establishment, its impact upon society, and its influence upon the creation of American defense strategy and foreign policy. Fall: to 1917; Spring: 1917 to present.

History 425-426.
HISTORY OF RUSSIA 3-6 credits
The development of the Russian empire to the end of the 19th century; the rise of Soviet power after the revolution.

History 435-436.
19TH CENTURY AMERICAN LIFE AND THOUGHT 3-6 credits
Topics in the expansion and settlement of the nation with emphasis on the shaping of the American character.

History 437-438.
AMERICA IN THE 20th CENTURY 3-6 credits
Political and diplomatic changes in the United States since 1900.
History 444-445.
The Far East in the 19th and 20th centuries 3-6 credits
Concentration on China and Japan and their interaction and development since their contact with the west.

History 447-448.
Asian studies 3-6 credits
Visiting Asian professors from India, Korea, Pakistan, and China conduct group discussions concerning the history, culture, and contemporary life of their countries.

SECTION C: SEMINARS
These courses are normally reserved for history majors but may be taken by others with the permission of the chairman and the professor involved.

History 471 through 476.
Seminar 3-6 credits
An introduction to the aims and methods of the historian through the preparation of papers on selected topics in the field specified—American, European, or British—along with discussion in small group meetings or tutorial conferences.

Mathematics
Samuel J. Wiley, Ph.D., Chairman
Professors: Albright, Connelly
Associate Professors: O'Neill, Wiley
Assistant Professors: Brady, Callahan, Hofmann, McCarty, Mooney, Tropper
Instructors: Leonard, Tseng

Required for Major in Mathematics: 15 courses
• Mathematics 106, 121, 201, 216, 217, 310, 312
• 6 Mathematics courses from Section B
• Physics 111-112, or 211-212

Section A:
Mathematics 101.
Finite Mathematics 3 credits
Sets; relations and functions; logic; probability; linear systems; matrices.

Mathematics 102.
Introduction to Calculus 3 credits
The real number system; elementary functions; differential and integral calculus.

Mathematics 103.
Algebra and Trigonometry 4 credits
Sets; the real number system linear systems; matrices; logarithmic, exponential and trigonometric functions; theory of equations.

Mathematics 106.
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.
Mathematics 111-112.
MATHEMATICS FOR THE LIBERAL ARTS 3-6 credits
A terminal course aimed at liberal arts students. Fall term topics include number theory, groups, logic and set theory, and geometry. Spring term: logic, analysis, probability. Mathematics 111 is a prerequisite for 112.

Mathematics 121.
COMPUTER SCIENCE I 3 credits
Basic programming and program structure; data representation; survey of computers, languages, systems and applications; computer solution of several numerical and nonnumerical problems.

Mathematics 122.
COMPUTER SCIENCE II 3 credits
Computer systems organization, machine language, logic design, micro-programming, interpreters; symbolic coding, assembly systems, macro-definition, generation; program segmentation and linkage; systems and utility programs. Prerequisite: Mathematics 121 or Physics 315.

Mathematics 201.
LINEAR ALGEBRA 3 credits
Linear equations and matrices; real vector spaces; linear transformations and matrices; determinants; eigenvalues and eigenvectors. Prerequisite: Mathematics 102 or 106.

Mathematics 216.
CALCULUS AND ANALYTIC GEOMETRY II 4 credits
Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates. Prerequisite: Mathematics 106.

Mathematics 217.
CALCULUS AND ANALYTIC GEOMETRY III 4 credits
Linear algebra; vector functions; partial differentiation; multiple integration; infinite series; Taylor expansions. Prerequisite: Mathematics 216.

Mathematics 221.
INTRODUCTION TO 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 those structures to various areas of computer science. Prerequisites: Mathematics 121, 216.

Mathematics 222.
DATA STRUCTURES 3 credits
Basic concepts of data. Linear lists, string, arrays, and orthogonal lists. Representation of trees and graphs. Storage systems and structures, and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems. Prerequisites: Mathematics 122 and 221.

Mathematics 310.
ADVANCED CALCULUS 3 credits
Calculus of vector valued functions; Green, Gauss and Stokes theorems; infinite series. Prerequisite: Mathematics 217.
Mathematics 312.
MODERN ALGEBRA
3 credits
Sets and mappings; groups, rings and homomorphisms; Sylow theorems; quotient structures; polynomial rings; ideals.

SECTION B:
Mathematics 308.
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 217.

Mathematics 350.
PROJECTIVE GEOMETRY
3 credits
Axioms systems; duality; theorems of Desargues and Pappus; relationship between projective spaces and vector spaces; collineations; conic sections; theorem of Pascal; pole-polar duality. Prerequisite: Mathematics 312.

Mathematics 425.
MODERN ALGEBRA II
3 credits
Vector spaces, modules, linear transformations, cannonical forms of matrices, fields, Galois Theory, solvability by radicals. Prerequisite: Mathematics 312.

Mathematics 430.
TOPOLOGY
3 credits
Topological spaces; subspaces, product spaces, quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: Mathematics 312.

Mathematics 450.
NUMERICAL ANALYSIS
4 credits
Solution of algebraic, transcendental and differential equations; difference equations; matrix inversion; Gauss and Chebyschev functions. Prerequisite: Mathematics 310.

Mathematics 460.
PROBABILITY
3 credits
Probability spaces; random variables; discrete and continuous distributions; mass and density functions; moment generating functions; expectation; limit theorems. Prerequisite: Mathematics 217.

Mathematics 470.
SPECIAL FUNCTIONS
3 credits
Generating functions; orthogonal systems of functions; Legendre, Hermite, Bessel, Fourier, Gamma and Beta functions; partial differential equations. Prerequisites: Mathematics 308 and 310.

Mathematics 475.
REAL VARIABLES
3 credits
Real number system; Lebesgue measure; Lebesgue integration; differentiation; general measure and integration theory. Prerequisite: Mathematics 310.
Mathematics 481, 482, 483, 484.
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.

Mathematics 485.
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 310.

MILITARY SCIENCE
COLONEL CLARENCE W. CYR, M.A., Chairman

Military Science 101-102.
BASIC FRESHMAN MILITARY SCIENCE I 3 credits
The role of power in international affairs. The national security structure of the United States. Study of the principles of war in selected battles in world history. Team taught by political science and military science departments. Leadership: psychology of leadership. Principles of leadership and management. One hour laboratory. First semester: one hour of lecture, one hour of laboratory. Second semester: two hours of lecture, one hour of laboratory.

BASIC SOPHOMORE MILITARY SCIENCE II 3 credits
A continuation of MS I: American military history team-taught by members of the history and military science departments; map readings and geology; introduction to field artillery and other branches of the Army. Leadership: continuation of principles of leadership and management. Field trips. Two hours of lecture, one hour of laboratory: two terms.

Military Science 301-302.
ADVANCED COURSE MILITARY SCIENCE III 3-6 credits
Provides basic military education and, with other college disciplines, develops individual character and attributes essential to an officer: leadership; military teaching principles; artillery and infantry operations; communications and pre-camp orientation. Instruction and experience in exercising command. Three hours of lecture, one hour of laboratory: two terms.

Military Science 401-402.
ADVANCED COURSE MILITARY SCIENCE IV 3-6 credits
A continuation of MS III. Develops an appreciation of command and staff responsibilities: army administration; military law; operations; logistics; the role of the United States in world affairs; field artillery operations; and service orientation. Leadership: continuation of instruction and experience in exercising command. Flight training (light aviation) is available to a limited number of cadets on an extracurricular basis. Three hours of lecture, one hour of laboratory: two terms.

MUSIC
(See Fine Arts, page 53)
PHILOSOPHY

MICHAEL KERLIN, Ph.D., Chairman

Professors: Mihalich, Naughton
Associate Professors: Fitzgerald, Gibbons, Kerlin, Pierzhalski, Strosser
Assistant Professors: Allen, Fallon, Janik, Lashchyk, Lowry, Macoretta, Phillips

Required for Major in Philosophy: 11 courses
- any 100 course; any 200 course; 302, 315, 413-414, 425
- 4 philosophy electives

GENERAL EDUCATION

The student must take one course in Series A and one course in Series B to complete his General Education requirements in philosophy (The course in Series A must be completed before the one in Series B.)

SERIES A

Philosophy 101.
HUMAN NATURE AND HUMAN DESTINY 3 credits
A study of man in himself and his relationship to others and to the world. Themes discussed include the nature of philosophical argumentation; the problems of human freedom and human love; the dilemma of self-alienation; and the concern with human destiny in its various manifestations. Required readings from Plato, St. Thomas Aquinas and Hobbes.

Philosophy 102.
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 good for mankind. Required readings from Plato, Aristotle, St. Thomas Aquinas, Kant and Mill.

Philosophy 103.
ORIGINS OF PHILOSOPHICAL THOUGHT 3 credits
A study of the historical and ideological origins of philosophical thought, and their relevancy and contribution to the subsequent development of philosophical knowledge. Required readings from the Pre-Socratics, Plato and Aristotle.

SERIES B

Philosophy 201.
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. Required readings from Descartes, Kant, Sartre and the Analytic Philosophers.

Philosophy 202.
PHILOSOPHICAL APPROACHES TO GOD 3 credits
A study of philosophical positions relating to questions about the existence and nature 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. Required readings from Descartes, Hume and Kant.

Philosophy 203.
MIND AND EXPERIENCE IN MODERN PHILOSOPHY 3 credits
A study of the main trends in the classical period of modern philosophy (Descartes to Kant), and the impact of such themes as rationalism, empiricism and romanticism in the formation of the contemporary philosophical mind. Required readings from Descartes, Hume or Berkeley, and Kant.
Philosophy 302.
PROBLEMS OF KNOWLEDGE 3 credits
A survey of the nature and limits of human knowledge as presented by the major philosophers. Required of all philosophy majors; open to others approved by the chairman.

Philosophy 315.
ADVANCED MORAL PHILOSOPHY 3 credits
An inquiry into the major ethical theories that have contributed in formulating the moral conscience of the west. Students will be expected to present analytic papers on selected thinkers as well as to read and discuss the primary texts of these thinkers. Required of all philosophy majors; open to others approved by the chairman.

Philosophy 401.
AESTHETICS 3 credits
A consideration of the nature of art, art activity, art appreciation, and the function of art, with special reference to art history. The course seeks to provide the student with an elementary basis for forming a critical judgment with respect to art (and fine art) in general and specific works of art in particular.

Philosophy 402.
EASTERN PHILOSOPHY 3 credits
A comparative study of Asian thought with special emphasis on philosophies originating in India and China. Logical, metaphysical, epistemological, ethical, and political problems will be used as a framework for the study.

Philosophy 403.
AMERICAN PHILOSOPHY 3 credits
A study of vital American thought in three periods: New England transcendentalism; the classical group (Pierce, James, Royce, Santayana, Dewey, Whitehead); and the contemporary movements as seen in the philosophies of Perry, Hocking, Mead, Sellars, Lovejoy, and Brightman. The course will discuss American thought in its relationship to pragmatism, process philosophy, and personalism.

Philosophy 405.
PHENOMENOLOGY AND EXISTENTIALISM 3 credits
An approach to contemporary existentialism through the philosophies of Hegel, Kierkegaard, Nietzsche, Husserl, and Heidegger. The course will study in detail the existentialist philosophies of Sartre, Marcel, Jaspers and Unamuno, and will investigate the religious existentialism of Buber and Tillich, and the literary existentialism of Camus and Simone de Beauvoir.

Philosophy 406.
PHILOSOPHY OF SCIENCE 3 credits
An investigation of the relationship between philosophy and science from the standpoint of knowledge and method. The course will deal with philosophical problems common to the natural and social sciences, including the role of laws and theories in scientific explanation and prediction, the problem of induction and confirmation, and the nature and role of measurement and scaling. An historical survey will discuss the development of scientific method and the nature of scientific progress.
Philosophy 407.
ANALYTIC PHILOSOPHY 3 credits
A study of the basic writings of Moore, Russell, Wittgenstein, Ayer, Strawson, Austin, Ryle, and Wisdom. Topics may include: the method of linguistic analysis and its application to traditional philosophical problems; the problem of meaning and truth; the relation between language, thought, and reality; logical positivism and the faith of the verification principle; meaning and verification of statements in religious language, ethics, and metaphysics.

Philosophy 408.
SYMBOLIC LOGIC 3 credits
A study of the following branches of modern or symbolic logic: truth-functional logic; quantificational logic; and the logic of relations. Principles of Aristotelian logic will be evaluated, and the relationship between modern logic and Aristotelian logic will be analyzed.

Philosophy 409.
RUSSIAN PHILOSOPHY 3 credits
A critical examination of the dominant schools of Russian thought from the 18th century to the present, including the Slavophiles, Westernizers, Nihilists, Populists, critics of religion and culture, Marxists and Communists. Central themes are social philosophy, the nature of the individual, and the nature of history.

Philosophy 413.
HISTORY OFANCIENT AND MEDIEVAL PHILOSOPHY 3 credits
A survey of philosophy from the early Greek thinkers through the decline of Scholasticism. Required of all philosophy majors.

