1-1968

Ursinus College Catalogue for the Ninety-ninth Academic Year, 1968-1969

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Ursinus College is located in Collegeville, a borough in Montgomery County, Pennsylvania, twenty-five miles northwest of Philadelphia. U. S. Route 422 and Pennsylvania State Highway 29 intersect at Collegeville. It may be reached from Philadelphia by means of Reading or Philadelphia and Western (69th Street Terminal) railroads to Norristown, Pennsylvania, from where buses leave for Collegeville.

Vol. LXVI

No. 1

URSINUS COLLEGE BULLETIN

CATALOG NUMBER

JANUARY 1968

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THE
URSINUS
COLLEGE
BULLETIN
1968-1969

CATALOG NUMBER
For the
NINETY-NINTH
ACADEMIC YEAR
1968-1969

COLLEGEVILLE
PENNSYLVANIA
19426

JANUARY 1968
CORRESPONDENCE WITH UR SINUS COL LEGE

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

GENERAL COLLEGE MATTERS
The President

DEVELOPMENT
Assistant to the President

PUBLICITY
The Vice President

ACADEMIC STANDING OF STUDENTS AND REQUESTS FOR TRANSCRIPTS
The Dean

ADMISSIONS
The Dean of Admissions

FINANCIAL AID, STUDENT EMPLOYMENT
The Financial Aid Officer

EVENING SCHOOL, SUMMER SCHOOL
The Director of the Evening School, Summer School

PAYMENT OF BILLS
The Treasurer’s Office

STUDENT EMPLOYMENT
The Director of Student Employment

PLACEMENT OF GRADUATES
The Director of Placement

SOCIAL REGULATIONS AND DORMITORIES FOR MEN
The Dean of Men

SOCIAL REGULATIONS AND DORMITORIES FOR WOMEN
The Dean of Women

ALUMNI AFFAIRS
The Alumni Secretary

The Post Office address is Collegeville, Pennsylvania, 19426

The College telephone number is 489-4111 (Area Code 215)

Visitors to the College are welcome. Student guides are available when the College is in session. The offices of the College are open Monday through Friday 9-12 and 1-5 and on Saturdays 9-12. The Office of Admissions will be closed on Saturdays from June 15 to Labor Day. Applicants for admission are expected to write for an appointment.

Information regarding public transportation and highway routes to Collegeville will be found elsewhere in the Catalog.
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The College in Brief

URSINUS COLLEGE is an independent, four-year liberal arts college with a tradition of academic excellence reaching back ninety-nine years. It has about one thousand students, sixty per cent of whom are men. About nine hundred students are residents in College dormitories. The others live at home and commute from surrounding areas.

Majors are offered in fourteen departments, ranging from the classics to sciences. Under a curricular program called The Ursinus Plan, students are given the opportunity to attain academic breadth and still concentrate upon a major.

Some seventy faculty members teach at the College. Of these, thirty-seven hold doctoral degrees. Faculty members, many of whom engage in research, are committed first to teaching. Learning takes place in a friendly but challenging environment.

The campus of some 115 acres lies beyond the metropolitan area and is less than an hour from central Philadelphia by high-speed expressway. In the past decade, four major building projects have been completed. A new dormitory, to accommodate 252 men, was finished in early 1968, and five other buildings are planned for the next several years.

Seven out of ten students of the College enter graduate schools. Graduates are leaders in civic and cultural life, and they are found in key positions in industry and the professions. Wherever they are, they bring a special attitude toward life, at once critical and creative, that marks them as Ursinus men and women.
HOW URSINUS BEGAN

The beginning of educational work on what is now the campus of Ursinus College dates back to the construction of a primitive schoolhouse built of logs probably two centuries ago. The ancient building was razed in 1832 when Todd's School was built in the town of Perkiomen Bridge, now Collegeville. In 1848 Freeland Seminary was opened on a tract adjacent to Todd's School. The new school occupied the buildings now known as Freeland Hall and Stine Hall. During the following two decades many hundreds of young men were educated here.

In 1867 a group of men, members of the German Reformed Church, actuated by a desire to serve the interests of higher education and of evangelical Christian religion, laid plans to establish a college where, to quote their words, young men could be “liberally educated under the benign influence of Christianity.” They chose as the name of the College that of the distinguished sixteenth-century scholar and reformer, Zacharias Ursinus of the University of Heidelberg. In 1869 the charter was granted by the Legislature of Pennsylvania. The buildings of Freeland Seminary were bought, and instruction was begun on September 6, 1870. Women were admitted to the College for the first time in 1881.

Coincident with the founding of the College was the establishment of a preparatory department as a successor to Freeland Seminary. The preparatory school was called Ursinus Academy and was operated as such until 1910, when it was discontinued.

COLLEGE PRINCIPLES

Ursinus College is a Christian, coeducational, liberal arts college which seeks to help the student to understand and to emulate excellence in scholarship and in conduct. Although in recent decades the College has extended its work to include the preparation of men and women for a variety of professions, the College continues to emphasize the fact that however varied and specialized the changing needs of the day, the fundamental needs of man remain constant. Each student, whatever his field of specialization, is required to study those subjects which are the core of our cultural heritage.

Ursinus recognizes its duty to preserve the cultural and spiritual tradition which this generation has inherited and to transmit a sense of that duty to succeeding generations.

The College seeks to help the students to develop those qualities which will fit them for the extraordinary responsibilities of educated men and women. The purposes of the College are achieved through its curriculum, through the many extra-curricular activities, and through the pattern of campus life.
The whole educational program serves to cultivate a particular set of qualities in the students:

(1) An active intellectual curiosity and a desire to learn
(2) A knowledge of the techniques of sound scholarship
(3) An ability to think logically and critically
(4) A mature understanding of one’s self, of others, and of society
(5) An insight into our natural environment, and a knowledge of the laws governing it
(6) An appreciation of our cultural inheritance
(7) A sense of responsibility
(8) Attitudes consonant with the Christian ideal of morality and service

CULTURAL ENVIRONMENT

Students at Ursinus have all the advantages of living in the country, and at the same time they are close enough to New York and Philadelphia to have access to such additional opportunities for culture as the symphony orchestra, grand opera, legitimate theatres, museums, lectures, and exhibits.

Ursinus is located in the heart of a region which is rich in historical tradition. In Colonial days this region was the center of the cultural and political development of America.

ACCREDITATION

Ursinus is a member of the Association of American Colleges and is on the approved list of the Middle States Association of Colleges and Secondary Schools, the American Association of University Women, and the American Chemical Society.
ROOMS AND MEALS

Ursinus College is a community and pleasant community life is emphasized. Students who are not living in their own homes are required to room at the College and to take their meals in the College dining rooms.

Each resident student supplies his own towels, pillow, two pairs of sheets for a single bed, mattress protector, a pair of pillow cases (38" x 45"), a pair of blankets, and a bedspread. Linen rental service is available.

First-year students, except those whose presence is needed for service, are required to vacate their rooms immediately following the second-term examinations.

PUBLIC WORSHIP

All resident students and all day students whose homes are within a mile of the campus are required to attend assembly on certain designated days of each week. Students may not be absent from assembly more than two times in a semester without valid excuse. Students are encouraged to attend services on Sunday in the church of their own choice.
MEDICAL SERVICE

The Comprehensive Fee paid by resident students entitles them to ordinary medical attention. The College Physician may be consulted in his office on the campus during office hours. He will regularly visit patients in the infirmaries. During the regular College sessions the resident nurses are on duty twenty-four hours a day. They care for the sick under the direction of the College Physician.

The College will not pay bills that students contract with hospitals or with physicians or nurses not on the staff of the College. The College reserves the right to enforce quarantine and to engage the services of special attendants if necessary, but will not be responsible for the compensation of extra physicians, nurses, or attendants, which compensation must be provided by the student or his parent or guardian.

ACCIDENT AND HEALTH INSURANCE

A Student accident and health insurance program is available. Details are available in the Office of the Treasurer. See under Financial Information.
ATHLETICS

Ursinus recognizes the physical, social, and moral benefit derived from athletic activity and accordingly offers a well-balanced sports program open to all. Intercollegiate competition is encouraged in football, basketball (varsity and junior varsity), soccer, wrestling, cross country, baseball, track and tennis. In addition to this intercollegiate program, intramural games are played. Intramural athletics for men include touch football, basketball, volleyball, wrestling, a free-throw contest, softball, track, tennis, and inter-fraternity competition.