Philosophy 414.
HISTORY OF MODERN AND CONTEMPORARY PHILOSOPHY 3 credits
A survey of philosophy from the Renaissance period through contemporary thinkers. Required of all philosophy majors.

Philosophy 425.
SEMINAR 3 or 6 credits
A comprehensive investigation of philosophy as an integral and integrating discipline. Various staff members will lecture and lead discussions. Examination is a one hour oral comprehensive. Qualified majors (and others approved by the chairman) may elect an honors extension of the seminar (three additional credits). Requirements: maintenance of 3.75 index in philosophy, submission of an acceptable research paper done under department mentor chosen by student, and attainment of a distinguished pass in the oral examination. Required of all philosophy majors; open to others approved by chairman.

Philosophy 428.
MARX AND MARXISM 3 credits
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.
PHYSICS

JOSEPH W. SIMMONS, M.S., Chairman
Associate Professors: Guttmann, Simmons
Assistant Professors: Galatola, Longo, Strieb

Required for Major in Physics: 15 courses
- Physics 111-112, 213, 304, 309, 311, 312, 405, 407, 410, 413, 416
- Mathematics 106, 216, 217

Physics 111-112.
GENERAL PHYSICS I & II 4-8 credits
For freshman physics majors. Topics considered include mechanics, special relativity, electricity, and magnetism. Prerequisites: Mathematics 106 and 216 concurrently. Three hours lecture, two hours laboratory; two terms.

Physics 211-212.
GENERAL PHYSICS 4-8 credits
Mechanics, heat, light, sound, electricity and magnetism, and modern physics. Prerequisite: Mathematics 106. Three hours lecture, two hours laboratory; two terms.

Physics 213.
GENERAL PHYSICS III 4 credits
Includes topics relative to wave phenomena and modern physics. Prerequisites: Physics 112 or 212; Mathematics 216 concurrently. Three hours lecture, two hours laboratory.

Physics 304.
STATES, WAVES AND PHOTONS 4 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 bra-ket product and probability amplitudes; an approach to scalar diffraction through Green’s theorem and Fourier transforms; the electromagnetic field and its quantization. Prerequisite: Physics 309. Three hours lecture and one laboratory period.

Physics 305.
INTRODUCTION TO ASTROPHYSICS 3 credits
Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.

Physics 306
PLANETARY PHYSICS 3 credits
The solar system and its origins; interiors and atmospheres of terrestrial and giant planets, interplanetary matter and comets. Prerequisite: Mathematics 216.

Physics 309.
ELECTRICITY AND MAGNETISM I 3 credits
Special relativity, electrostatics, potential theory, solution of Laplace’s equation, magnetostatics, Faraday’s law, dielectrics, Maxwell’s equations, wave equation in free space, Poynting vector. Prerequisite: Physics 311 or equivalent.
Physics 310.
ELECTRICITY AND MAGNETISM II 3 credits
Electromagnetic waves in wave guides and materials, electromagnetic radiation, static and dynamic electric and magnetic properties of materials. Prerequisite: Physics 309 or equivalent.

Physics 311.
MATHEMATICAL PHYSICS I 3 credits
Vector analysis, differential equations, introduction to partial differential equations, Fourier series and boundary value problems. Emphasis on the physical origins and applications of mathematical techniques.

Physics 312.
MATHEMATICAL PHYSICS II 3 credits
Complex variables and complex integration, Fourier and Laplace transforms, special function of mathematical physics and boundary value problems. Physical applications stressed.

Physics 315.
SCIENTIFIC PROGRAMMING 3 credits
The elements of computer programming with emphasis on the Fortran language and its scientific applications. Open to all science majors and designed to enable the student to utilize computer techniques in his own field of study. Two hours lecture, two hours laboratory.

Physics 333.
GAMES PHYSICISTS PLAY 3 credits
For science and non-science majors. The methods and models physicists use in attempting to understand reality. The concepts necessary to impose order on the chaos of experimental evidence. No prerequisites.

Physics 405.
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.

Physics 407.
ATOMIC PHYSICS 4 credits
Lectures and problems dealing with the special theory of relativity, black body radiation, photoelectric and thermionic emission, wave-particle duality, uncertainty principle, Rutherford scattering, the Bohr-Sommerfeld atom, the Schrodinger equation and its application to the hydrogen atom. Additional topics include the interaction of radiation with matter, X-rays and the diatomic molecule. Prerequisite: Physics 311. Three hours lecture, one laboratory period.

Physics 408.
NUCLEAR PHYSICS 4 credits
Introductory course in nuclear physics; covers such topics as fundamental particles, properties of nuclei, radioactivity, and nuclear reactions. Prerequisite: Physics 407. Three hours lecture, two hours laboratory.

Physics 410.
ELECTRONICS 3 credits
An introductory course dealing with vacuum tube and transistor circuits. Prerequisite: Mathematics 217. Two hours lecture, one laboratory period.
Physics 413-414.
MECHANICS
3-6 credits
Topics include the single particle and systems of particles in one, two and three dimensions; rotation of a rigid body; moving coordinate systems; and the mechanics of continuous media. Lagrange's and Hamilton's equations are developed and tensor methods are introduced in their non-relationistic applications. Prerequisites: Physics 311, 312 or equivalent. Three hours lecture; two terms.

Physics 416.
QUANTUM MECHANICS
3 credits
An introductory course. Old quantum theory, Schrodinger equation, matrix mechanics, angular momentum, perturbation theory, symmetry properties of the wave function, quantum theory of measurement. Prerequisites: Physics 311, 312.

Physics 419-420.
RESEARCH
1-2 credits
Individual studies and research, presentation of papers, familiarization with the literature.

Physics 421.
HISTORY OF SCIENCE
2 credits
An introduction to scientific thought and scientific discoveries from the earliest times to the present. Individual work in the history of physics. Two hours lecture.

POLITICAL SCIENCE

ROBERT J. COURTNEY, Ph.D., Chairman
Professors: Cleary, Courtney
Associate Professor: Nathans
Assistant Professors: Dillon, Hill, McGovern
Instructor: Foley

Required for Major in Political Science: 15 courses
• Political Science 101, 103, 201, 203, 415-416
• 5 Political Science electives
• Economics 111-112
• 2 History courses from Section A

Political Science 101.
SCIENCE OF GOVERNMENT
3 credits
A study of the nature of political authority, the state, its organs and their functions. Required of all political science majors.

Political Science 103.
POLITICAL GEOGRAPHY
3 credits
A survey of the geographic factors influencing the real and potential economic and political development of nations. Required of all political science majors.

Political Science 201.
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 the states. Required of all political science majors.
Political Science 203.
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 302.
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 303.
AMERICAN CONSTITUTIONAL LAW  3 credits
An analysis of the development of the Constitution via the interpretations of the Supreme Court. Principal topics are the federal system, judicial review, separation of powers, powers of Congress and the President, the Commerce Clause, and political and civil rights.

Political Science 304.
METHODS OF POLITICAL ANALYSIS  3 credits
Introduction to conceptual approaches to study of politics and basic statistical techniques of data analysis. Presentation of select examples of statistical analysis; e.g., voting studies, Congressional roll call behavior. Recommended for students interested in graduate school and public administration.

Political Science 305.
PUBLIC ADMINISTRATION  3 credits
Analysis of the role, internal characteristics, and political activity of U.S. administrative agencies; methods and effectiveness of political control by legislative and executive bodies. Relation of administrative agencies to democratic political theory, especially in the urban context.

Political Science 401.
UNITED STATES FOREIGN RELATIONS  3 credits
The historical development of United States diplomacy and foreign policy from the period of the Revolution to 1914.

Political Science 402.
UNITED STATES FOREIGN RELATIONS  3 credits
A continuation of Political Science 401, from 1914 to the present.

Political Science 405.
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 406.
COMPARATIVE GOVERNMENT: EUROPEAN  3 credits

Political Science 407.
INTERNATIONAL RELATIONS  3 credits
An analysis of the basic patterns and major factors underlying international politics. Consideration to current international problems.
Political Science 408.  
COMPARATIVE GOVERNMENT: SOUTH AMERICAN  3 credits  
A comparative analysis of the constitutional principles and governmental organization of Argentina, Brazil, and Chile.

Political Science 409.  
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 413.  
NON-WESTERN POLITICAL SYSTEMS  3 credits  
A study of the governmental institutions and political processes of India and Pakistan. Particular emphasis will be given to factors contributing to development of democratic and non-democratic systems.

Political Science 414.  
NON-WESTERN POLITICAL SYSTEMS  3 credits  
A study of the governmental institutions and political processes of the People's Republic of China and Japan. Particular emphasis to problems of development and modernization.

Political Science 415.  
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 416.  
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 420.  
THE EDUCATION OF URBAN POPULATIONS  3 credits  
Identical with Education 420 and Sociology 420. See p. 48.

PSYCHOLOGY

JOHN P. DONDERO, F.S.C., Ph.D., Chairman  
Professors: Dondero, Grimes, McCarthy, Rooney  
Associate Professors: Brooks, Filicetti, Kovatch, Pfeiffer, Schreiner, Smith  
Assistant Professors: Bernier, Gilligan, Schrader  
Instructor: Oden  
Lecturers: Mitchell, Platt, Spergel

Required for Major in Psychology: 12 courses  
• Psychology 101, 201, 212-213, 319-320, 322  
• 3 electives in psychology  
• 2 courses in mathematics

Psychology 101.  
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.
GENERAL PSYCHOLOGY II 3 credits
A continuation of Psychology 101. For students who plan to major in psychology and for other students who desire a more intensive coverage of the principles and theories of psychology than is possible in the first course.

Psychology 212.
STATISTICS I 3 credits
An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisite: Mathematics 101-102 or equivalent.

Psychology 213.
STATISTICS II 3 credits
An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: Statistics I or equivalent.

Psychology 303.
EDUCATIONAL PSYCHOLOGY 3 credits
Identical with Education 302. See page 48.

Psychology 311.
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.

Psychology 314.
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 201.

Psychology 315.
ABNORMAL PSYCHOLOGY 3 credits
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 201 or 324 or permission.

Psychology 316.
TESTS AND MEASUREMENTS 3 credits
The selection, administration and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest and personality. Prerequisite: Psychology 212 or equivalent.

Psychology 319.
EXPERIMENTAL PSYCHOLOGY I 4 credits
A laboratory course designed to introduce the student to the classical psychological experiments and to train him in the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes and emotions. Prerequisites: Psychology 201 and 213 or permission. Three hours lecture, two hours laboratory.

N.B. General Psychology 101 is a prerequisite for all other psychology courses (with the exception of Psychology 212). With the permission of the instructor in a particular course this prerequisite may be waived.
Psychology 320.
EXPERIMENTAL PSYCHOLOGY II 4 credits
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 322.
READINGS IN PSYCHOLOGY 3 credits
Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion at one two-hour meeting weekly. Prerequisite: Psychology 201.

Psychology 324.
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. Recommended for students not majoring in psychology.

Psychology 330-331.
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 mob action, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.

Psychology 417.
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.

Psychology 422.
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.

Psychology 423.
SEMINAR I 3 credits
Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: Psychology 322 or permission of the chairman.

Psychology 424.
SEMINAR II 3 credits
A continuation of Psychology 423 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: Psychology 423 or permission of the chairman.

Psychology 425-426.
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. Program planned in advance. Prerequisite: Psychology 320 or permission of the chairman. One or two terms.
Psychology 453.
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 455.
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 or equivalent.

SOCIOLoGY
RICHARD C. LEONARD, Ph.D., Chairman
Professor: J. F. Connors
Associate Professors: Coffee, Leonard
Assistant Professors: J. T. Connors, Hornum, Ross, Stevenson, Stull
Instructors: Bird, Blankertz, Moberg

Required for Major in Sociology: 9 courses
- General Sociology: Sociology 101, 313-314, 407-408, 426 and 3 additional Sociology electives
- Concentration in Criminal Justice: Sociology 101, 313-314, 416, 426, 427-428, 429-430. Also recommended: Psychology 315, 324, 422, 455

SECTION A: SURVEY COURSES

Sociology 101.
PRINCIPLES OF SOCIOLOGY 3 credits
The role of society and culture in determining human behavior.

Sociology 103.
SOCIAL DISORGANIZATION 3 credits
A study of current maladjustments in urban and rural human relationships and of the agencies designed to assist groups and individuals concerned.

Sociology 304.
MARRIAGE AND THE FAMILY 3 credits
Mate selection, marriage, and child-rearing in a changing world.

Sociology 306.
MINORITY GROUPS 3 credits
Examination of the racial and ethnic groups that compose American society. Emphasis on the processes involved in social change in intergroup relations.

Sociology 416.
CRIMINOLOGY 3 credits
A consideration of the causes of crime, the treatment of criminals, and the machinery of justice.
Sociology 418.
CULTURAL ANTHROPOLOGY 3 credits
A cross-cultural study of the influence of culture in explaining human behavior in primitive and modern societies.

Sociology 420.
INDUSTRIAL SOCIOLOGY 3 credits
An examination of human relationships and social processes in occupational groups.