For women students, the College supports inter-collegiate competition in hockey (varsity, junior varsity, third, and fourth teams), basketball (varsity, junior varsity, third, and fourth teams), softball, tennis (varsity and junior varsity), swimming (varsity and junior varsity), lacrosse (varsity and junior varsity), and badminton (varsity and junior varsity). The intramural program provides recreational opportunities in hockey, basketball, tennis, softball, and inter-dorm competition in volleyball and table tennis.

ORGANIZATIONS

Students find many opportunities for education and enjoyment through a large number of organizations. All are approved by the Faculty and are supervised by the Committee on Student Activities or the Dean of Men and Dean of Women. In addition, members of the Faculty serve these groups as advisers. Student life on campus is governed by the Ursinus Student Government Association under the direction of the Dean of Men and the Dean of Women. Members of the student governing organization are elected by the student body.

Among the most active organizations is the Young Men's and Young Women's Christian Association. Numerous religious and social activities are planned and sponsored by this group in collaboration with other campus groups. Allied religious and service groups are the Chi Alpha Society for those students planning to enter the ministry or other religious work, and the Canterbury Club.

Other organizations stimulate the interest of students in particular areas of study or in future occupations. Among them are the Brownback-Anders Pre-Medical Society, the Beardwood Chemical Society, the English Club, the Spanish Club, the Pre-Legal Society, the Student National
and Pennsylvania State Education Associations, and the Economics Club. Interest in athletics and campus spirit is fostered by the Women's Athletic Association, the Varsity Club, and the Spirit Committee. A chapter of the Honorary Social Studies Society, Pi Gamma Mu, has been established. Psi Chi, the National Honor Society in psychology, and an Affiliate of the American Psychological Association and the Association of College Honor Societies, honors psychology majors whose record is outstanding. Outstanding junior men may be elected to Cub and Key and junior women to the Whitians.

A large and varied program of dramatics is sponsored and carried out by the Curtain Club, which presents two major productions a year in addition to various group productions. There is at Ursinus a chapter of Alphi Psi Omega, a national honorary dramatics fraternity.

The Debating Club each year holds intercollegiate and intramural debates on topics of national interest. Members may qualify for election to Tau Kappa Alpha, the national honorary debating fraternity.

Music plays a large part in the life at Ursinus. Choral music is represented by the Meistersingers, who offer concerts on and off campus, including a one-week tour in the spring; the Messiah Oratorio Chorus whose presentation of Handel's Messiah during the Christmas season is one of the outstanding musical events of the year. Instrumental music is offered by the Concert and Marching Bands. There is a chapter of Pi Nu Epsilon, the national honorary musical fraternity.

The Agency of Ursinus College is a student-run and student-supported organization created for the purpose of bringing professional entertainment to the College.

There are eleven local social organizations on the Ursinus campus. The fraternities are Sigma Rho Lambda, Zeta Chi, Alpha Phi Epsilon, Delta Mu Sigma, Beta Sigma Lambda, Delta Pi Sigma, and Alpha Phi Omega, the national service fraternity. The sororities are Omega Chi, Alpha Sigma Nu, Kappa Delta Kappa, Phi Alpha Psi, and Tau Sigma Gamma.

PUBLICATIONS AND RADIO

The Ursinus Weekly is the Ursinus newspaper. It is managed by a Board of Control consisting of student and faculty representatives and is edited and written entirely by the students. The Editor-in-Chief, the associate editors, and the business manager are elected by the board on the basis of merit and the staff is selected by the editors on the same basis. The paper is of interest to students and alumni as a record of life at Ursinus.
THE LANTERN serves as an outlet for those interested in creative writing and art. It is written and edited by an all-student staff under the direction of a member of the Faculty Committee on Student Publications. It is published three times a year.

THE RUBY, the Ursinus yearbook, is published by the Senior Class each year. It is a volume presenting an intimate pictorial account of the year’s activities, not only of the Class, but of the entire College.

FOCUS, an all-student publication, is a magazine which expresses the political opinions and ideas of students and faculty.

THE URSINUS BULLETIN, official publication of the College, appears eight times a year. In addition to the Catalogue you are reading, it takes the form of three issues of THE ALUMNI JOURNAL, three issues of THE NEWSLETTER, and one issue of the REPORTS OF OFFICERS.

WRUC, the campus radio station, presents each day to Ursinus students a varied agenda of music, from classical to rock, and campus and world news. Special sports events and notable campus occurrences are broadcast live at certain times during the year. The station is completely student-operated.
The Campus Setting

Student life at Ursinus takes place in a setting where the new blends with the old, the practical with the picturesque.

Wismer Hall, completed in 1965, is one of the chief points of activity on campus. It contains the student dining hall, a lounge, lecture hall and little theatre, language laboratory, and a number of classrooms and seminar rooms. The building led in 1966 to a citation for excellence from the Pennsylvania Society of the American Institute of Architects. It is named for the late Ralph F. Wismer, '05, former Treasurer of the College and member of the Board of Directors.

Bomberger Memorial Hall, built in 1891, provides classrooms for many courses in the humanities, languages and social sciences. It also houses the College chapel, study and recreation areas, and administrative offices. This Romanesque hall, made of Pennsylvania blue marble, is named for the first President of Ursinus, J. H. A. Bomberger. The building was made possible by the benefactions of Robert Patterson.

Pfaehler Hall of Science, built in 1932, houses classrooms and laboratories for work in biology, chemistry, physics, mathematics, psychology, geology. Found here are the Levi Jay Hammond Laboratory of Comparative Anatomy, the W. Wayne Babcock Laboratory of General Biology, the Anna Heinly Schellhamer Laboratory, the Schellhamer Laboratory. The building is equipped with the Elihu Thomson Memorial Telescope for astronomical observation. Also in Pfaehler Hall are the offices of the President and of the Evening School. The science building is named in honor of Dr. George E. Pfaehler, famed radiologist.

The Alumni Memorial Library has more than 76,000 volumes, not counting government documents and pamphlets. It receives more than 450 periodicals and newspapers. The location of Ursinus College in the Philadelphia area makes available for special studies the considerable bibliographical holding of neighboring libraries through personal consultation or inter-library loan.

In 1964, the full set of Early American Imprints in microprint augmented Library holdings by the 42,000 items published in America up to 1800. These imprints, augmented by several recent and colonial newspapers on microfilm, constitute the nucleus of the Micro-form Section of the Library. In all, the Micro-form Section consists of 50,000 holdings.

Much of Ursinus's campus is given over to athletics and physical education. There is Patterson Field, named for the College's first benefactor, Robert Patterson, where varsity football is played and track and field meets are held. There is Price Field, made up of the soccer field, the baseball diamond, several softball diamonds, and football practice ground. The field is named for Dr. John Price, '05, one of the great athletes in Ursinus history. There are the Tennis Courts, located at the rear of Curtis Dormitory. And there is the Effie Bryant Evans Hockey Field at the east end of campus near Stauffer Hall.
Two structures house facilities for the physical education program. THOMPSON-GAY GYMNASIUM, built in 1927, doubles as a playing area and theatre, with completely equipped stage. Portable seats are used for theatrical performances. The building is a memorial to Robert W. Thompson, '12, and George H. Gay, '13, noted Ursinus athletes, both of whom died in their senior year at the College. THE COLLEGE GYMNASIUM, erected in 1947, located near Thompson-Gay Gym, seats 800 and is the scene of Ursinus's intercollegiate basketball games.

One of the busiest buildings on campus is the COLLEGE STORE AND SNACK CENTER, opposite Wismer Hall. The Center, open from early in the morning to late at night, is the crossroad for student social life. Also in the building is the COLLEGE POST OFFICE, maintained on campus for the convenience of students.

Other structures on campus include SUPERHOUSE, a residence on Main Street opposite the campus, bequeathed to the College by the late Henry W. Super, D.D., LL.D., Vice-President and Professor of Mathematics, 1870-1891, and President, 1892-1893; SPRANKLE HALL, on the east campus fronting Fifth Avenue, the infirmary; THE EGER GATEWAY, erected through the generosity of George P. Eger, of Reading, Pennsylvania, at the entrance of the walk leading from Main Street to Freeland Hall; and THE POWER PLANT, a strikingly modern building put into operation in 1963 which is equipped to supply the College's needs even after the construction of the many buildings planned for the next several years.
DORMITORIES FOR MEN

Freeland Hall, erected in 1848, is the original building of Freeland Seminary. Derr Hall and Stine Hall are additions to Freeland Hall. The buildings are of stone, four stories in height with a fifth story of dormer rooms. Laundry facilities for men are available in the basement of Derr Hall. The upper floors are for the residence of men students. The rooms are designed for one or two occupants, a number being arranged en suite.

The Brodbeck and Curtis Dormitories for Men are buildings in English Colonial style. Each building has four floors. They bear the names of esteemed benefactors of the College, Andrew R. Brodbeck and Cyrus H. K. Curtis.