SECTION B: SPECIALIZED COURSES

Sociology 308.
THE CITY AND SOCIAL CHANGE 3 credits
A study of the rate and significance of urbanization in the United States and the world, with particular attention to the housing, planning, and redevelopment movements.

Sociology 309.
POPULATION 3 credits
Trends and differentials in fertility, mortality, migration and urbanization and national increase as these relate to levels of living in the world.

Sociology 313-314.
SOCIAL STATISTICS 3-6 credits
A general introduction to the mathematical techniques of statistics, with special emphasis on interpretation and application to sociology.

Sociology 315.
PRINCIPLES OF SOCIAL CASEWORK AND COMMUNITY ORGANIZATION 3 credits
A survey of the general areas of social work practice. This course presents an overview of community organization, and emphasizes the relation of institutional factors to a client's ability to realize his own goals. Emphasis given to the strategies advocated for social change.

Sociology/Economics 320.
INTRODUCTION TO URBAN STUDIES 3 credits
An introduction to the varied disciplinary approaches used by social scientists in their investigation of the urban scene. Study and discussions of the literature on urban affairs. Independent research projects on surrounding neighborhood area. Co-taught by sociology and economics departments. Prerequisites: 6 hours of social science. Identical with Economics 320.

Sociology/Economics 321.
SEMINAR IN URBAN STUDIES 3 credits
Intensive analysis of the city as a system of interrelated variables and institutional sub-systems. Stresses current policies and practices in the social and economic options available to various urban interest groups. Independent research projects on the Philadelphia region. Co-taught by economics and sociology departments. Prerequisites: 6 hours of social science. Identical with Economics 321.
Sociology 404.
THE SOCIOLOGY OF RELIGION
3 credits
A study of religion as a basic social institution and of its relationships with the political, economic, and stratification systems of society and with social change.

Sociology 407-408.
INTRODUCTION TO SOCIAL RESEARCH
4-8 credits
Individuals or groups are guided in planning and completing a project utilizing several social science research techniques.

Sociology 412-414.
INTRODUCTION TO SOCIAL WORK
4-8 credits
An introduction to the history of social work, and its methods and processes. Specific emphasis is placed on the contemporary social organizations that meet human needs in such matters as family relationship, physical and mental health, economic security, legal protection, and professional standards.

Sociology 421.
THE EDUCATION OF URBAN POPULATIONS
3 credits
Identical with Education 420 and Political Science 420. See p. 48.

Sociology 422.
SOCIAL PSYCHOLOGY
3 credits
Identical with Psychology 422. See page 82.

Sociology 426.
SOCIOLOGICAL THEORY
3 credits
A survey of the results of theory-making from the genetic point of view. Emphasis will be given to theorists who have had the most influence in American sociology.

Sociology 427-428.
SEMINAR IN CRIMINAL JUSTICE ADMINISTRATION
3-6 credits
The theory and practice of law enforcement, judicial, and correctional agencies. Prevention and treatment programs are critically examined through class discussions, individual projects, visits to agencies and institutions, and participation of experts in the correctional field.

Sociology 429-430.
FIELD SEMINAR IN CRIMINAL JUSTICE
4-8 credits
An interpretation of the correctional process through field placement in law enforcement, judicial, and correctional agencies and class sessions in the theory and practice of corrections.

Sociology 480.
INDEPENDENT STUDIES
3 credits
Intensive individual study of a selected sociological area under the supervision of a faculty member. Emphasis given to the reading of basic sociological literature in the selected area and the completion of a term project.
SPEECH AND DRAMA
(See English, page 48.)

THEOLOGY
WILLIAM J. MARTIN, F.S.C., S.T.D., Chairman
Associate Professors: Davis, Martin, Schepers
Assistant Professors: Efroymson, Halligan, Keenan, Kelly, Kramer,
Tuppeny, Van Everbroeck, White
Instructors: Biechler, McKenna
Lecturers: Frank, Gore, Hansbury

Required for Major in Theology: 14 courses
• 2 courses from General Education offerings; 12 additional theology electives, including at least one from each of the 4 study areas (biblical, theological, historical, and religious); Theology 485

GENERAL EDUCATION

Theology 102.
THE BIBLE AS RELIGIOUS LITERATURE 3 credits
A study of the Bible focusing on the religious and human experience of the men who produced it. A reading and analysis of the Jewish and Christian biblical literature. Literary genres of biblical literature. The course will also investigate the impact of other Near Eastern cultures and literatures on the formation of the Bible. Finally the Bible will be viewed in the broader sense of history along with its impact on men and the great religions of the world. Both terms.

Theology 103.
DIMENSIONS OF FAITH IN WESTERN THOUGHT 3 credits
An historical study of the development of Christian faith as commitment, response, and communal relationship through a reading of selected passages of Scripture, and subsequent Christian writers such as the early Church Fathers (Origen, Augustine), medieval and reformation thinkers (Aquinas, Luther, Calvin), and modern authors (Kierkegaard, Schleiermacher, Newman, Rahner). Both terms.

Theology 104.
THE PHENOMENOLOGY OF RELIGION 3 credits
A study of the diverse patterns of thought and behavior that express man's religious experience. The topics for study will be selected across the great religious traditions, from tribal and archaic cultures to the present. This course furthermore will identify the elements these great religious traditions have in common, as well as those elements that set them off from one another. Both terms.

Theology 105.
RELIGION AND THE CONTEMPORARY SEARCH FOR SELF 3 credits
What is behind the identity crisis of today? Does man need God in order to be man? Is there any human meaning apart from other men? How does man best relate to the world? These and similar questions will be examined from both the religious and secular point of view by placing in dialogue readings from fields such as: theology (Tillich, Cox, Heschel); existentialism (Sartre, Camus); psychology (Jung, Laing); literature (Eliot, Weisel, Ginsberg); and media (Dylan, Bergman). Both terms.
SECTION A: BIBLICAL STUDIES

Theology 117.
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. Prerequisite: Theology 102. (Not offered 1972-73.)

Theology 220.
CONTEMPORARY NEW TESTAMENT ISSUES: STUDIES IN JESUS 3 credits
A critical assessment of the New Testament and related sources for the meaning of Jesus. Bultmann's demythologization of the Gospels; post-Bultmann developments in the New Quest for the historical Jesus. Special consideration will be given to those Gospel passages which are the object of current controversy: Infancy Narratives, Virgin Birth, Christ's miracles, the Resurrection and post-Resurrection appearances, the messianic consciousness and divinity of Jesus. Prerequisite. Theology 102. (Not offered 1972-73.)

Theology 412.
THE NEW TESTAMENT WORLD OF JOHN AND PAUL 3 credits
A critical appraisal of the perennial significance of the major theological themes in John and Paul. Selected readings from the Fourth Gospel and Pauline Epistles will be analyzed and discussed. The Jewish, Hellenistic, and early Church influences in their composition will be examined in the context of biblical and non-biblical literature of the time. Prerequisite: Theology 102. Spring term.

Theology 421.
THE SYNOPTIC 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. Prerequisite: Theology 102. Fall term.

SECTION B: THEOLOGICAL STUDIES

Theology 125.
INTRODUCTION TO THEOLOGY AND THEOLOGICAL METHOD 3 credits
A discussion of what theology is, and what its sources and methods are. Theology will be examined as an attempt to understand, clarify, develop, and interpret the Christian faith. (Not offered 1972-73.)

Theology 250.
THEOLOGY OF THE CHURCH 3 credits
An inquiry into the life and structure of Christian community. The psychological and, theological factors which bring men together to constitute "Church." The Church as eschatological community in relation to Christ. A study of those ideas most generally attributed to Church: unity and catholicity, organization, ministry, and mission. Both terms.

Theology 260.
CONTEMPORARY CHRISTOLOGY 3 credits
A survey of the post-biblical developments concerning the person and mission of Jesus, with emphasis on the contemporary attempt to reinterpret Jesus as Man and God. Both terms.
Theology 270.
SACRAMENTS AND WORSHIP 3 credits
A study of the nature, form, and function of sacred symbols in the collective experience of mankind, with special reference to the Judaeo-Christian tradition. An inquiry into the origin and development of the specifically Christian sacraments highlighting some of the problems of modern sacramental theology. (Not offered 1972-73.)

Theology 350.
CONTEMPORARY MORAL PROBLEMS 3 credits
A study of human actions with emphasis on their religious dimensions. The question of revealed moral commands in religious tradition. The experience of morality. Various Christian moral traditions. An in-depth study of some of the current moral issues: war, conscientious objection, civil disobedience, human sexuality, business and medical ethics, etc. Both terms.

Theology 380.
PROTESTANT THEOLOGY 3 credits
A critical examination of the origin and principles of Reformation theology as they have been worked out in the religious movement called “Protestantism.” Special attention will be given to the important personages of the Reformation who have shaped the religious thinking of the West. Students will be introduced to such notable theologians as Barth, Brunner, Bultmann, Bonhoeffer, Niebuhr, Tillich, and Cox. (Not offered 1972-73.)

SECTION C: HISTORICAL STUDIES

Theology 411.
CRISIS AND PROCESS IN EARLY CHRISTIANITY 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. Fall term.

Theology 441.
RELIGIOUS DYNAMIC OF THE MIDDLE AGES AND RENAISSANCE 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. (Not offered 1972-73.)

Theology 126.
NINETEENTH-CENTURY RELIGIOUS THOUGHT 3 credits
A critical examination of the great religious movements of the nineteenth century that have most contributed to the present religious situation. This course will focus on the encounter between Christian thought and nineteenth-century philosophy, history, and natural science. Special attention will be given to Newman and the Oxford Movement; Feuerbach and the post-Hegelian criticism; the religious thought of Marx and Engels; Strauss and history; Darwin and the challenge of science. The advent of liberalism in Protestant and Catholic circles. (Not offered 1972-73.)
Theology 460.
AMERICAN RELIGIOUS THOUGHT 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. Spring term.

SECTION D: RELIGIOUS STUDIES

Theology 370.
RELIGIONS OF THE EAST 3 credits
A survey of the living religions of the world that lie outside the Judeo-Christian tradition. The sacred literature, historical origin and development, and especially the religious experience of the Hindu, Buddhist, Confucian, Taoist, and Islamic traditions will be discussed. Both terms.

Theology 375.
CONTEMPORARY 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. Both terms.

Theology 433.
RELIGIOUS ATTITUDES IN MODERN LITERATURE 3 credits
An examination of various cross-currents between religion and literature as found in representative modern texts. Man's search for ultimate meaning will be studied in such writers as Hesse, Kafka, Eliot, Beckett, and Ginsberg. An analysis of the various forms that religious experience takes (theological vs. the literary); the relation between religious questions found in modern literature and those found in the traditional scriptures (the presence or absence of God, the moral dilemma, the freedom of man). Identical with English 433. Both terms.

Theology 471.
ORIENTAL RELIGIOUS CLASSICS 3 credits
An analysis and comparison of selected Great Books of the religious traditions of India and China. Prerequisite: Theology 370. (Not offered 1972-73.)

SECTION E: SPECIAL STUDIES

Theology 431-432.
SURVEY OF CHRISTIAN THEOLOGY 3-6 credits
Fall term: Human existence, Revelation, Faith, Theology, Religion. Spring term: Creation, sin; the Holy Spirit and salvation; Christian eschatology; theology of prayer and worship. Prerequisite: 12 hours of theology. (Not offered 1972-73.)

Theology 450.
SPECIAL TOPICS 3 credits
Content of the course will be announced whenever it is offered. May be repeated for credit. (Not offered in 1972-73.)
Theology 485.
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 theology majors open to others approved by chairman. Prerequisite: 15 hours of theology. (Not offered in 1972-73.)
School of Business Administration

The School of Business Administration offers a four year undergraduate program for men and women leading to the Bachelor of Science degree. Established as a separate division of La Salle College in 1955 in order to offer an increased variety of programs to students, the School of Business has long pursued a concept of business education which prepares students for business leadership.

The School recognizes that there is no single skill that marks a good business manager. Accordingly, the program is structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a core of business subjects to acquaint the student with the major functions of business; and (3) an opportunity to concentrate in depth in one or more of the major functional areas. The program is professional in nature and is intended to provide competency in business management.

DEGREE PROGRAM

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits, about half of which are in business and economics. Professional options are available in accounting, finance, industrial management, industrial relations, marketing and quantitative analysis. Special options may be planned to meet individual needs. A cooperative program with St. Joseph's College provides students with the opportunity to become certified to teach business courses at the secondary level. With the exception of the accounting option and the business-education program, no more than 54 credits nor fewer than 45 may be in business administration and economics (excluding Ec. 111, 112).

PREPARATION FOR TEACHING

Students who wish to teach courses in business at the secondary level may receive state certification by participating in a cooperative program involving La Salle and St. Joseph's Colleges. Under this program, the student completes his General Education and Distribution requirements at La Salle, along with course work in either accounting or marketing. Education courses are pursued both at La Salle and St. Joseph's. The student receives his degree from La Salle and his certification from St. Joseph's. Arrangements for the program may be completed in consultation with the Dean.
CURRICULUM

The new 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—
   Business and Economics electives, 4 courses (12 credits)
   Free electives, 6 courses (18 credits)

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 (May be waived if writing competence is established.)
   Literature ...................... 2 semesters (English or foreign, in original or translations.)
   Philosophy ..................... 2 semesters
   Theology ....................... 2 semesters

Distribution Requirement

This requirement assures a measure of balance in the liberal arts background outside of 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. Certain courses within Areas II and IV must be selected by all students in the School of Business Administration.