Wilkinson Hall, which connects Brodbeck and Curtis Dormitories, provides a lounge for men as well as additional rooms for men.

Maples, 512 Main Street; Keigwin Hall, 513 Main Street; Fetterolf House, 554 Main Street; Zwingli Hall, 620 Main Street; Omwake Hall, 701 Main Street; and Isenberg Hall, 801 Main Street are all residence halls for men.

Fircroft, 930 Main Street, a residence for men students, was presented to the College by Miss Sara E. Ermold as a memorial to her mother, Ella N. Ermold.

South Hall, a residence for men, is located on Sixth Avenue.

New Men's Dormitory Complex, located on the north end of the campus, was virtually completed by the end of 1967. It will house 252 men.
DORMITORIES FOR WOMEN

Paisley Hall, Stauffer Hall and Beardwood Hall are three dormitories for women. The buildings house 244 women and are located on the east campus behind the Alumni Memorial Library.

Hobson House is located at Sixth Avenue and Main Street. It is used as a residence for twenty-four women.

Shreiner Hall, fronting on Main Street and facing the College campus, is a residence hall for thirty-two women.

Duryea Hall, 612 Main Street, is a residence hall for fifteen women.

Clamer Hall, Main Street, the gift of Dr. Guilliam H. Clamer, is a residence hall for twenty-five women.

942 Main Street and 944 Main Street are residence halls for fifteen and sixteen women respectively.

Olevian Hall, 640 Main Street, is a residence hall for ten women.

Schaff Hall, 646 Main Street, is a residence hall for ten women.

Todd Hall, 724 Main Street, is a residence hall for seventeen women.
THE FIRST step in seeking admission to Ursinus College is to file an application. A form for this purpose may be obtained from the Office of Admissions. After the completed form has been returned to the College, accompanied by the fifteen-dollar application fee, the Dean of Admissions will request the applicant's school principal or headmaster to send an official transcript of the school record. At the same time, inquiry is made concerning the character of the candidate and his ability to do college work.

All applicants must arrange for a personal interview on campus, unless, of course, the distance makes such a visit impracticable. This requirement must be completed before the application is presented to the Committee on Admissions.

Applications for financial aid should be filed at the time the candidate applies for admission. Forms are available through the Office of Admissions.

It is the responsibility of the candidate to make arrangements to take the Scholastic Aptitude Tests and the Scholastic Achievement Tests of the College Entrance Examination Board and to have the test results sent to the Dean of Admissions.
TESTS
CANDIDATES for admission to the Freshman Class are required to take the Scholastic Aptitude Tests and three Achievement Tests of the College Entrance Examination Board. Foreign students must, in addition, take the TOEFL test in English. It is recommended that applicants take the December Scholastic Aptitude Tests and three Achievement Tests in January of the senior year. One of the achievement tests must be in English Composition, and one must be in the foreign language which the candidate is presenting for admission purposes. A third achievement test should be in mathematics or science for science majors and in history or social studies for non-science majors. Full information concerning the dates of administering these tests can be obtained by writing directly to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

PREPARATION
A CANDIDATE for admission to the Freshman Class must be a graduate of an approved secondary school.

If the applicant is a graduate of a four-year high school he should offer for admission at least fifteen units which are to be distributed as follows:

**BASIC ACADEMIC CREDITS (9 Units)**
- English, *Four years, Earning Three Units*
- Elementary Algebra, *One Unit*
- Plane Geometry, *One Unit*
- Science, *One Unit*
- Social Studies, *One Unit*
- Foreign Language, *Two Units in One Language*

**ADDITIONAL ACADEMIC CREDITS (At least 2½ Units)**
- Advanced Mathematics
- Solid Geometry
- Plane Trigonometry
- Science
- Social Studies
- Foreign Language

**ELECTIVES (Maximum 3½ Units)**
- *Not more than one unit will be granted for any single elective.*
- Bookkeeping
- Drawing (Mechanical, Prepared Course)
- Geology
- Stenography
- Junior Business Training
- Music and Art (History or Appreciation)
- Commercial Law
- Commercial Geography
ADMISSION

If the candidate is a graduate of a three-year high school, he should offer at least twelve units, which should include the basic credits above. Not more than one unit may be presented from the group designated as electives.

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

EARLY DECISION
Outstanding Juniors may apply for admission in the late spring or during the summer preceding the senior year. The College will then write for the high school record, and the applicant should have junior year Scholastic Aptitude Test scores sent and arrange for an interview, preferably prior to October 1. The student should also take achievement tests of the College Board in the Spring or Summer before the beginning of the senior year. Early decisions will be made and students notified in the late summer and early fall.

ENGINEERING PROGRAM
Arrangements have been made with the Engineering Schools of the University of Pennsylvania to which a student may transfer after completing three years of prescribed work toward the B.A. degree at Ursinus College.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The engineering school will grant the engineering degree on satisfactory completion of the fifth year. For the outline of the program see under Departmental Requirements.

The candidate for the Engineering program must present 3½ years of entrance credit in Mathematics.

His background in foreign language must be such that he will be capable of entering the second year of language in college. If he is not so prepared he must make up the deficiency in foreign language in summer school.

PLACEMENT IN FOREIGN LANGUAGES
If an entering student wishes to study in college the same language he studied in high school, the following conditions apply:

1. If a student has taken two or three years of a foreign language in high school and achieves a minimum College Board score of 450 in that language, he must enroll in the intermediate level of that language in college. If he scores below 450, he may take the intermediate course or he may elect the elementary course and take it without credit toward graduation. If he is unable to master the work at the inter-
mediate level, he may drop back to the elementary level, but he will receive no credit for graduation for successful work in the elementary course.

2. If a student has studied a language for two, three or four years in high school and achieves a minimum College Board score of 550 in the language, he must take an advanced language course beyond the intermediate level. If he is unable to do the work of the advanced language course, he may drop back to the intermediate level, in which case the successful completion of the intermediate course would fulfill the college language requirement and give credit toward graduation.

3. In the case of a late application or of the unavoidable absence of College Board Achievement test results, placement will be determined by the number of years a student studied a language in high school and by the number of years that may have elapsed since the student last studied a language in high school. In such a case, the language departments will give a proficiency test. The conditions stated in paragraph one governing credit toward graduation apply in these cases.

ADVANCED PLACEMENT
Students who wish to be considered for advanced courses upon admission may submit the results of the Advanced Placement Examinations as given by the College Board. If the scores are satisfactory, the student may be advanced beyond the basic course, but no credit will be given toward the degree. Certain courses offer no advanced placement; therefore it is suggested that a candidate consult the Dean of Admissions if any question arises.

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

TRANSFER STUDENTS
To enter the Sophomore or Junior Class at Ursinus College, an applicant must support his application by requesting each institution he has attended subsequent to graduation from secondary school to send to the Dean of Admissions a transcript of his record at the institution of higher learning and a letter from the Dean of Men or Women indicating that the applicant is entitled to honorable dismissal insofar as character and personality are concerned. It will be helpful if the candidate will
send a catalogue of the college he has been attending, marked to indicate the course he has taken. No advanced standing will be granted to a transfer student unless his previous college record is free of failures and conditions. There will be no credit for grades below C.

*Not more than sixty hours of work taken elsewhere will be credited to students transferring to Ursinus College.*

**PART-TIME STUDENTS**

Non-Resident students who are candidates for a degree and who wish to pursue fewer than twelve hours of work may be classified as part-time students upon the written approval of the Dean of the College.

**NOTIFICATION OF ADMISSION**

When a candidate for admission is notified of his acceptance by the College, he must make an advance payment of one hundred dollars in accordance with the provisions of the letter of acceptance. This payment is credited on his bill for the first term. If he fails to complete his matriculation, the payment is forfeited.

**THE SUMMER SCHOOL**

The Curriculum of the summer school is announced in the Spring, and information concerning course offerings is released after April 15. Courses will be offered over a period of 12 weeks. A student carries only one course at a time, but may enroll for a full program. The plan permits the completion of a three semester-hour course in three weeks, two three semester-hour courses in six weeks, four three semester-hour courses in four weeks and two four semester-hour courses in eight weeks. It is possible to carry two years of work in a language in twelve weeks for twelve semester credits.

Ursinus College Summer School (day or evening) is open to candidates who may be classified in the categories below upon approval of the administrative officer in charge.

1. **College Graduate (two-year and four-year)**
2. **Degree Candidates (Bachelor and Associate)**

From any Institution of higher education, the applicants must have written permission from their respective institutions indicating that they will be given transfer credit for successful work in specific courses.