Business Administration students may choose two courses from two of the three areas: Area I, III, or V.

<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>Theology</td>
<td>Economics²</td>
<td>Biology</td>
</tr>
<tr>
<td>History</td>
<td>Mathematics¹</td>
<td>Philosophy</td>
<td>Pol. Science</td>
<td>Chemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fine Arts</td>
<td>Sociology</td>
<td>Earth Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Music or Art)</td>
<td>Psychology</td>
<td>Physics</td>
</tr>
</tbody>
</table>

¹ Business students must take Mathematics 101, 102 or two advanced courses. They must also take Mathematics 121, Introduction to Computer Sciences, or equivalent.

² Economics 111, 112 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:

Functional Activities: Accounting 101, 102; Finance 230, 231; Management 240; Marketing 260; Administration 290.
Analytical Techniques: Quantitative Analysis 270; Administration 322; Management 241.

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:

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Industrial Relations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance</td>
<td>Marketing</td>
</tr>
<tr>
<td>Industrial Management</td>
<td>Quantitative Analysis</td>
</tr>
<tr>
<td>Special Options</td>
<td></td>
</tr>
</tbody>
</table>

The professional option consists of 12 credits 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. If you wish to choose a Special Option, you must obtain the Dean's approval of your program.

Electives

Business and Economics Electives—Up to 12 credits may be taken as electives in business administration and economics toward the 120 credits needed for graduation. These credits may also be used to take courses in the School of Arts and Sciences with the approval of the Dean, subject to the required minimum of 45 credits in business administration and economics (excluding Economics 111, 112). Six credits of the 12 required in the junior and senior ROTC program are approved as appropriate substitutions for business and economics electives.

Free Electives—You may use your six free electives in whatever way you choose, either grouping them to build a strong minor or using them to diversify your background or broaden your interests.
MODEL ROSTER FOR PROFESSIONAL OPTION IN ACCOUNTING

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>Acc. 101</td>
<td>Acc. 102</td>
</tr>
<tr>
<td>Eco. 111</td>
<td>Eco. 112</td>
</tr>
<tr>
<td>Dist. Req.—Areas I, III, or V</td>
<td>Dist. Req.—Areas I, III, or V</td>
</tr>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td><strong>SENIOR YEAR</strong></td>
</tr>
<tr>
<td>Acc. 201</td>
<td>Acc. 202</td>
</tr>
<tr>
<td>Fin. 230</td>
<td>Acc. 405</td>
</tr>
<tr>
<td>Mgt. 241</td>
<td>Acc. 407</td>
</tr>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td><strong>JUNIOR YEAR</strong></td>
</tr>
<tr>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>Admin. 290</td>
<td>Mgt. 240</td>
</tr>
<tr>
<td>or Mktg. 260</td>
<td>or Fin. 231</td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
<tr>
<td>Admin. 322</td>
<td>Math. 121</td>
</tr>
<tr>
<td>Dist. Req.—Areas I, III, or V</td>
<td>Dist. Req.—Areas I, III, or V</td>
</tr>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td><strong>SENIOR YEAR</strong></td>
</tr>
<tr>
<td>Fin. 230</td>
<td>Mgt. 241</td>
</tr>
<tr>
<td>Math. 101</td>
<td>Math. 102</td>
</tr>
<tr>
<td>Admin. 290</td>
<td>Mgt. 240</td>
</tr>
<tr>
<td>or Mktg. 260</td>
<td>or Fin. 231</td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
</tbody>
</table>

MODEL ROSTER FOR PROFESSIONAL OPTIONS IN FINANCE, INDUSTRIAL RELATIONS, MANAGEMENT, MARKETING, AND QUANTITATIVE ANALYSIS

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>JUNIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>Acc. 101</td>
<td>Acc. 102</td>
</tr>
<tr>
<td>Eco. 111</td>
<td>Eco. 112</td>
</tr>
<tr>
<td>Dist. Req.—Areas I, III, or V</td>
<td>Dist. Req.—Areas I, III, or V</td>
</tr>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td><strong>SENIOR YEAR</strong></td>
</tr>
<tr>
<td>Fin. 230</td>
<td>Mgt. 241</td>
</tr>
<tr>
<td>Math. 101</td>
<td>Math. 102</td>
</tr>
<tr>
<td>Admin. 290</td>
<td>Mgt. 240</td>
</tr>
<tr>
<td>or Mktg. 260</td>
<td>or Fin. 231</td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th><strong>Spring</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin. 290</td>
<td>Mgt. 240</td>
</tr>
<tr>
<td>or Mktg. 260</td>
<td>or Fin. 231</td>
</tr>
<tr>
<td>Major Course</td>
<td>Major Course</td>
</tr>
<tr>
<td>Math. 121</td>
<td>Dist. Req.—Areas I, III, or V</td>
</tr>
</tbody>
</table>

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

Administration 290.
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. Prerequisite: sophomore standing. Both terms.

Administration 322.
MANAGERIAL ECONOMICS 3 credits
Forms of competitive behavior, uses of marginal cost analysis, pricing techniques, and profit and demand measurement and forecasting are explored. Major effort is devoted to the process of evaluating alternative business solutions and tentatively formulating policies. Prerequisites: Mathematics 101, 102 and junior standing. Both terms.

Administration 323.
COMMUNICATIONS 3 credits
Situations are contrived to encourage and stimulate the student to communicate his thoughts as accurately and promptly as possible. Prerequisite: junior standing. Both terms.

Administration 324.
INSURANCE PRINCIPLES 3 credits
A survey of the underlying principles, practices, and legal aspects of life, fire, marine, fidelity and corporate surety, employer's liability, title and credit insurance. Prerequisite: junior standing. Fall term.

Administration 325.
LIFE INSURANCE 3 credits
Analysis of life insurance contracts; fundamental legal concept; rate making; construction of mortality tables and reserves; insured pension funds; tax and estate planning. Prerequisite: junior standing. Spring term.

Administration 391.
LAW OF AGENCY, PARTNERSHIPS AND CORPORATIONS 3 credits
Common and statute laws relating to the creation, operation and termination of agencies, partnerships and corporations. Emphasis on the Common Law of Agency, the Uniform Partnership Act and the Business Corporation Law of Pennsylvania. Prerequisite: Administration 290. Fall term.

Administration 392.
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. Prerequisite: Administration 290. Fall term.
Administration 393.
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. Prerequisite: junior standing. Spring term.

Administration 394.
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. Prerequisite: junior standing. Spring term.

Administration 395.
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. Prerequisite: junior standing. Spring term.

Administration 421.
BUSINESS ETHICS 3 credits
The ethical dimensions of the economy, management decision making, and governmental regulation of business and of employee behavior. Ethical concepts of business practices applied and evaluated in their legal environment. Prerequisite: senior standing. Both terms.

Administration 598-599.
READINGS AND RESEARCH IN BUSINESS 1-3 credits
Prerequisites: senior standing and approval of dean. Both terms.

ACCOUNTING

JOSEPH MARKMANN, C.P.A., Chairman
Associate Professors: DeAngelis, Guerin, Kaiser, Markmann, Reardon, Sweeney
Assistant Professor: Hanratty
Instructor: Arcuri

For the Professional Option in Accounting, the following courses are required beyond the introductory accounting courses required of all students:
The following courses in accounting may be taken as electives:
Cost Accounting (for non-Accounting majors), Management Information Systems, Advanced Cost Accounting, Financial Statement Analysis.

Accounting 101.
PRINCIPLES OF ACCOUNTING 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. Both terms.
Accounting 102.  
MANAGERIAL ACCOUNTING  
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. Spring term.

Accounting 201.  
ACCOUNTING THEORY I  
3 credits  
Application of current accounting principles and procedures to such problems as balance sheet evaluation, profit determination, equity presentation, flow of working capital, depreciation of tangibles and intangibles, application of funds and comparative statement presentation. Prerequisite: Accounting 102 and sophomore standing. Fall term.

Accounting 202.  
ACCOUNTING THEORY II  
3 credits  
Continuation of Accounting 201. Prerequisites: Accounting 201 and sophomore standing. Spring term.

Accounting 303.  
COST ACCOUNTING  
3 credits  
The place of cost accounting in modern enterprise; control of material; control of labor; distribution of factory overhead expense; consideration of forms used in "job" and "process" cost systems. Trends in cost accounting based on predetermined standards; problems in preparation and application of budgets and managerial reports. Prerequisite: Accounting 102. Should be taken in junior year by accounting majors. Fall term.
Accounting 304.
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. Spring term.

Accounting 308.
MANAGEMENT INFORMATION SYSTEMS 3 credits
Principles and problems of systems design. Identification, evaluation and modification of information flows in organizations; internal control procedures, systems for the operating functions of business. Prerequisites: Accounting 102 and a course in computers. Both terms.

Accounting 309.
COST ACCOUNTING 3 credits
Similar to Accounting 303, but intended for students not majoring in Accounting. Prerequisite: Accounting 102. Both terms.

Accounting 310.
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. Prerequisites: Accounting 102 and junior standing. Both terms.

Accounting 405.
ADVANCED ACCOUNTING THEORY AND PROBLEMS I 3 credits
A detailed study of home office and branch accounting; correction of financial statements; partnership adjustments and liquidations; mergers and the preparation of consolidated financial statements; insolvency in connection with realization and liquidations. Prerequisite: senior standing. Fall term.

Accounting 406.
ADVANCED ACCOUNTING THEORY AND PROBLEMS II 3 credits
Continuation of Accounting 405. Prerequisite: senior standing. Spring term.

Accounting 407.
INCOME TAXES 3 credits
Training in application of basic principles to the solution of tax problems; individual income tax returns, inclusions, exclusions and capital gain or loss applicable thereto; pay-as-you-go tax collection system; partnership, corporation and fiduciary income tax returns; social security, estate and gift taxes. Both terms.

Accounting 411.
ADVANCED COST ACCOUNTING 3 credits
Use of cost accounting data in the planning and control functions, including capital budgeting, segmental profit reporting and non-manufacturing cost and analysis. Prerequisite: Accounting 303. Spring term.

Accounting 512.
ACCOUNTING SEMINAR 3 credits
Research in selected topics of accounting theory. Prerequisite: senior standing. Both terms.
The Professional Option in Finance consists of four courses selected from the courses listed below in addition to Principles of Finance and Corporation Finance required of all students.

Concentration:
- Introduction to Investments and Securities Markets
- Investment Analysis and Portfolio Management

Two of the following:
- Advanced Corporate Finance
- Financial Administration
- International Commerce
- Public Finance
- Seminar in Finance

Finance 230.
PRINCIPLES OF FINANCE 3 credits
An investigation of the nature and concepts of money and credit; the financial structure of the United States and the sources of credit; effects of Federal Reserve and U.S. Treasury actions on financial institutions. Both terms.

Finance 231.
CORPORATION FINANCE 3 credits
A survey of the field of corporation finance, analyzing the corporation from its promotion through the determination of its capitalization and capital structure, and decisions as to the alternate sources of funds. Both terms.

Finance 332.
INTRODUCTION TO INVESTMENTS AND SECURITIES MARKETS 3 credits
A study of the stock market, its trading operations and regulations. Development of investment policies for personal programs as compared to institutional uses of funds. Prerequisite: Finance 230. Fall term.

Finance 333.
INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT 3 credits
Development of fundamental techniques of security analysis in order to determine investment characteristics and evaluate existing holdings of securities. Prerequisites: Finance 231, 332. Spring term.

Finance 404.
PUBLIC FINANCE 3 credits
An analysis of the revenue of 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. Same as Economics 404. Prerequisites: Economics 111, 112. Spring term.
Finance 434.
ADVANCED CORPORATION FINANCE 3 credits
An analysis of the financial theory of the firm, including financial planning and control, budgeting, measurement of profitability and risk and the cost of capital. Prerequisite: Finance 231. Fall term.

Finance 435.
FINANCIAL ADMINISTRATION 3 credits
Analysis of policies, practices and operating results of financial institutions, especially commercial banks. Comparative study of banking systems and current trends in the banking field. Prerequisite: Finance 230. Fall term.

Finance 466.
INTERNATIONAL COMMERCE 3 credits
Identical with Marketing 466.

Finance 539.
SEMINAR IN FINANCE 3 credits
Selected topics in the area of finance studied in depth under the direction of staff. Prerequisite: senior standing. Spring term.

MANAGEMENT

BRUCE V. MACLEOD, Ph.D., Acting Chairman
Professors: Goldner, Halpin
Associate Professor: MacLeod
Assistant Professor: Blum
Instructor: Joglekar

The Professional Option in Management consists of four courses selected from those following in addition to Production Management and Organizational Theory required of all students.

Concentration:
Production Organization and Control

Three of the following (one from each group of two):
Labor Problems in America
Personnel Administration
Creative Thinking and Decision Making
Business Policy
Field Participation
Seminar in Industry

Management 240.
MANAGEMENT OF PRODUCTION 3 credits
Planning, scheduling, inventory control, plant layout, plant location, work methods, personnel motivation and productivity measurement. Prerequisite: sophomore standing. Both terms.
Management 241.
ORGANIZATIONAL THEORY  3 credits
Theories of administration and organization from the bureaucratic, motivational, and cognitive aspects. Emphasis on critical analysis, comparing and contrasting differing viewpoints for solving the manager's problems. Prerequisite: sophomore standing. Both terms.

Management 342.
PRODUCTION ORGANIZATION AND CONTROL  3 credits
Production planning and control, including organizational and original planning, intermittent and continuous manufacturing, visual controls, PERT, computers and automation. Prerequisites: Management 240 and junior standing. Both terms.

Management 343.
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. Prerequisite: junior standing. Both terms.

Management 344.
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, selection, promotion and transfer, attitudes and morale, health and safety. Prerequisite: junior standing. Both terms.

Management 445.
CREATIVE THINKING AND DECISION MAKING  3 credits
Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision-making analyzed and evaluated in writing. Comprehensive reports required. Prerequisite: senior standing. Spring term.

Management 546.
BUSINESS POLICY  3 credits
Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing. Management problems and their implications; analysis and discussion of actual or simulated situations. Prerequisite: senior standing. Both terms.

Management 547.
FIELD PARTICIPATION  3 credits
Class discussion and written reports based on observation of modern industrial methods as applied by companies in the Philadelphia area. A comprehensive report on each plant visited required weekly. Prerequisite: senior standing. Spring term.

Management 548.
SEMINAR IN MANAGEMENT  3 credits
Class discussion and analysis of management development and current problem areas. Prerequisites: senior standing and authorization of chairman. Fall term.
MARKETING

GEORGE R. SWOYER, L.H.D., Chairman
Associate Professors: McCloskey, Reifsteck, Swoyer
Instructor: Tague

The Professional Option in Marketing consists of the following four courses in addition to the Principles of Marketing required of all students.

Personal Selling
Management of Promotion
Marketing Research
Marketing Management

The following courses in Marketing may be taken as electives:
Sales Administration
Industrial Marketing
International Commerce

Marketing 260.
PRINCIPLES OF MARKETING 3 credits
The marketing system: competition, pricing, product line, distribution systems, promotion and planning. Both terms.

Marketing 361.
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 260. Fall term.

Marketing 362.
MANAGEMENT OF PROMOTION 3 credits
Theory and concepts employed by organizations in presenting their marketing messages through various communication media. Analysis of psychological, sociological and economic variables affecting promotion decisions; strengths and limitations of marketing communications models. Prerequisite: Marketing 260. Spring term.

Marketing 463.
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 370 and Marketing 260. Fall term.

Marketing 464.
SALES ADMINISTRATION 3 credits
The activities of a sales administrator in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating and supervising salesmen; establishment of sales territories, quotas and budgets. Prerequisites: Marketing 260 and junior standing. Spring term.
Marketing 465.
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. Prerequisites: Marketing 260 and junior standing. Fall term.

Marketing 466.
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 466. Prerequisite: junior standing. Fall term.

Marketing 467.
MARKETING MANAGEMENT 3 credits
Integrates all other Marketing courses. Study of actual cases encourages development of management capacity and ability to make decisions based on factual analysis. Prerequisite: senior standing. Spring term.

PERSONNEL AND LABOR RELATIONS

CHARLES A. J. HALPIN, JR., M.A., J.D.
Professor: Halpin

The Professional Option in Personnel and Labor Relations consists of four of the following courses:

Concentration:
- Labor Problems in America
- Personnel Administration
- Collective Bargaining

One of the following:
- Wages and Labor Markets
- Labor Legislation
- International Labor-Management Relations

Relations 343.
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. Identical with Management 343. Prerequisite: junior standing. Fall term.

Relations 344.
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, selection, promotion and transfer, attitudes and morale, health and safety. Identical with Management 344. Prerequisite: junior standing. Spring term.
Relations 452.
LABOR LEGISLATION 3 credits
Analysis of the important federal statutes affecting labor-management relations, including the Railway Labor Act of 1926, the Norris-LaGuardia Act, the Taft-Hartley Act and the Landrum-Griffin Act. Prerequisite: Relations 343. and 344. Fall term.

Relations 453.
WAGES AND LABOR MARKETS 3 credits
Analyzes the economic and institutional factors operating in the labor market, the processes of wage determination, the determinants of the level and structure of employment, and labor productivity. Impact of union, management, and governmental policies on wages, prices, and employment. Prerequisites: Relations 343 and 344. Fall term.

Relations 454.
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 industry. Prerequisites: Relations 343, 344 and senior standing. Spring term.

Relations 555.
INTERNATIONAL LABOR-MANAGEMENT RELATIONS 3 credits
Structure and operation of labor and management institutions in selected countries. Emphasis on individual labor-management relationships, as well as on the social, economic, and political environment conditioning these relationships. Prerequisites: Relations 343 and senior standing. Spring term.

QUANTITATIVE ANALYSIS
JOSEPH R. TROXELL, Ph.D.

The Professional Option in Quantitative Analysis consists of four of the following courses beyond the basic course in Business Statistics required of all business students.

Concentration:
Operations Research Models

Three of the following:
Intermediate Statistics
Quality Control and Reliability Assurance
Topics in Application of Statistics
Linear Programming
Topics in Operations Research

Quantitative Analysis 270.
INTRODUCTION TO BUSINESS STATISTICS 3 credits
Theory, methods, and applications of descriptive and inferential statistical techniques for management problem solving. Prerequisite: sophomore standing. Both terms.
Quantitative Analysis 371.
OPERATIONS RESEARCH MODELS 3 credits
Linear programming, dynamic programming, inventory theory, simulation, queuing models, and other topics from operations research. Prerequisites: Quantitative Analysis 270 and junior standing. Spring term.

Quantitative Analysis 372.
INTERMEDIATE STATISTICS 3 credits
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 270. Spring term.

Quantitative Analysis 373.
QUALITY CONTROL AND ACCEPTANCE SAMPLING 3 credits
Theory of control charts based on the normal distribution, construction of simple X and R charts, adaptations of control charts, fundamental concepts of acceptance sampling, acceptance sampling systems. Prerequisite: Quantitative Analysis 270. Fall term.

Quantitative Analysis 474.
TOPICS OF APPLICATION OF STATISTICS 3 credits
Selected topics from nonparametric statistics and sample survey methods, Bayesian Statistics, design of experiments, and other applications. Prerequisite: Quantitative Analysis 372. Spring term.

Quantitative Analysis 475.
LINEAR PROGRAMMING 3 credits
Formulation of linear models, linear algebra, simplex method, duality, parametric programming, and their applications to business problems. Prerequisite: Quantitative Analysis 371. Fall term.

Quantitative Analysis 576.
TOPICS OF OPERATIONS RESEARCH 3 credits
Selected topics from simulation, dynamic programming and inventory models, applications of stochastic processes. Prerequisites: senior standing and consent of instructor. Spring term.

SPECIAL OPTIONS

The Special Option consists of a suitable combination of four advanced courses in the School of Business Administration or in other departments of the College. The Special Option is intended for those who elect a broad approach to their undergraduate education, for students who may have a professional objective for which the available professional options do not offer appropriate preparation, and for students who intend to enter graduate school and may wish to prepare themselves for advanced education through a special program of courses. For a Special Option program, the proposed program is submitted to the Office of the Dean of the School of Business Administration for approval.
Brother Daniel W. Burke, F.S.C., Ph.D., President of La Salle College
College Administration

BOARD OF TRUSTEES

BROTHER A. PHILIP NELAN, F.S.C., Ph.D., Chairman
BROTHER DANIEL BURKE, F.S.C., Ph.D., President
G. DENNIS O'RIEN, Ph.D.
BROTHER GREGORY NUGENT, F.S.C., Ph.D.
FRANCIS J. DUNLEAVY
BROTHER FRANCIS McLEAN, F.S.C., Ped.D.
BROTHER MARTIN J. FAHEY, F.S.C., M.A.
BROTHER COLMAN COOGAN, F.S.C., M.A.
H. BLAKE HAYMAN, M.D., LL.D.
JOHN F. CONNELLY, LL.D.
FRANCIS BRACELAND, M.D., Sc.D.
THEODORE H. MECKE, LL.D.
CHARLES MacDONALD GRACE, LL.D.
WILLIAM B. WALKER, M.B.A., LL.B.
BROTHER JEREMY McNAMARA, F.S.C., M.A.
SAMUEL P. MANDELL
JOSEPH A. GALLAGHER
ROBERT V. TRAINER
HARRY J. WHITE, Ph.D.
JOHN McSHAIN, Sc.D., Emeritus
JOSEPH SCHMITZ, JR., Sc.D., Emeritus
WALTER L. BARTHOLOMEW, JR., ESQ., Legal Adviser
JOSEPH J. SPRISSSLER, D.C.S., Financial Adviser

OFFICERS OF THE CORPORATION

BROTHER A. PHILIP NELAN, F.S.C., Chairman of the Board
BROTHER DANIEL BURKE, F.S.C., President
BROTHER F. PATRICK ELLIS, F.S.C., Vice-President
JOHN S. PENNY, Ph.D., Secretary
JOSEPH J. SPRISSSLER, D.C.S., Treasurer

COMMITTEES OF THE BOARD

Executive:
Br. Philip Nelan, Chairman
Br. Daniel Burke
Mr. Theodore Mecke
Dr. Dennis O'Brien
Mr. William Walker

Academic Affairs:
Mr. Theodore Mecke
Br. Francis McLean
Br. Colman Coogan

Development:
Mr. Francis Dunleavy
Mr. Joseph Gallagher
Dr. Harry White
Finance:
Mr. William Walker
Mr. Charles Grace
Dr. H. Blake Hayman
Br. Martin Fahey
Mr. Samuel Mandell

Nominating:
Br. Daniel Burke
Mr. John Connelly
Br. Gregory Nugent

Student Affairs:
Dr. Dennis O'Brien
Dr. Francis Braceland
Mr. Robert Trainer
Br. Jeremy McNamara

President ...................... BROTHER DANIEL BURKE, F.S.C., Ph.D.
Assistant to the President .. BROTHER DAVID S. RYAN, F.S.C., M.A.

ACADEMIC AFFAIRS ADMINISTRATION
Vice-President, Academic Affairs

BROTHER EMERY C. MOLLENHAUER, F.S.C., Ph.D.

Administrative Assistant ..................................GERALD J. JOHNSON, M.A.
Dean of Arts and Sciences.................................BROTHER HUGH N. ALBRIGHT, F.S.C., Ph.D.
Dean of Business Administration .........................BRUCE V. MacLEOD, Ph.D.
  Administrative Assistant to the Deans ...............HARRY A. McMANUS, B.A.
Dean of Evening Division and Summer Sessions .......THOMAS M. COFFEY, Ph.D.
  Assistant Dean, Evening Division .....................RAYMOND RICCI, Ed.M.
Director of Admissions, Evening Division ...............JOHN J. KING, B.A.
Director of Admissions ....................................BROTHER ANDREW BARTLEY, F.S.C., M.A.
  Coordinator for Transfers ..................BROTHER F. CHRISTOPHER, F.S.C., Ph.D.
Admissions Counselor .....................................BARBARA ARTHUR, B.A.
Registrar .....................................................DAVID J. SMITH, B.A.
  Associate Registrar ......................................MARGARET KEILY LENNON, B.A.
Chairman, Roster Committee ............................BROTHER JOHN OWENS, Ped.D.
Assistant Registrar ........................................DOMINIC J. GALANTE, B.S.
Director of Educational Services .......................DANIEL CALLAHAN, M.A.
  Programmer Analyst ..........................BROTHER DAVID C. PENDERGAST, F.S.C., M.A.
  Programmer Analyst .......................................JOSEPH HUMPHRIES
  Programmer ..................................................THELMA WRIGHT
Director of the Library ................................BROTHER THOMAS WARNER, F.S.C., B.S. in L.S.
  Director, Graduate Religion Program ...............BROTHER EDWARD DAVIS, F.S.C., Ph.D.
Director, Honors Program .................................JOHN S. GRADY, B.A.
Director, La Salle in Europe .......................LEONARD BROWNSTEIN, Ph.D.
  Director, Urban Studies and Community Service Center.....FRANK DELANY, B.A.