3. **Evening School** students at Ursinus or elsewhere, with a high school diploma and with a minimum of 15 semester hours of work successfully completed. (equivalent of 70 average)

Applications of those whose qualifications do not fit the above categories must be acted upon by the Committee on Admissions.
Ursinus College Summer School (day or evening) is not open to the following:
1. Students who were not graduated from approved secondary schools.
2. Students who have been dismissed or suspended from any academic institution during the previous academic year.

Admission to the Summer School does not carry with it an assurance of transfer to degree standing at Ursinus College.

THE EVENING SCHOOL
The Evening School is organized to make college work available to men and women employed in business, in industry and teaching, and to others who may be interested. The program emphasizes courses in business administration and in fields closely allied to business administration, such as economics, political science, history, English composition, public speaking and certain foreign languages.

For information, catalogue, and application forms, address The Director, Evening School, Ursinus College, Collegeville, Pa.

TUITION EXCHANGE PROGRAM
Ursinus College is a member of the Tuition Exchange. Requests of children of faculty members of other member institutions for tuition remission will be considered upon application. Because of the necessity for maintaining a balance of imports and exports, it may not always be possible to honor such requests. Applications for tuition remission should be made through the liaison officer of the institution with which the applicant's parent is associated. Those who receive aid through the Tuition Exchange Program are not eligible for additional grants.

CAREER OPPORTUNITIES
Ursinus is a college of liberal arts and sciences and emphasizes a broad, general education regardless of the career for which a student plans to prepare. At the same time, it is possible at Ursinus to prepare for specific careers in the fields listed below. A placement service maintained by the College helps the student to find a position in the field of his choice.

Business. Graduates in Economics and other departments are employed by many types of industrial concerns, banking institutions, public utilities, transportation companies, department stores, chain stores, etc. By electing languages, students majoring in business may prepare for the growing opportunities in world trade.

Chemical Research: Industrial Chemistry. The College provides opportunities for students desiring to major in Chemistry with a view to devoting their lives to some type of chemical research. Graduates find employment in the chemical industry doing pioneer work in the field of chemical research and development.
Dentistry. The Council on Dental Education of the American Dental Association fixes as the minimum basis for admission to an approved dental school the successful completion of two full years of academic work in an accredited college of liberal arts and science. This college work must include courses in English, biology, physics, inorganic and organic chemistry.

Educational Administration. Basic courses in Education are provided which are prerequisite to the professional courses in Educational Administration offered in graduate schools of education of leading universities.

Engineering. Students who wish to study Chemical, Civil, Electrical, Mechanical or Metallurgical Engineering may avail themselves of a program which is being offered at Ursinus College in cooperation with engineering schools. A student at Ursinus College may transfer to an engineering school after completing three years of prescribed work toward the B.A. degree at Ursinus.

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

Foreign Service. The American foreign service presents attractive opportunities to a limited number of young people who are willing to prepare themselves adequately for service abroad. The history and social science courses, together with offerings available in the modern languages, provide preparation for the examinations required of applicants for positions in foreign service. Upon graduation students are urged to pursue additional work at a recognized graduate school.

Graduate Study. One purpose of the curriculum of the modern liberal arts college is to prepare students for advanced study in various fields of knowledge. Preliminary study is done by the student at the undergraduate level in his chosen major field. Those intending to enter graduate schools should have a thorough grounding in their chosen field. As a reading knowledge of French and German is essential for most higher degrees, this knowledge should be acquired in the undergraduate school.

Health and Physical Education. It is possible to specialize in health and physical education and at the same time obtain a general cultural education. Health and physical education graduates meet the requirements for certification to teach in this field in Pennsylvania and other states.
Journalism. A student interested in journalism should enroll in the departments of history, political science, or English and elect widely in other fields. A year at a professional school of journalism is recommended.

Law. As a general rule leading law schools require a baccalaureate degree as one of the conditions for acceptance of candidates. A broad, cultural education is considered the best preparation for legal study. A major in such departments as history, psychology, or political science is recommended.

Medicine. Concentration in biology or chemistry is recommended in order to prepare students who are interested in the various aspects of medicine. Preparation for schools of osteopathy and of veterinary medicine, as well as for the regular medical schools, is provided.

Music. Although a considerable number of courses in music are available at Ursinus, no major in music is offered. Those who wish to follow music as a career should plan to attend graduate school after completing their work at Ursinus.

Nursing. Students who plan to enter the profession of nursing should register for courses in biology, chemistry, and liberal arts in order to qualify for consideration by schools of nursing. Ursinus does not give a degree in nursing but recommends transfer, after two years, to a university school of nursing.

Physical Research. A program of concentration in physics and mathematics is offered to students interested in physics as a career.

Psychology. Undergraduate work in psychology is designed for those who seek admission to graduate schools or who wish to enter personnel work in industry. Undergraduate study in psychology is of assistance in the fields of teaching, guidance, law, clinical psychology, personnel and social work, nursing, and preparation for medicine.

Teaching. Work in education, including practice teaching, as required by many of the state departments of education, is offered to those who plan a career in education. Teacher preparation is limited to the secondary school field. Students follow curricula under the guidance of advisers.

Church Vocations. Most leading theological schools have as a requirement for consideration for admission a degree in liberal arts. Students who are preparing for church vocations should plan a broad course of study which will include history, languages, literature, religion, and philosophy.
PLACEMENT BUREAU

Ursinus College conducts a placement bureau to assist students and graduates in finding positions for which they qualify. Its function is to serve as a point of contact for seniors and alumni with educational institutions, business, and industry. Detailed personal and scholastic records of seniors and alumni are compiled and are available along with a photograph, for all prospective employers.

Alumni Placement — The Placement Bureau acts as a clearing house for the placement of alumni seeking employment or new positions. Alumni are encouraged to place their names on the list of available candidates. A special electronic data placement service is available through the College's membership in the American Placement Council.

Persons seeking placement in the educational field or in business or industry should address communications to the Director of Placement, Ursinus College, Collegeville, Pa.

THE COLLEGE YEAR

The College year at present consists of two semesters of sixteen weeks each and a Summer session of twelve weeks. Students are admitted to the college at the beginning of either semester or at the beginning of the Summer session. Students who wish to accelerate their college program may attend the Summer session in addition to the Fall and Spring semesters. The Summer session is available to all students who wish to take advantage of it.
FINANCIAL INFORMATION

Tuition, Board, Fees

STUDENT CHARGES PER YEAR:

<table>
<thead>
<tr>
<th>Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$1500</td>
</tr>
<tr>
<td>Room and Board</td>
<td>$1000</td>
</tr>
<tr>
<td>Activities fee</td>
<td>$20</td>
</tr>
</tbody>
</table>

PAYMENTS ARE TO BE MADE AS FOLLOWS:

New Students
- Advance Payment — as requested       $100
- Breakage Deposit — As indicated on bill      $10

Old Students
- Advance Payment — July 15            $100

All Students
- September — One-half annual charges, less credit for Advance Payment.
- January — One-half annual charges.

Charges quoted are made on an annual basis. Billings are presented semi-annually and are due for payment in September and January, no later than the date indicated on the billing. A $10 fee is charged for late payment.

When the student is a recipient of an Ursinus College scholarship award, credit will be applied in the amount of one-half the value of the annual award to each semester bill. The College has no plan for installment payments.

For those who prefer to pay tuition in monthly installments, the College offers special arrangements made with the Girard Trust Bank of Philadelphia, and/or the Insured Tuition Payment Plan of Boston. These arrangements should be made early enough to assure payment of bills no later than the date indicated on the billing.

EXPLANATION OF CHARGES

APPLICATION Fee. A fee of $15 is paid by the candidate at the time he files his application. This fee is not refundable and is not applied toward the student's bill.

SPECIAL AND PART-TIME STUDENTS are charged at the rate of $52.50 per semester hour.

Checks should be made payable to URSINUS COLLEGE.
ADVANCE PAYMENT. (a) Upon his acceptance by the College an applicant must make an advance payment of $100. This payment is credited on his bill for the first term. If he fails to complete his matriculation, this payment is forfeited. (b) All regularly enrolled students must make an advance payment of $100 at such time as may be designated by the College. This payment is forfeited if the student fails to complete his registration.

Fee for Tuition covers classroom instruction, use of libraries, gymnasium, and the infirmary; ordinary medical attention; care by the resident nurse. Room and Board charges cover lodging for school year, exclusive of Thanksgiving, Christmas and Spring recesses. The variation in fee depends upon the location of the room.

The College reserves the right to make reasonable adjustments in the comprehensive fee at the beginning of any term to cover possible unforeseen costs.

ACTIVITIES Fee covers subscription to the Ursinus Weekly, intercollegiate debating, the Christian Associations, the Ursinus College Forum, admission without charge to all athletic contests at the College and to College dances.

STUDENTS' MEDICAL INSURANCE PLAN. A twelve-month coverage for accident, sickness, and health is available at nominal cost. Further information is available in the Office of the Treasurer.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION. An instructional fee of $68 is charged for attendance at the Pre-Session Physical Education Camp. The College provides no facilities for Room and Board.

ROOM DRAWING. A previously enrolled student must pay $10 in order to qualify for drawing a room. Credit for this amount will be applied to the Room and Board charge for the following term.

PRIVATE MUSICAL INSTRUCTION. A fee of $150 is charged for any students wishing private individual instruction in voice or on the piano, organ or other orchestra or band instrument. This charge is for one half-hour lesson each week during the regular college year and is payable as billed.

SCIENCE Fee. A fee of $25 per semester is charged to students majoring in Biology, Chemistry, Pre-engineering, Physics, and Freshmen who are enrolled in Undesignated Natural Science. This fee also applies to students majoring in Psychology during the semester in which Psychology 10 is taken.

BREAKAGE DEPOSIT. A deposit of $10 is required of each new student to defray any expense incurred by injury to property and is included on the bill for the first term. The unexpended balance is returned upon graduation or withdrawal from College.
STUDENT TEACHING. An additional fee of $75 is required of each student engaged in student teaching. This is payable upon presentation of the bill.

GRADUATION FEE. A graduation fee of $25 is charged each student on the last bill of his senior year. An additional deposit of $25 will be required for the use of cap, gown, and hood. This deposit will be refunded upon return of the equipment.

TRANSCRIPT FEE. A charge of $1 is made for each transcript of a student's record after the first. Requests for transcripts should be made to the Office of the Dean.

REGULATIONS

BILLS for the Comprehensive Fee are issued approximately thirty days before the beginning of each term. A student’s bill must be settled no later than the date indicated on the statement.

No student who is indebted to the College or to any of its departments or agencies will be permitted to register at the beginning of any term, and all items due the College from a candidate for graduation must be paid before the candidate may be presented for a degree.

A student who is absent from College because of sickness and retains his place in class pays the Comprehensive Fee in full during his absence, except when the absence is continuous over a period exceeding four weeks, in which case resident students are allowed a rebate of $10 for each full week on account of table board.

No refund is allowed because of a student’s dismissal or withdrawal from the College during a term, except when the student enters the armed services.

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

The possession or use of alcoholic beverages or firearms on the campus or in Collegeville is forbidden.

Freshman and Sophomore resident students are prohibited from having an automobile in Collegeville and vicinity during the academic year. Junior and Senior resident students holding scholarships, financial grants, and positions under the Bureau of Student Employment are similarly restricted.

If a woman student marries, she at once forfeits her membership in the College. She may, however, apply for readmission.

The College reserves the right to exclude at any time students whose conduct or academic standing renders them undesirable members of the college community, and in such cases the fees due or paid in advance to the College will not be refunded in whole or in part.
Scholarships and Financial Aid

FINANCIAL AID OFFICE
The Financial Aid Office, in cooperation with the Office of Admissions, renders financial assistance to students. Some of the sources of aid are Centennial and Presidential Scholarships, financial grants, permanent scholarship funds, student employment, Federal Educational Opportunity grants, and student loans.

CENTENNIAL SCHOLARSHIPS
In honor of the thousands who have worked for and served her so faithfully during her first century, Ursinus College each year grants Centennial Scholarships, in amounts which vary according to need, to those freshmen whose records and scores clearly indicate that they are outstanding students. These scholarships are tenable for four years, provided that the holder's scholastic work and conduct remain satisfactory. All scholarships are subject to yearly review.

PRESIDENTIAL SCHOLARSHIPS
The President of Ursinus College may confer scholarships each year in amounts up to $1,000 to those students who have demonstrated outstanding leadership, services, and ability during their secondary school or college years. These awards may be granted to incoming freshmen or upperclassmen and may be renewed for continued service to Ursinus College.

HONORS UPON ENTRANCE
Honors upon entrance are conferred by the President of Ursinus College upon those incoming Freshmen who present outstanding academic entrance credentials. These awards carry no stipend.
FINANCIAL GRANTS

Financial grants ranging from $200 to $1600 per year are awarded for one year on the basis of financial need. Ursinus College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for assistance.

Applications for scholarships and grants must be filed by February 1, on forms available from the Office of Admissions.

Entering students seeking financial assistance are required to submit a copy of the Parents' Confidential Statement (PCS) by February 1 to the College Scholarship Service, designating Ursinus College as a recipient. The PCS may be obtained from the secondary school or the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540, or P. O. Box 1025, Berkeley, California 94704.

All financial grants are reviewed annually. Eligibility for renewal is based upon relative need, satisfactory conduct, and the maintenance of the required scholastic average.

Upperclass students wishing assistance or the renewal of an existing grant are required to submit a Renewal Parents' Confidential Statement (RPCS) to the College Scholarship Service. An RPCS may be obtained from the Financial Aid Office and should be filed by February 1.

Students receiving aid from sources outside the College are required to report the amount to the Financial Aid Office. The College reserves the right to adjust grants and awards accordingly.

PERMANENT SCHOLARSHIP FUNDS

The College possesses a number of permanent scholarship funds. The income of each fund is assigned annually to a student designated by the College. Information about these scholarships is available from the Financial Aid Officer.

STUDENT EMPLOYMENT AND COLLEGE WORK-STUDY PROGRAM

The Bureau of Student Employment, conducted by the College, provides opportunity for a student to earn a part of his expenses by working as a waiter, laboratory assistant, library assistant, typist, or clerk in the College Store. These positions are standardized so as not to overburden the student or to interfere with his studies. Positions accepted under the Bureau of Student Employment must, however, always take precedence over any other extra-curricular activities. A standard position, such as
that of waiter in the dining room, pays three hundred and seventy dollars per year. Approximately two hundred positions, representing varying amounts of compensation and types of work, are now open to students.

A student who agrees to perform a specific task, such as serving in the dining room, has his account credited in advance of his work. If he is employed at an hourly rate, his account will be credited at the end of his term of work. Inasmuch as bills for the Spring Term are prepared and mailed before the end of the Fall Term, a student who works by the hour must have his bills adjusted at the opening of the Spring Term.

Letters of application, as well as those requesting information, should be addressed to the Director of Student Employment.

FEDERAL EDUCATIONAL OPPORTUNITY GRANTS
Federal Educational Opportunity Grants range from $200 to $800 per academic year and are based upon genuine need as supported by the College Scholarship Service, Parent’s Confidential Statement.

STUDENT LOANS
Loans are available to full-time Ursinus students under the Federal Guaranteed Loan Program outlined in the Higher Education Act of 1965. Each student may borrow up to $1,000 per year to a maximum of $7,500. If the family gross income is less than $15,000, the student pays no interest while in college. The federal government pays 6% interest until the student withdraws or is graduated, after which the student must arrange to repay the loan at 3% simple interest.

NATIONAL MERIT SCHOLARSHIPS
Ursinus College sponsors four National Merit Scholarships each year. These scholarships are awarded through the National Merit Scholarship Corporation and are open to any National Merit Finalist who has selected Ursinus College as his first choice. The awards do not limit in any way the number of finalists who may be sponsored by other contributing organizations. Application should be made to the National Merit Scholarship Corporation through the secondary school.
THE DEPARTMENTAL SYSTEM is employed in the organization and administration of instruction. By this system, the courses of instruction are offered in fourteen departments: Biology, Chemistry, Classics, Economics, English, German, Health and Physical Education, History, Mathematics, Philosophy and Religion, Physics, Political Science, Psychology, Romance Languages. The adviser is the medium of communication between the Faculty and students of his department. The approval of the adviser is necessary before a student may register for or enter upon any course of study, or discontinue any work.

A student, at matriculation, chooses the subject of major concentration he desires to pursue, and with the advice and consent of the adviser selects his studies for the year and reports his selection to the Dean on a blank provided for the purpose. A student who is uncertain as to his future plans, and therefore undecided as to his major field, may choose to be registered in an "Undesignated major" for the first year, but he must designate the broad choice of Humanities, Social Sciences, or Natural Sciences.

It has become necessary to limit the number of students in scientific programs. In order to follow a curriculum in Science, a candidate must indicate his intention to do so upon application for admission to the College. If the student applies for and is admitted to a program in the Humanities, Social Sciences, or in Languages he may subsequently transfer to a program in the Sciences only upon approval of the Committee on Admission and Standing. Request for change in Major should be addressed to the Dean of the College.