STUDENT AFFAIRS ADMINISTRATION
Vice-President, Student Affairs .......................THOMAS N. McCARTHY, Ph.D.
Dean of Student Life Programs .........................PHYLLIS A. MONTGOMERY, Ed.D.
Director of Campus Ministry ............................REV. HENRY A. JAFOLLA, O.Praem., B.A.
Director of Counseling Center .........................FRANK J. SCHREINER, Ed.D.
  Assistant Director .......................................PETER FILICETTI, Ph.D.
Director of Financial Aid .................................FRANK B. McKEOGH, B.S.
  Assistant Director .......................................EUGENE C. CATTIE
  Financial Aid Counselor ..............................KATHLEEN EWALD
Director of College Union ................................JOHN H. VEEN, B.A.
  Assistant Director .......................................THOMAS J. POWELL, B.A.
Administrative Assistant .................................CAROLYN R. HALSTRICK, B.A.
Director of Recreation and Athletics ........................................... JOHN J. CONBOY, M.B.A.
Asst. Director & Building Coordinator ................................... JOSEPH F. O’DONNELL, B.A.
Intramural Director ..................................................................... JOHN J. LUMSDEN
Director of Student Activities ................................................... GERALD T. DEES, B.A.
Director of Housing ................................................................. BROTHER WILLIAM A. BOZEL, F.S.C., M.A.
Assistant Director ........................................................................ JAMES J. CRAIG
Medical Director ................................................................. GEORGE E. McLAUGHLIN, M.D.
College Psychiatrist ............................................................. WARREN E. SMITH, M.D.
Dispensary Nurses ................................................................. REGINA K. GORDON, R.N.
LORRAINE M. MULLIN, L.P.N.

BUSINESS AFFAIRS ADMINISTRATION
Coordinator of Physical Development and Planning
BROTHER GREGORY PAUL, F.S.C., Ph.D.
Comptroller ............................................................................. DAVID C. FLEMING, B.S.
Superintendent of Buildings and Grounds ........................ DONALD MASSER
Director of Food Services ................................................... THOMAS L. SHAW
Manager of Campus Store .................................................... CHARLES MOONEY, B.S.

PUBLIC AFFAIRS ADMINISTRATION
Vice-President, Public Affairs ........................................... JOHN L. MCCLOSKEY, M.B.A.
Director of Development ..................................................... BROTHER F. PATRICK ELLIS, Ph.D.
Associate Director ............................................................. FRANCIS J. McGOVERN, M.A.
Assistant Director ............................................................... BROTHER FRANCIS J. MCCORMICK, F.S.C., M.A.
Director of News Bureau .................................................... ROBERT LYONS, JR., B.A.
Assistant Director ................................................................. JOSEPH P. BATORY, B.A.
Director of Alumni ................................................................. JAMES McDONALD, B.A.
Assistant Director ................................................................. WILLIAM B. FYNES, JR., B.A.
Director, Career Planning and Placement .................. L. THOMAS REIFSTECK, M.B.A.
College Representative, Special Affairs
BROTHER JAMES CONAGHAN, F.S.C., M.A., LL.D.

COLLEGE COUNCIL
Brother Burke, Chairman. Brother Mollenhauer, Dr. McCarthy, Dr. Sprissler, Mr. McCloskey, Brother Albright, Dr. MacLeod, Dr. Coffee. Faculty Representatives: Dr. Rooney, Mr. Kelly, Dr. Mooney. Three Student Representatives. Secretary: Mrs. Lennon.

FACULTY SENATE
President: Dr. Rooney. Vice-President: Mr. Moran. Secretary: Brother Bangs. Brother Bernian, Mr. DeAngelis, Dr. Dillon, Dr. Domineske, Mr. Efroymson, Dr. Fallon, Dr. Flubacher, Mr. Kelly, Mr. McCarthy, Sister McKenna, Dr. Mooney, Mrs. Most, Mrs. Musil, Mr. Nathans, Dr. O’Grady, Dr. Reardon, Dr. Seydow.

COLLEGE COMMITTEES
A complete list of the standing committees of the College and the membership of each committee is included in the La Salle College Handbook.
Faculty of the College

BROTHER HUGH N. ALBRIGHT, F.S.C., Professor, Mathematics, B.A., Catholic University; M.A., Ph.D., University of Pennsylvania

CARL J. ALLEN, Assistant Professor, Philosophy, B.A., Colorado College; M.A., Notre Dame University

RODDY V. AMENTA, Assistant Professor, Earth Science, B.A., University of Connecticut; M.S., George Washington University; Ph.D., Bryn Mawr College

NICHOLAS ANGEROSA, Instructor, Spanish, B.A., La Salle College; M.A., Temple University

MELANIE S. ARCURI, C.P.A., Instructor, Accounting, B.S., Bloomsburg State College; M.S.B.A., Bucknell University

KAREN AVENICK, Assistant Reference Librarian, B.A., Chestnut Hill College; M.S. in L.S., Drexel University

BROTHER ARTHUR J. BANGS, F.S.C., Assistant Professor, Education, B.A., M.A., La Salle College; M.A., University of Pittsburgh; M.A., Ph.D., Catholic University

MAX BARTH, Professor, Chemistry, B.A., Ph.D., New York University

JAMES E. BIECHLER, Instructor, Theology, B.A., Marquette University; M.A., St. Paul College; J.C.L., Catholic University

SAMUEL VAN BIRD, Instructor, Sociology, A.B., Fort Valley State College; B.D., Seabury-Weston Theological Seminary; M.A., Temple University

ELVIRA BELTRAMO, Cataloguer, B.A., Louisiana State University; B.S. in L.S., Louisiana State University

NORBERT BELZER, Assistant Professor, Biology, B.A., La Salle College; M.S., University of South Dakota; Ph.D., Washington State University

BROTHER DANIEL BERNIAN, F.S.C., Professor, French, President Emeritus, B.A., Catholic University; M.A., University of Pennsylvania; Ph.D., Laval University; LL.D., Villanova University, St. Joseph's College, Temple University; Ped.D., La Salle College

JOSEPH J. BERNIER, Assistant Professor, Psychology, B.A., Juniata College; M.Ed., Rutgers University

WILLIAM J. BINKOWSKI, Associate Professor, Education, B.S., La Salle College; M.A., University of Pennsylvania

*LAURA E. BLANKERTZ, Instructor, Sociology, B.A., Swarthmore College; M.A., Bryn Mawr College

HENRY H. BLUM, Assistant Professor, Management, B.S., Syracuse University; M.A., University of Pennsylvania

BERNHARDT G. BLUMENTHAL, Associate Professor, German, B.A., La Salle College; M.A., Northwestern University; Ph.D., Princeton University

DIANE BLUMENTHAL, Assistant Professor, German, B.A., Lake Erie College; M.A., Northwestern University; Ph.D., University of Pennsylvania

REVEREND JOHN BOGACZ, Associate Professor, Biology, M.S., Fordham University; Doctor of Science, University of Paris

RICHARD P. BOUDREAU, Professor, French, B.A., Seton Hall University; M.A., Ph.D., Princeton University

WALTER J. BOYKO, Lecturer, Chemistry, B.A., La Salle College

HELEN M. BRADY, Instructor, Mathematics, A.B., Chestnut Hill College; M.S. in Ed., University of Pennsylvania

*On leave
MARY E. BRODERICK, Circulation Librarian, B.S. in Ed., Millersville State Teachers College

VICTOR D. BROOKS, Associate Professor, Psychology, B.S. in Ed., University of Pennsylvania; M.Ed., Ed.D., Temple University

LEONARD A. BROWNSTEIN, Associate Professor, Spanish, B.A., M.A., Temple University; Ph.D., Bryn Mawr College

YEHO'SUA BUCH, Instructor, Finance, B.S., Hebrew University of Jerusalem; M.B.A., Temple University; Ph.D., University of Pennsylvania

BROTHER DANIEL BURKE, F.S.C., Professor, English, B.A., Catholic University; M.A., Ph.D., Catholic University

JAMES BUTLER, Assistant Professor, English, B.A., La Salle College; M.A., Ph.D., Cornell University

JOSEPH P. CAIRO, Assistant Professor, Economics, B.A., La Salle College; M.A., University of Pennsylvania

DANIEL CALLAHAN, Assistant Professor, Mathematics, B.A., M.A., La Salle College; M.A., University of Pittsburgh

GEOFFREY CARTER, Assistant Professor, English, B.A., Honours, Cambridge University; Ph.D., University of Pennsylvania

JOHN H. CHRISTIE, Lecturer, Insurance, B.S., La Salle College

CASIMIR CIESLA, Professor, Economics, Dr. Rer. Pol., University of Innsbruck

GARY K. CLABAUGH, Assistant Professor, Education, B.A., Indiana State University (Pa.); M.S., Ed.D., Temple University

C. RICHARD CLEARY, Professor, Political Science, B.A., St. Peter's College; M.A., Ph.D., Fordham University

THOMAS M. COFFEE, Associate Professor, Sociology, A.B., St. Benedict's College; M.A., Emory University; Ph.D., University of Notre Dame

BROTHER DAMIAN CONNELLY, F.S.C., Professor, Mathematics, B.A., M.S., Ph.D., Catholic University; M.A., University of Notre Dame

JOHN F. CONNORS, Professor, Sociology, B.A., Mt. St. Mary's College; M.A., Ph.D., Catholic University

JOHN T. CONNORS, Assistant Professor, Sociology, B.A., La Salle College; M.S.W., Fordham University; M.A., St. Joseph's College; M.A., Villanova University

THOMAS E. COPELAND, Instructor, Finance, B.A., Johns Hopkins University; M.B.A., University of Pennsylvania

ROBERT J. COURTNEY, Professor, Political Science, B.A., La Salle College; M.A., Niagara University; Ph.D., University of Pennsylvania

DENNIS M. CUNNINGHAM, Assistant Professor, English, B.A., La Salle College; M.A., Villanova University

CLARENCE W. CYR, COLONEL, ARTY., Professor, Military Science, B.S., United States Military Academy; M.A., Vanderbilt University; Diploma, Army War College

J. SANDOR CZIRAKY, Associate Professor, History, B.A., La Salle College; M.A., University of Notre Dame; Ph.D., University of Pennsylvania; M.S. in L.S., Drexel University

*BROTHER EDWARD DAVIS, F.S.C., Associate Professor, Theology, Ph.B., M.A., Loyola College; M.A., La Salle College; Ph.D., Catholic University

MICHAEL A. De ANGELIS, Associate Professor, Accounting, B.S., M.S., Temple University