SUMMER READING PROGRAM

In order to stress the importance of good reading and to develop the student's appreciation of good writing, the Faculty has approved the Program in Summer Reading which is recommended for all students. It begins with the summer preceding the freshman year and continues through succeeding summers. The paper-bound volumes assigned for reading are mailed to the student upon his request. These books are discussed formally and informally during the early weeks of the first semester.
CHOICE OF STUDIES
The work of every student is composed of three parts: (1) courses which are, in the judgment of the Faculty, essential to a liberal education and are required of all students before graduation; (2) courses required by the department in which the student is registered, and which comprise his major field of concentration; (3) elective courses chosen by the student as a means of further individualizing his course of study, and adapting it to his own intellectual tastes and future purposes. (See Ursinus Plan.)

REGISTRATION
All students must register at the beginning of the Fall Term for the work of the Fall and Spring Terms. Changes in course of study may be made during the first week of a term with the written approval of the adviser. After the first week, courses may be added or dropped only by joint permission of the Dean, the adviser, and the instructors involved. A student who withdraws from a course without such permission will receive the grade of F. A fee is charged for the registration of students on days other than those appointed in the College Calendar.

In registering, the student must present to his department adviser his complete list of studies, both prescribed and elective, for the whole year. Courses prescribed as degree or departmental requirements or to satisfy conditions must take precedence over and be scheduled before elective courses. When a student changes to another department, he must fulfill the requirements of that department in order to be graduated.

REQUIREMENTS FOR GRADUATION
The requirement for the degree of Bachelor of Arts or Bachelor of Science is the completion of one hundred and twenty semester hours which must include all the courses required by the Faculty of all students for graduation and the courses required by the department to which the student belongs. At least sixty semester hours of this work must be completed at Ursinus College, and this must include the work of the senior year.

A regular student may not take in any one term fewer than twelve semester hours of work. The normal maximum for a term is five courses or fifteen semester hours. Two semester hours above the normal maximum may be scheduled with the approval of the adviser, provided the student's average for the preceding term is eighty or higher. Three semester hours above the normal maximum may be scheduled for the preceding approval of the adviser, provided the student’s average for the preceding term is eighty-five or higher (Exception: Engineering and Physical Education majors are permitted to schedule in each term three hours more than the normal maximum).

All fourth-year students shall enroll as full-time students. They must carry a minimum load of fourteen (14) semester hours in each of the last two semesters.
All requirements for graduation must be satisfied before the end of the last day of examination week preceding commencement. *Each student must bear responsibility for fulfilling his requirements for graduation.*

**USE OF LANGUAGE LABORATORIES**

*The language laboratory* is used regularly in either or both of the first two years in languages according to a schedule posted early in each academic year. The laboratory hours are required in addition to the regularly-scheduled class meetings. There is no semester hour credit for language laboratory.
ABSENCES

Students are expected to attend all meetings of the classes in which they are enrolled and to take all tests and examinations on the announced days.

A student's absences in any course must not exceed twice the number of meetings per week in that course. This regulation is designed to allow for cases of illness, the death of a relative, or duty away from the College as a representative of the institution, and, in the case of a day student, transportation difficulties.

If a student has exceeded the number of allowed absences he may be dropped from the course by the Dean after consultation with the instructor and the student's adviser. If a student is dropped for over-cutting, he will be assigned a grade of F in that course. If he is allowed to continue, he must make up the work missed and pay the required fees for permits and re-examinations.

Three latenesses are counted as the equivalent of one absence. Absences directly preceding and following a holiday are counted double.

A third-year or fourth-year student whose grades in the term immediately preceding include at least one A and no grade lower than B is placed on his own responsibility for attendance at classes.

GRADES OF SCHOLARSHIP

When a course has been completed, the standing of the student is expressed, according to his proficiency, by one of five grades: A, B, C, D, or F. Letter A denotes grades between 100% and 90%, B between 90% and 80%, C between 80% and 70%, D between 70% and 60%, and F denotes 45%. Any grade of less than 60% denotes a failure in the course. Students who have received passing grades are not permitted to take re-examinations for the purpose of raising their grades.

The mark I, which may be given only with the written permission of the Dean, is reserved for cases of incomplete work or of failure under extenuating circumstances. When the removal of the mark I requires an examination, a fee of ten dollars ($10.00) will be charged. If the mark of I is not removed within one month after the beginning of the following regular term, the grade of F will be assigned for the course.

A student is required to have an average of 70% at the end of each term in College. A student who fails to do so may be restricted in his extracurricular activities, and will be reported to the Faculty.

A student whose average at the end of the first term or second term is below 65%, whose cumulative average is below 65% at the end of the first year, or whose cumulative average is below 70% at the end of the third term or thereafter will be dropped from the College unless, as a
result of mitigating circumstances, the Faculty votes that he be permitted to continue. The action of the Faculty in all such cases is final.

Employment under the Bureau of Student Employment is not allowed to a student whose average for the preceding term is below 70%. A student under discipline may be barred by the Committee on Discipline from all extra-curricular activities.

A permanent record is kept of each student's work, a copy of which is sent to his parent or guardian at the close of each term. The standing of first-year students is reported also at mid-term. Through correspondence and conferences, the cooperation of parents is sought in the endeavor to obtain the best possible results in the work of students.

*Any student may be dismissed from the College for cause by the Faculty, regardless of the student's academic average.*

**DEGREES**

Ursinus College confers three degrees in course: Bachelor of Arts, Bachelor of Science, and Bachelor of Business Administration (Evening School only). For specific requirements of the curricula leading to each of these degrees, see pages 95 to 100 and the catalogue of the Evening School. Degrees are conferred only at convocations and *candidates must present themselves in person.*

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

**HONORS**

**COMMENCEMENT**

Two Commencement honors are assigned: one, the Valedictory, to the person attaining the highest standing in the graduating class; the other, the Salutatory, to the person attaining the next highest standing.

**GRADUATION WITH DISTINCTION**

Members of the graduating class who have shown great proficiency in their entire course may be graduated with distinction if, in the opinion of the Faculty, their attainments warrant such honors. These distinctions, *Summa Cum Laude, Magna Cum Laude,* and *Cum Laude,* are given only for unusual excellence in all the subjects pursued by the candidate.

**THE CHAPTER**

The Chapter, a society of faculty members with Phi Beta Kappa membership, is especially concerned with cultivating the arts and sciences at Ursinus College.
Each year The Chapter designates certain seniors as "Chapter Scholars" on the basis of the quality and range of their intellectual interests and attainments.

SOCIOLOGY OF THE SIGMA XI

The Society of the Sigma Xi, national honorary fraternity for the recognition and encouragement of scientific research, was founded at Cornell University, in 1886. The Society was incorporated in 1942. The Ursinus College Sigma Xi Club was installed on October 27, 1966. Election to the Club is based on achievement in original research, and limited to Juniors, Seniors, and Faculty. Elections are held once a year, the nominations coming from the faculty members.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION

A CAMP is available on an optional basis for sophomore, junior, and senior women who are majoring in Physical Education. The camp is operated during a period of two weeks immediately preceding the opening of the fall term. Class instruction by regular members of the staff normally includes work in archery, canoeing, hockey, horseback riding, officiating, swimming, life-saving, and tennis. The time spent in camp activities will be deducted from the hours required in Physical Education activities. Courses 303 to 308, during the college year. See under Financial Information, Fees.

JUNIOR YEAR ABROAD

An URSINUS COLLEGE STUDENT may spend the Junior Year at a foreign university, provided that he has maintained a B average at Ursinus College and, in the opinion of the Dean and the Faculty, will be a worthy representative of his country. The course of study abroad must be approved at the time that permission is given. An examination covering the year's work may be required by the department chairman upon the student's return.

Ursinus College is a member of the United Colleges for Foreign Study and Exchange. This organization is committed to a multilateral sponsoring of study opportunities at foreign institutions and aims to maintain academic standards which are comparable to those in effect on the local campus. At present the agency makes possible the participation of Ursinus students in programs in England, France, Germany and Mexico. In addition, a consultative service is provided, which furnishes information regarding foreign study opportunities in various other countries of the world. Detailed information concerning the opportunities afforded and the qualifications for participation may be obtained from the Dean.
FOREIGN STUDENTS

A Foreign Student, under guidance of the Foreign Student Adviser, is usually classified by the College as a Special Student, at least for his first year. He may then be admitted to degree candidacy for subsequent years. Although facility in understanding spoken English will be a requisite for admission, a foreign student would do well to arrive in the United States before the opening of the college year in order to become familiar with American English. A "homestay" of one month as arranged through the Experiment in International Living, Putney, Vermont, U.S.A., is highly recommended to anyone whose native tongue is not English. Further information can be obtained directly from the organization.