*On leave
BROTHER GREGORY CLAUDE DEMITRAS, F.S.C., Associate Professor, Chemistry, A.B., M.A., La Salle College; Ph.D., University of Pennsylvania
JAMES J. DEVLIN, Associate Professor, English, B.A., La Salle College; M.A., Ph.D., University of Pennsylvania
GEORGE K. DIEHL, Assistant Professor, Music, Mus.B., M.A., University of Pennsylvania
MICHAEL R. DILLON, Assistant Professor, Political Science, B.A., M.A., Ph.D., University of Notre Dame
DOMENICO A. DI MARCO, Associate Professor, Italian and Classics, M.A., D.Litt., University of Rome
CHRISTA K. DIXON, Assistant Professor, German, Staatsexamen, Goettingen, Heidelberg; Ph.D., University of Bonn
EDWARD J. DOMINESKE, Associate Professor, Business Law, B.A., J.D., Cornell University
BROTHER THOMAS J. DONAGHY, F.S.C., Professor, History, B.A., Catholic University; M.A., Ph.D., University of Pittsburgh
BROTHER JOHN P. DONDERO, F.S.C., Professor, Psychology, B.A., La Salle College; M.Litt., University of Pittsburgh; M.A., Ph.D., Catholic University
PAUL R. DORAN, Associate Professor, English, B.A., Catholic University; M.A., Ph.D., University of Pennsylvania
JOHN A. DUFFY, Assistant Professor, Economics, B.A., La Salle College; Ph.D., Boston College
LEROY E. EDWARDS, JR., MAJOR, INF., Assistant Professor, Military Science, B.A., Pennsylvania State University
DAVID P. EFROYMSON, Assistant Professor, Theology, B.A., M.A., S.T.L., St. Mary of the Lake Seminary
BROTHER F. PATRICK ELLIS, F.S.C., Associate Professor, English, B.A., Catholic University; M.A., Ph.D., University of Pennsylvania
SHIRLEY ANN ERIKSSON, Assistant Professor, English, A.B., University of Pennsylvania; M.A., University of Connecticut
THEOPOLIS FAIR, Assistant Professor, History, B.A., Fiske University; Diploma, University of Madrid; M.A., Columbia University; Ph.D., Temple University
JAMES C. FALLON, Assistant Professor, Philosophy, B.S., St. Joseph’s College
ROBERT T. FALLON, Associate Professor, English, B.S., United States Military Academy; M.A., Canisius College; M.A., Ph.D., Columbia University
DORANNE FENOALTEA, Assistant Professor, French, B.A., Mount Holyoke College; M.A., Ph.D., Harvard University
PETER J. FILICETTI, Associate Professor, Psychology, B.A., Holy Cross College; M.A., Ph.D., Fordham University
EUGENE J. FITZGERALD, Associate Professor, Philosophy, B.A., La Salle College
JOSEPH F. FLUBACHER, Professor, Economics, B.A., La Salle College; M.A., Ed.D., Temple University
FRED J. FOLEY, JR., Instructor, Political Science, B.A., St. Joseph’s College; M.A., Princeton University
JAMES P. FOOTE, Assistant Professor, English, B.A., M.F.A., Catholic University
THOMAS J. FOX, Instructor, Fine Arts, B.A., M.A., Pennsylvania State University
RABBI BERNARD S. FRANK, Lecturer, Theology, B.A., Brandeis University; B.H.L., M.A.H.L., Hebrew Union College
CARL L. FROMUTH, Assistant Professor, Education, B.S., M.S., Temple University
CHARLES J. FULFORTH, Acquisitions Librarian, B.A., La Salle College; M.A.L.S., University of Michigan
ANTHONY GALATOLA, Assistant Professor, Physics, B.S., Brooklyn College; Ph.D., University of Pennsylvania
JOSEPH E. GEMBALA, Lecturer, Business Law, B.A., La Salle College; B.B.L., J.D., Temple University
RICHARD T. GERUSON, Assistant Professor, Economics, A.B., Fordham University; M.A., New York University
JOHN F. GIBBONS, Associate Professor, Philosophy, B.A., S.T.B., Ph.L., West Baden College
ROBERT M. GILLIGAN, Assistant Professor, Psychology, B.A., University of Dayton; M.A., University of Connecticut
BERNARD B. GOLDNER, Professor, Management, B.S., M.A., Ph.D., University of Pennsylvania
SISTER THOMAS MARY GORE, M.S.B.T., Lecturer, Theology; A.B., St. Joseph’s College, Me.; M.A., Catholic University
JOHN GRADY, Assistant Professor, Economics, B.A., University of Notre Dame
BROTHER F. VINCENT GRIMES, F.S.C., Professor, Psychology, B.A., M.A., Ph.D., Catholic University
FRANCIS J. GUERIN, C.P.A., Associate Professor, Accounting, B.S., La Salle College
BROTHER MARK GUTTMANN, F.S.C., Associate Professor, Physics, B.S., M.S., Catholic University; Ph.D., University of Notre Dame
JONATHAN D. HAIGHT, CAPTAIN, ARTY., Assistant Professor, Military Science, B.A., Alfred University
REVEREND RAYMOND F. HALLIGAN, O.P., Assistant Professor, Theology, B.A., Providence College; S.T.B., S.T.L., Pontifical Institute of the Immaculate Conception; M.A.S.S., St. Louis University
CHARLES A. J. HALPIN, JR., Professor, Personnel and Labor Relations, B.S., La Salle College; M.A., University of Pennsylvania; J.D., Temple University
WILLIAM H. HAMMILL, Instructor, English, B.A., La Salle College; M.A., Temple University
JAMES A. HANES, Assistant Professor, Art, Artist in Residence, Diploma, Pennsylvania Academy of Fine Arts; Fellow of the American Academy in Rome
HOWARD L. HANNUM, Associate Professor, English, B.A., La Salle College; M.A., Ph.D., University of Pennsylvania
JOHN J. HANRATTY, C.P.A., Assistant Professor, Accounting, B.A., La Salle College; M.B.A., Drexel University
MARY HANSBURY, Lecturer, Theology, A.B., M.A., Temple University
BROTHER RICHARD HAWLEY, F.S.C., Assistant Professor, Biology, B.A., M.A., Catholic University
ARTHUR L. HENNESSY, Associate Professor, History, B.A. Catholic University; M.A., Harvard University; Ph.D., Georgetown University
KENNETH L. HILL, Assistant Professor, Political Science, B.A., Hofstra University; M.A., New York University
CHARLES E. HOFMANN, III, Assistant Professor, Mathematics, B.A., M.A., Villanova University; Ph.D., Temple University

*On leave
ROLAND HOLROYD, A.F.S.C., Professor, Biology, B.S. in Biol., M.A., Ph.D., University of Pennsylvania; Sc.D., La Salle College

FINN HORNUM, Assistant Professor, Sociology, B.A., University of Copenhagen; M.A., Haverford College

ALLAN JANIK, Assistant Professor, Philosophy, B.A., St. Anselm’s College; M.A., Villanova University; Ph.D., Brandeis University

PRAFULLA N. JOGLEKAR, Instructor, Management, B.Sc., Nagpur University, India; M.B.A., Indian Institute of Management

BROTHER F. JOSEPH, F.S.C., Assistant Professor, German, B.A., Villanova University; B.S. in L.S., Drexel University; M.A., University of Pennsylvania

WALTER J. KAISER, C.P.A., Associate Professor, Accounting, B.S., La Salle College

JOSEPH A. KANE, Assistant Professor, Economics, B.S., La Salle College; M.S., St. Louis University; Ph.D., Temple University

JOHN J. KEENAN, Associate Professor, English, B.A., La Salle College; M.A., University of Pennsylvania

*BROTHER JOSEPH KEENAN, F.S.C., Assistant Professor, Theology, B.A., M.A., La Salle College

CHARLES V. KELLY, Professor, English, B.A., St. Joseph’s College; M.A., University of Pennsylvania

BROTHER GEFREY B. KELLY, F.S.C., Assistant Professor, Theology, A.B., M.A., La Salle College; M.A., Villanova University; S.T.L., S.T.D., Louvain University

MICHAEL J. KERLIN, Associate Professor, Philosophy, B.A., M.A., La Salle College; Ph.B., Ph.L., Ph.D., Gregorian University, Rome

JOHN C. KLEIS, Associate Professor, English, B.A., M.A., University of Michigan; Ph.D., University of Pennsylvania

KENNETH S. KNODT, Assistant Professor, English, B.A., Northwestern University; M.A., Michigan, State University; Ph.D., Purdue University

CLAUDE F. KOCH, Professor, English, B.S., La Salle College; M.A., University of Florida

JOSEPH D. KOVATCH, Associate Professor, Psychology, B.S., Villanova University; M.A., Ph.D., University of Ottawa

ALEXANDER KOZIOLEK, JR., CAPTAIN, ARMY., Assistant Professor, Military Science, B.A., M.A., Mankato State College

KENNETH P. KRAMER, Assistant Professor, Theology, B.A., Ph.D., Temple University; B.D., Andover Newton Theological School; S.T.M., Yale Divinity School

RAYMOND KSIAZEK, Assistant Professor, Biology, B.A., La Salle College

MIROSLAV LABUNKA, Assistant Professor, History, B.A., Cleemborg, Netherlands; M.S. in L.S., Columbia University; Licence en Sciences Historiques, Louvain


EUGENE LASHCHYK, Assistant Professor, Philosophy, B.A., M.A., City College of New York; Ph.D., University of Pennsylvania

RICHARD E. LAUTZ, Assistant Professor, English, B.S., State University College at Buffalo, N.Y.; M.A., University of Arkansas; Ph.D., University of Pennsylvania

RICHARD C. LEONARD, Associate Professor, Sociology, A.B., St. Thomas College; M.A., Ph.D., Catholic University

STEPHEN B. LEONARD, Instructor, Mathematics, A.B., Middlebury College; M.S., Lehigh University

STEPHEN LONGO, Assistant Professor, Physics, A.B., La Salle College; M.S., Lehigh University

*On leave
THOMAS J. LOWERY, Associate Professor, Biology, B.S., St. Francis College, Brooklyn; M.S., Ph.D., Fordham University

ATHERTON C. LOWRY, Assistant Professor, Philosophy, B.A., Georgetown University; M.A., Fordham University

JOHN LUKACS, Lecturer, History, Ph.D., University of Budapest

ROBERT S. LYONS, Lecturer, English, B.A., La Salle College

BRUCE V. MacLEOD, Associate Professor, Management, B.A., University of Maine; M.I.A., Yale University; Ph.D., Case Western Reserve University

SIDNEY J. MacLEOD, JR., Assistant Professor, English, B.S.S., St. Mary’s College (Minn.); M.F.A., Catholic University

ROBERT F. McCAFFREY, Instructor, Finance, B.S., Widener College

JOHN J. McCANN, Assistant Professor, French, B.A., La Salle College; M.A., Ph.D., University of Pennsylvania

DENNIS J. McCARTHY, Associate Professor, History, B.A., La Salle College; M.A., Fordham University

THOMAS N. McCARTHY, Professor, Psychology, B.A., M.A., Catholic University; Ph.D., University of Ottawa

CARL P. McCARTY, Assistant Professor, Mathematics, B.A., La Salle College; M.A., Ph.D., Temple University

*JOSEPH D. McCLATCHY, JR., Instructor, English, B.A., Georgetown University

CHARLES McCLELLAND, Lecturer, English, B.A., M.A., La Salle College

JOHN McCLOSKEY, Associate Professor, Marketing, B.S., La Salle College M.B.A., Temple University

PHILIP E. MCGOVERN, Assistant Professor, Political Science, B.A., La Salle College; M.A., Villanova University; Ph.D., Case Western Reserve University

SISTER MARGARET MCKENNA, S.C.M.M., Instructor, Theology, A.B., Chestnut Hill College; M.A., University of Notre Dame; Diploma, Ecole Biblique et Archaeologique Francaise, Jerusalem

JOHN McLAUGHLIN, Assistant Professor, English, A.A., Boston University; B.A., Harvard University; M.A., University of California, Berkeley; Ph.D., Harvard University

ORMOND P. MACORETTA, Assistant Professor, Philosophy, B.A., St. Michael’s College, University of Toronto; M.A., University of Toronto

RITA S. MALL, Assistant Professor, French, B.A., Brooklyn College; M.A., New York University; Ph.D., University of Illinois

JOSEPH G. MARKMANN, C.P.A., Associate Professor, Accounting, B.S., La Salle College

BROTHER WILLIAM J. MARTIN, F.S.C., Associate Professor, Theology, B.A., Catholic University; M.A., University of Pittsburgh; S.R.L., Pontifical Institute “Jesus Magister”; S.T.D., Lateran University, Rome

JOSEPH C. MIHALICH, Professor, Philosophy, B.A., M.A., Duquesne University; Ph.D., Georgetown University

LOTTIE MITCHELL, Lecturer, Psychology, B.S., Howard University; M.Ed., Temple University

KENNETH H. MOBERG, Instructor, Sociology, B.C.P., University of Pennsylvania; M.A., Temple University

BROTHER EMMET C. MOLLENHAUER, F.S.C., Associate Professor, English, B.A., Catholic University; M.A., Ph.D., University of Pittsburgh

JOHN T. MOONEY, Assistant Professor, Mathematics, B.A., La Salle College; B.S., University of Scranton; M.A., Villanova University

*On leave
JOSEPH P. MOONEY, Professor, Economics, B.A., La Salle College; M.A., Ph.D., University of Pennsylvania

JOSEPH L. MORAN, Associate Professor, Spanish, B.A., La Salle College; M.A., Middlebury College

GLENN A. MOROCCO, Assistant Professor, French, B.S., Miami University of Ohio; M.A., Middlebury College

GEORGETTE M. MOST, Reference Librarian, B.A., Swarthmore College; B.S. in L.S., Drexel University

BROTHER JAMES MULDOON, F.S.C., Assistant Professor, Biology, B.A., La Salle College; Ph.D., Case Western Reserve University

CARYN M. MUSIL, Instructor, English, B.A., Duke University; M.A., Northwestern University

FRANCIS J. NATHANS, Associate Professor, Political Science, B.A., La Salle College; M.A., University of Pennsylvania

E. RUSSELL NAUGHTON, Professor, Philosophy, B.A., Providence College; M.A., Ph.D., Catholic University

DAVID L. ODEN, Instructor, Psychology, B.A., San Diego State College; M.A., University of Pennsylvania

JOSEPH P. O'GRADY, Professor, History, B.A., La Salle College; M.A., University of Notre Dame; Ph.D., University of Pennsylvania

MICHAEL A. O'KEARAN, Instructor, Finance, B.A., Villanova University

BROTHER JOHN O'NEILL, F.S.C., Assistant Professor, Mathematics, B.A., Catholic University; M.A., Villanova University; Ph.D., University of Pittsburgh

BROTHER GREGORY P'aul, F.S.C., Professor, Chemistry, President Emeritus, B.S., M.S., Ph.D., Catholic University; LL.D., Villanova University

*WALTER J. PAULITS, Associate Professor, English, B.S., Catholic University; M.A., Ph.D., University of Pittsburgh

JOHN S. PENNY, Professor, Biology, B.A., La Salle College; M.S., Ph.D., University of Pennsylvania

GEORGE A. PERFECKY, Assistant Professor, Russian, B.A., University of Pennsylvania; M.A., Ph.D., Columbia University

MARK G. PEIFFER, Associate Professor, Psychology, B.A., Eastern College; M.A., Ph.D., Temple University

THOMAS R. PHILLIPS, Assistant Professor, Philosophy, B.A., M.A., University of Notre Dame

RAYMOND J. PIERZCHALSKI, Associate Professor, Philosophy, B.A., M.A., Catholic University; Ph.D., University of Ottawa

JEROME PLATT, Lecturer, Psychology, A.B., University of Missouri; M.S., Ph.D., University of Georgia

ROBERT F. POLEK, Lecturer, Chemistry, B.A. La Salle College

JOAN FAYE PRITCHARD, Assistant Professor, Psychology, B.A., Greensboro College; Ph.D., Kansas State University

P. SREENIVASA ROA, Assistant Professor, English, B.A., M.A., University of Mysore

JOHN F. REARDON, Associate Professor, Accounting, B.S., La Salle College; M.B.A., University of Pittsburgh; Ed.D., Temple University

THOMAS REIFSTECK, Associate Professor, Marketing, B.S., La Salle College; M.B.A., University of Pennsylvania

*On leave
THOMAS M. RIDINGTON, Assistant Professor, Art, B.A., Haverford College; M.Ed., Temple University; M.A., M.F.A., University of Pennsylvania

DANIEL J. RODDEN, Professor, English, B.A., La Salle College; M.F.A., Catholic University

MARILYN ROEHM, Assistant Professor, Education, B.S., M.A., Syracuse University

JOHN J. ROONEY, Professor, Psychology, B.A., La Salle College; M.A., Ph.D., Temple University

SALLY A. ROSS, Assistant Professor, Sociology, B.A., Central State University; M.S.W., University of Pennsylvania

JOHN P. ROSSI, Associate Professor, History, B.A., La Salle College; M.A., University of Notre Dame; Ph.D., University of Pennsylvania

LEO D. RUDNYTZKY, Associate Professor, German, B.A., La Salle College; M.A., University of Pennsylvania; Ph.D., Ukrainian Free University, Munich

ALFRED A. RUGGIERO, Instructor, English, B.A., La Salle College; M.A., St. Louis University

BRONISLAW S. SADNICKI, Lecturer, Economics, Doctor of Economics and Commerce, University of Rome

BROTHER GILBERT JUDE SAPONE, F.S.C., Associate Professor, Classics, B.A., M.A., La Salle College; M.Litt., Ph.D., University of Pittsburgh

REVEREND MAURICE B. SCHEPERS, O.P., Associate Professor, Theology, B.A., Dominican House of Studies; S.T.L., Pontifical Institute of the Immaculate Conception; S.T.D., University of St. Thomas, Rome

CHARLES H. SCHRADER, Assistant Professor, Psychology, B.S., M.S., Ph.D., University of Iowa

FRANK J. SCHREINER, Associate Professor, Psychology, B.S., Millersville State College; Ed.M., Ed.D., Temple University

JOHN J. SEYDOW, Assistant Professor, English, B.A., La Salle College; M.A., Ph.D., Ohio University

BROTHER EDWARD PATRICK SKEEKEY, F.S.C., Associate Professor, English, B.A., M.A., La Salle College

JOSEPH W. SIMMONS, Associate Professor, Physics, B.S., M.S., University of Notre Dame

JOHN ALEXANDER SMITH, Associate Professor, Psychology, B.A., La Salle College; M.S., Pennsylvania State University; Ed.D., Temple University

PHILIP SPERGEL, Lecturer, Psychology, B.A., M.A., Ph.D., Temple University

GEORGE C. STEPHENS, Assistant Professor, Earth Science, B.S., M.S., George Washington University; Ph.D., Lehigh University

GEORGE W. STEVENSON, Assistant Professor, Sociology, B.S., University of Wisconsin; M.A., University of Michigan; Ph.D., University of Minnesota

GEORGE B. STOW, Instructor, History, B.A., Lehigh University; M.A., University of Southern California

THOMAS S. STRAUB, Assistant Professor, Chemistry, A.B., Princeton University; M.S., University of Minnesota; Ph.D., Illinois Institute of Technology

BERTRAM STRIEB, Assistant Professor, Physics, B.A., M.S., University of Pennsylvania

RICHARD F. STROSSER, Associate Professor, Philosophy, B.A., La Salle College; M.A., Catholic University

JUDITH C. STULL, Assistant Professor, Sociology, B.A., Northwestern University; Ph.D., Boston College
MARIA M. SUAREZ, Assistant Professor, Spanish, B.Litt. & Sc., Havana Institute; Diploma, Teachers College, Havana; Ph.D., University of Havana
BROTHER NICHOLAS SULLIVAN, F.S.C., Associate Professor, Earth Science, B.A., Catholic University; M.S., University of Pittsburgh; Ph.D., University of Notre Dame; D.Sc., University of Melbourne; University of Kyoto; Notre Dame College, Pakistan; University of San Carlos, Philippines
PETER J. SWEENEY, Associate Professor, Accounting, B.S., La Salle College; M.B.A., University of Pennsylvania
GEORGE R. SWOYER, Associate Professor, Marketing, B.S., La Salle College; M.B.A., University of Pennsylvania; L.H.D., Combs College of Music
JOSEPH L. TAGUE, Instructor, Marketing, B.S., Mt. St. Mary’s College; M.B.A., Temple University
RALPH TEKEL, Associate Professor, Chemistry, B.S., Brooklyn Polytechnic Institute; M.S., Ph.D., Purdue University
RALPH R. THORNTON, Assistant Professor, English, B.A., Washington College; M.A., Ph.D., University of Pennsylvania
EVELYN TROPPER, Assistant Professor, Mathematics, B.S., Mc Gill University; Ph.D., Polytechnical Institute of Brooklyn
JOSEPH R. TROXELL, Assistant Professor, Quantitative Analysis, B.S., Muhlenberg College; M.S., Ph.D., Rutgers University
WEI TSENG, Instructor, Mathematics, B.S., National Taiwan University; M.S., New York University
BROTHER LUKE TUPPENY, F.S.C., Assistant Professor, Theology, B.A., M.A., Catholic University; M.A., La Salle College; M.A., University of Notre Dame
REVEREND LEO M. VAN EVERBROECK, Assistant Professor, Theology, B.A., Immaculate Heart Seminary, Louvain; M.A., Villanova University; Diplome, Lumen Vitae Institute, Brussels
BROTHER ANTHONY WALLACE, F.S.C., Assistant Professor, Education, B.A., M.A., Catholic University; Ed.D., Duquesne University
TINA-KAREN WEINER, Assistant Cataloguer, B.F.A., Temple University; M.S.L.S., Drexel University
MINNA F. WEINSTEIN, Associate Professor, History, B.A., M.A., Ph.D., University of Maryland
PAUL W. WESTHEAD, Lecturer, English, A.B., St. Joseph’s College; M.A., Villanova University
*CHARLES WHITE, Assistant Professor, Music, Diploma, Staatsakademie fur Musik, Vienna; M.M., Temple University
JOHN CARROLL WHITE, Assistant Professor, Theology, B.A., M.A., Catholic University
*BROTHER PHILIP WHITMAN, F.S.C., Associate Professor, Accounting, B.S., Loyola College; M.A., La Salle College; M.B.A., University of Pennsylvania
SÁMUEL J. WILEY, Assistant Professor, Mathematics, B.S., St. Joseph’s College; M.A., Villanova University; Ph.D., Temple University
JEFFREY B. WILLENS, Instructor, English, B.A., M.A., Temple University
BROTHER RAYMOND WILSON, F.S.C., Professor, Chemistry, B.A., University of Scranton; M.S., University of Pennsylvania; Ph.D., Georgetown University
MELVIN F. WOODS, Associate Professor, Finance, B.A., St. Vincent’s College; M.A., Temple University

*On leave
**Index**

Academic Affairs Administration, 114
Academic Censure, 29
Academic Programs and Procedures, 23-30
Academic Requirements, 30
Academic Standing, 29
Acceptance Deposit, 14
Accounting, 102-104
Accreditation, 2
Activities, 10
Admission Requirements and Procedures, 12-16
Advanced Placement, 14
Advanced Standing, 15
Application for Admission, 13
Art, 55-57
Arts and Sciences, School of, 31-96
  Degree programs, 31
  Curriculum, 32-96
Athletics, 10
Attendance Policy, 27
Automobiles, 16
Bank Loan Plan, 21
Biology, 37-39
Board of Trustees, 113
Business Affairs Administration, 115
Business Administration,
  School of, 97-111
  Objectives, 97
  Curriculum, 98-111
  Preparation for Business Education, 97
Calendar, 128
Campus and Buildings, 6
CAOP Program, 26
Cars, 16
Change of Program, 23
Chemistry, 41-42
Chestnut Hill College, Courses at, 25
Classical Languages, 59-61
Classification of Students, 23
College Administration, 113-115
College Board Tests, 13
College Committees, 115
Committees of the Board, 113
Comparative Literature, 71-72
Competitive Scholarships, 19
Cooperative Program with Chestnut Hill College, 25
Costs, 17
Counseling, 7
Course selection, 16
Credit, off-campus courses, 29
Credit, semester hour of, 23
Criminal Justice, Preparation for
  Work in, 89
Cumulative Average, 28
Curriculum, 32, 98
Degree Programs, 31
Degree Requirements, 30
Dentistry, Preparation for, 31
Dining Services, 16
Dismissal, 29
Dispensary, 8
Distribution Requirements,
  Arts & Sciences, 34
  Business Administration, 98
Dual Majors, 24
Dramatics, 10
Early Acceptance, 14
Earth Science, 43-44
Economics, 45-47
Education, 47-48
Educational Opportunities Grants, 21
Elementary Education, 25
Employment, Student, 21
English, 48-55
Entrance Requirements, 12-13
Examinations, 27
Examinations, Make-up, 27
Expenses, 17-18
Expenses, Residence Hall, 17
Faculty, 116-124
Fee, Pre-College Counseling, 17
Finance, 105-106
Financial Aid, Scholarships and, 19-22
Fine Arts, 55-59
Foreign Languages, 59-71
Foreign Study, 26
Free Electives, 34
French, 62-63
Freshman Forum, 8
General Administration, Courses, 101-102
General Education Requirements, 34, 98
German, 64-65
Grades, 27
Graduation Fee, 18
Greek, 59-60
Health Services, 8
History, 72-75
History of the College, 5
Honor List, Deans’, 29
Honors, 30
Honors Program, 24
Index, Scholarship, 28
Interdisciplinary Programs, 24
Italian, 66-67
Jobs, 8, 21
Language Requirements for
  Admission, 12
Languages, 59-71
   Classical, 59-61
   Modern, 62
La Salle in Europe Program, 26
Late Registration, 23
Latin, 60-61
Law Enforcement Education Program, 20
Law, Preparation for, 32
Library, 6
Linguistics, 51
Loan Funds, 21
Management, 106-107
Marketing, 108-109
Mathematics, 75-78
Medicine, Preparation for, 31
Military Science, 78
Music, 57-59
National Defense Student Loan, 21
National Merit Scholarships, 19
Nurses' Cooperative Program, 26

Objectives of the College, 11
Officers of the Corporation, 113
Pass/Fail Option, 24
Payment, Method of, 18
Penalty Fees, 23
Personnel and Labor Relations, 109-110
Philosophy, 79-81
Philosophy of the College, 11
Physics, 82-84
Placement, Advanced, 14
Placement Bureau, 8
Political Science, 84-86
Pre-College Counseling Program, 7-8, 16
Principals' Scholarships, 19
Probation, 29
Program of Studies, 23
Psychology, 86-89

Public Affairs Administration, 115
Quantitative Analysis, 110-111
Refunds, 18
Registration, 23
Requirements, Entrance, 12-13
Reserve Officers' Training Program, 27
Resident Students, 15-16
ROTC Scholarships, 20
Russian, 67-68
Scholarships and Financial Assistance, 19-22
School of Arts and Sciences, 31-96
School of Business Administration, 97-111
Social Work, Preparation for, 89
Sociology, 89-91
Spanish, 69-71
Special Options, 111
Special Students, 24
Speech and Drama, 92
Sports, 10
Student Affairs Administration, 114
Student Reports, 28
Summer Sessions, 26
Suspension, 29

Teaching, Preparation for, 32
Telephone Calls for Residents, 16
Theology, 92-96
Transcripts, 30
Transfer of Credit, 15
Transfer Students, 15
Tuition, 17

Urban Studies and Community Services Center, 26
Withdrawals, 30
La Salle College Calendar
1972-1973

FALL SEMESTER

Aug. 29-31 On-campus registration—9:00 A.M. to noon
Sept. 6 Beginning of classes. Opening Mass—12:15 P.M.
Sept. 13 Last day for change of roster and late registration
Oct. 22 Academic Convocation
Oct. 30 Mid-semester holiday
Nov. 6 Mid-semester grades due
Nov. 8 Last day for withdrawal from courses
Nov. 23-24 Thanksgiving holidays
Dec. 13 Classes end for fall semester
Dec. 14-21 Final Examinations
Dec. 21 Christmas recess begins at 4:30 P.M.

SPRING SEMESTER

Jan. 9-11 On-campus registration
Jan. 15 Beginning of classes
Jan. 19 Last day for change of roster or removal of I grades
Mar. 5-9 Mid-semester holiday
Mar. 12 Classes resume. Mid-semester grades due.
Mar. 14 Last day for withdrawal from courses
Apr. 19 Easter holiday begins at 4:30 P.M.
Apr. 24 Classes resume at 8:30 A.M.
Apr. 30 Classes end for spring semester
May 2-9 Final examinations
May 16 Faculty-Senior Reception
May 17 Baccalaureate Mass. Commencement at 7:30 P.M.