A foreign student should make sure that his visa is valid for more than a single entry into the United States, since on vacation trips he may wish to cross the borders into Canada or Mexico.

Dormitories and dining halls are not in operation during college holidays.

Transportation should be arranged via Philadelphia to Collegeville. Foreign students may telephone the Foreign Student Adviser at 215-489-4111 if they need assistance.
THE URSINUS PLAN
A Pivotal, Radial, and Complementary Program of Liberal Education in a World Setting at a Four-Year College

I. Curricular Program

A. Divisional Groupings of Course Offerings
   Language Division
   Humanities Division
   Social Science Division
   Science and Mathematics Division

1. Pivotal Courses. Breadth in Liberal Education. Selection of required representative courses from each Division.

2. Radial Courses. Further breadth in Liberal Education. Selection of Elective courses assuring distribution among Divisions not related to the Student’s Major.

3. Departmental Courses and Departmental Honors. Depth in Specialty.

B. Senior Symposium and College Honors.

1. Symposium. Open to all Seniors. Students are enabled to integrate their particular departmental interests collectively in dealing with current issues.

2. College Honors. Open to exceptional Students. Guided independent study.

II. Complementary Program

A. Cultural Activities
B. Student Activities
C. Physical Activities

48C
In the fall of 1966, students at Ursinus College began their participation in THE URSINUS PLAN, subtitled "A Pivotal, Radial, and Complementary Program of Liberal Education." The College has always placed emphasis upon a broad liberal arts background, and the new URSINUS PLAN provides even greater breadth, depth and freedom of choice. Learning takes place beyond the classroom, the lecture hall, and the laboratory; challenging and varied perspectives on learning itself are revealed by new groupings of related disciplines and course offerings.

Implicit in the URSINUS PLAN are four divisions, all of which are vital to the Liberal Arts student, who must learn the importance of pursuing and discerning truth through several methods of inquiry. These divisions are Language, Humanities, Social Science and Mathematics. Thus, all students at Ursinus College select certain Pivotal Courses, at least one from each division. These Pivotal Courses introduce the student to the characteristic subject matter and intellectual viewpoint of the particular division. In addition, each student elects a minimum of twelve credit hours of Radial Courses, chosen from a division or divisions outside the area of his departmental major. These Radial Courses add further breadth to the understanding gained from the Pivotal courses.

All students are also encouraged to participate in complementary activities, which, while not required, are nonetheless understood to be an integral part of the learning process. These activities provide many opportunities for social, educational, and cultural enrichment.

Finally, under the URSINUS PLAN all students may participate in the Senior Symposium, which provides them with an opportunity to integrate their various departmental specializations into the context of the world into which they are to be graduated, a world in which no one perspective on truth can be said to deal adequately with all the issues which they will encounter in these complex times. The Senior Symposium, with its unique emphasis upon guided independent study and interdisciplinary analyses of problems, heightens the perspectives of all who participate.

Exceptional students are given a further opportunity to pursue special interests in depth through the present program of Departmental Honors, as well as through the College Scholars' Program, which is open to Sophomores and Juniors.

Thus, in various ways and at several levels, THE URSINUS PLAN provides the industrious and the gifted student alike with a course of study in which will be found all kinds of learning, general and specialized, required and elective, theoretical and practical. The Plan opens the way to an education which is truly liberal and establishes a firm basis for continuing intellectual growth.
PIVOTAL COURSES

Each student, regardless of his choice of major and of his Departmental Requirements, is required to take the following Pivotal Courses:

LANGUAGE DIVISION:

Unless exempt in the manner prescribed, every student is required to take ENGLISH COMPOSITION 1, 2 and TWO FULL YEARS OF A FOREIGN LANGUAGE (to the 3, 4 level). FOREIGN LANGUAGE choices include courses in Classical Languages, Germanic and Slavic Languages, and Romance Languages.

Exemption from either English Composition or two years of a foreign language will be granted to those students who give evidence of having achieved proficiency in English Composition or in a foreign language comparable to that expected of students engaged in the same studies at Ursinus College. Proficiency will be measured by scores attained in Advanced Placement Examinations or the appropriate Achievement Test of the College Entrance Examination Board, or by an examination devised by the departments concerned. Each department will determine the level of proficiency required.

HUMANITIES DIVISION:

Every student is required to take one of the following full-year sequences of courses: HISTORY 1, 2; PHILOSOPHY 101, 102; WORLD LITERATURE; or COMPARATIVE WORLD CULTURES*.

SOCIAL SCIENCE DIVISION:

Every student is required to take one of the following full-year sequences of courses: PSYCHOLOGY 1, 8; ECONOMICS 3, 4; POLITICAL SCIENCE 1, 2; SOCIOLOGY 1, 2; or an INTEGRATED SEQUENCE OF COURSES IN THE SOCIAL SCIENCES*.

SCIENCE AND MATHEMATICS DIVISION:

Science Majors are required to take the INTEGRATED PHYSICAL SCIENCE COURSE, CMP 267 1, 2†. Mathematics Majors may elect to take CMP 267. Non-Science Majors (and Mathematics Majors who do not elect CMP 267) are required to take one of the following full-year sequences of courses: BIOLOGY 3, 4; CHEMISTRY 1, 2; PHYSICS 1, 2; GEOLOGY 1, 2; or an INTEGRATED SCIENCE COURSE FOR NON-SCIENCE MAJORS*.

†The course is the result of one year of planning followed by a one-year pilot course and two years of an experiment during which the course was open to the full complement of students. Approval has been given by the Faculty for inclusion in the URSINUS PLAN. See description on page 92.
THE URSINUS PLAN

RADIAL COURSES IN NON-MAJOR DISCIPLINES

Every student shall elect twelve (12) credit hours of Radial Courses offered by one or more Departments in one or more Divisions in which his own departmental major is NOT found. Election of Radial credit hours can be made from the following courses:

**Language Division:**
- Advanced English Composition
- Classical Languages
- Dramatic Arts*
- Germanic and Slavic Languages
- Public Speaking
- Romance Languages

**Humanities Division:**
- English Literature
- Fine Arts*
- Foreign Literature
- History
- Music
- Philosophy-Religion

**Social Science Division:**
- Anthropology
- Economics
- Education 2, 44
- Geography
- Political Science
- Psychology
- Sociology

**Science and Mathematics Division:**
- Biology
- Chemistry
- Geology
- Health & Phys. Ed. 32m 32w
- Mathematics
- Physics

*Here and elsewhere courses marked (*) have been recommended by the Faculty of Ursinus College, but may not be offered in 1968-69.

DEPARTMENTAL COURSES

(See Departmental Requirements for each major)

COLLEGE SCHOLARS' PROGRAM

Qualified Sophomores and Juniors may earn up to nine credits by pursuing guided independent study as College Scholars.

1. A candidate must prepare a prospectus for the study he wishes to undertake and with the written approval of his adviser he must submit his prospectus to the College Scholars Committee of the faculty.

2. The candidate must have achieved a minimum semester average of B+ during the semester immediately preceding. A Sophomore must have taken or have scheduled for his second semester, a course related to the topic of his proposed study.

3. A College Scholar must pursue his work under the supervision of a Divisional Tutor and must participate in two seminar meetings per semester designed to bring him into contact with other College Scholars working in the same Division.

4. A College Scholar's study will be graded on the basis of the Divisional Tutor's assessment of its merits and an oral examination.
5. A Scholar who receives a passing grade for his study will receive three semester credits for each semester during which he is designated as a College Scholar. A grade lower than B will disqualify him for a subsequent semester.

6. A Scholar may work for no more than one semester in the area of his academic major.

DEPARTMENTAL HONORS

Students may be graduated with special honors in departments of study in which they have shown exceptional proficiency, subject to the following regulations:

1. To be admitted to candidacy for Departmental Honors a student must have the endorsement of the Chairman of the Department in which he wishes to pursue the program, file the written approval in the Dean’s Office and register during the Spring pre-registration period of his Junior year.

2. A candidate must have a minimum cumulative average of B− in all courses taken throughout the first three years of college, and a minimum average of B+ in all courses taken in the department in which he seeks honors.

3. Upon consent of the adviser a candidate may be exempt from a three hour course in his own department.

4. The Project Adviser will assign a grade for the project and may recommend Departmental Honors. If the candidate receives a passing grade, he will earn three semester credits toward graduation, even though his work may not be recommended for Departmental Honors.

5. In order that the Faculty may consider the awarding of Honors, the candidate shall deposit his completed thesis, together with a written recommendation from his adviser, in the Office of the Dean by May 1 preceding the Convocation at which the Departmental Honors are to be awarded.

SENIOR SYMPOSIUM

The Senior Symposium is a cooperative teaching enterprise with an emphasis on discussion and dialogue among students, faculty, and visiting specialists from different disciplines.

The first semester’s work consists entirely of independent reading and periodic conferences with a Tutor. Selected readings, conference discussions, and an oral examination comprise the first semester. The second semester’s work concentrates on the major issues confronting Americans today. The Symposium meets twice a week for one and one-half hours. Approximately one-half of this time is devoted to lectures, panels, and question periods, followed by discussions to further the student’s inquiry into the issues at hand.
COMPLEMENTARY PROGRAM

Complementary Cultural Activities

Every student is encouraged to participate in cultural activities at Ursinus College. The activities are planned in a four-year cycle of emphasis. They include the FORUM series, the SUMMER READING program, academic CONVOCATIONS, and related activities such as FIELD TRIPS to museums, and other complementary activities.

Complementary Student Activities

Every student is encouraged to participate in those student activities which provide opportunities for integrating perspectives and content of several disciplines and courses within the four divisions. While students are not restricted to participation in activities related to their divisional or departmental fields, the following listing will assist students in seeing those relationships:

Language Division:
- French Club
- German Club
- Spanish Club
- Debating Team
- College Bowl

Humanities Division:
- English Club
- YM-YWCA
- Meistersingers
- Messiah Chorus
- Chapel Choir
- Ursinus College Band
- Curtain Club
- Ursinus Weekly Staff
- Lantern Staff
- Ruby Staff

Social Science Division:
- Economics Club
- International Relations Club
- Intercollegiate Conference on Government
- Focus Staff
- Psychology Club
- Pennsylvania State Education Association
- Men’s Student Government Association
- Women’s Student Government Association

Science and Mathematics Division:
- Beardwood Chemical Society
- Brownback-Anders Pre-Medical Society
- Mathematics Club

Complementary Physical Activities

Every student is required to take PHYSICAL EDUCATION 101, 102, unless he is a Physical Education Major or is otherwise excused. In addition every student is encouraged to participate in the activities of organizations such as the Outing Club, and to engage in intramural as well as varsity sports.
IN DESIGNATING COURSES of study, odd numerals are employed to indicate the courses offered during the Fall Term and even numerals the work of the Spring Term. Exceptions to this regulation are noted. Summer Term offerings are not announced in this catalogue, but so far as possible, courses will be offered to meet the needs of students who register for the Summer Term.

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

ANTHROPOLOGY

1. Introduction to Anthropology
   STAFF
   Archaeology, physical anthropology, and the nature of culture. Three hours per week. Three semester hours.

2. Introduction to Anthropology
   Continuation of course 1. Three hours per week. Three semester hours.

BIOLOGY

This Department aims, through the study of a number of fundamental aspects of Biology, to foster the scientific attitude in its students, to encourage an enthusiastic interest in the subject of Biology as a science, and to provide for its majors a background for graduate work in Biology and for professional preparation in the several fields of human and veterinary medicine and other health services. Also, the Department participates in offering a program for Teacher Certification in secondary schools, as described below.

Students majoring in Biology must take a minimum of 28 semester hours in Biology, including Biology 103, 104; 10; 19; 21 and 22. Additional electives are to be selected from Biology 5, 6, 17, 18, 20, 23, 24, 25. This department also requires its majors to take CMP 267-1, 2 and, except for students in the teaching program, Chemistry 7, 8. Those planning to pursue graduate studies in Biology are advised to elect Mathematics 31 (Intermediate Calculus), and/or Mathematics 13, 14 (Statistics), and/or Mathematics 41 (Probability), preferably before their fourth year.

Teaching This program (major in Science, concentration in Biology) is designed for prospective secondary school teachers whose principal interest is Biology and who wish to be certified in Biological Science, Science, and General Science.

The following courses are prescribed by the Department of Biology: Biology 103, 104, 5, 6, 17, 18, 10 or 19, 21, 22, CMP 267-1, 2 and History 16.

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education. For sequence of courses, see Major in Science, Concentration in Biology, p. 98.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP 267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See p. 92.
COURSES OF INSTRUCTION

3. General Biology (Zoology)  
DR. HOWARD  
Introduction to principles of structure, function, and development of living things as revealed in a study of selected animal types. Two hours of lecture; one two-hour laboratory period per week. *Three semester hours.*

4. General Biology (Botany)  
DR. HOWARD  
Introduction to principles of structure, function, and development of living things as revealed in a study of selected plant material. Two hours of lecture; one two-hour laboratory period per week. *Three semester hours.*

*Courses 3 and 4 of General Biology are not open to Biology majors but may be taken by other students to satisfy the college requirements for graduation.*

103. General Biology (Zoology)  
DR. VAN DAM  
A study of general principles of structure, function, and development of animal cells and organs and of representative animal types. Prerequisite, CMP 267, 1-2. Two hours of lecture; two two-hour laboratory periods per week. *Four semester hours.*

104. General Biology (Botany)  
DR. VAN DAM  
A study of general principles of structure, function and development of plant cells and of representative plant types. Prerequisite, Biology 103. Two hours of lecture; two two-hour laboratory periods per week. *Four semester hours.*

*Courses 103 and 104 are the basic introductory courses prescribed for all biology majors and for any others who are planning to meet the various pre-professional requirements in biology.*

5. Animal Ecology  
DR. HOWARD  
Studies of the interrelationships among organisms and their environment, with emphasis on field investigations. The following principles and concepts are stressed: adaptation, parasitism, population dynamics, the community, succession, and energy relations. Two hours of lecture; one three-hour laboratory period per week; occasional field trips to include forest, fresh-water, and marine environments. Prerequisite, Biology 3 or Biology 103. *Three semester hours.*

6. Advanced Botany  
DR. WAGNER  
The course is designed to give the student a more detailed knowledge of the vascular plant groups, stressing the principles of taxonomy, ecology, and plant geography. Lectures and discussions followed by field and laboratory work. Prerequisite, Biology 104. Two hours of lecture; one three-hour laboratory period per week. *Three semester hours.*

*Biology 6 is required for those who intend to apply for certification in Pennsylvania as teachers of biology and for pre-veterinarian students.*

10. Comparative Anatomy  
DR. HOWARD  
Comparative anatomy and phylogeny of the chordates, with emphasis on the vertebrates. Comparative laboratory dissections of shark, amphibian, and mammal. One hour of lecture; two three-hour laboratory periods per week. Prerequisite, Biology 103. *Four semester hours.*
17. Human Anatomy and Physiology  
MRS. SHINEHOUSE  
A study of the structure, function and development of the muscular, skeletal, and nervous systems. One hour of lecture; one two-hour laboratory period per week. Two semester hours.

18. Human Anatomy and Physiology  
MRS. SHINEHOUSE  
A study of the structure, function, and development of internal and sense organs. Prerequisite, Biology 3 or 103. One hour of lecture; one two-hour laboratory period per week. Two semester hours.

19. Embryology  
DR. WAGNER  
Gametogenesis, early development, histogenesis and organogenesis of selected animal types, especially the chick, pig, and human. Prerequisites, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

20. Histology  
DR. WAGNER  
Structural and developmental study of tissues and organs of the vertebrate body. Introduction to histological technique. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

21. Heredity  
DR. WAGNER  
Lectures and discussion dealing with the principles of plant and animal genetics, and the consideration of factors pertaining to human inheritance. Assigned readings and papers. Prerequisite, Biology 3, 4 or 103, 104. Three hours per week. Three semester hours.

22. Evolution  
DR. WAGNER  
Lectures and discussions explaining the history of living things in space and time. Assigned readings and papers. Open to all students. Two hours per week. Two semester hours.

23. Seminar  
STAFF  
Papers and reports concerned with selected phases of biological knowledge. Topics to be chosen by the instructor in charge. Prerequisites, Biology 10 or 19; Chemistry 7, 8. Open to fourth-year majors in biology. One hour per week. One semester hour.

24. Seminar  
STAFF  
A continuation of Biology 23. Prerequisites, Biology 10, or 19 or 20; Chemistry 7, 8. Open to fourth-year majors in biology. One hour per week. One semester hour.

25. General Physiology  
DR. VAN DAM  
A study of physical-chemical aspects of cellular processes, and principles of related experimental techniques. Prerequisites, Biology 103, 104; Chemistry 7, 8. Two hours of lecture; one four-hour laboratory period per week. Four semester hours.  
Enrollment is limited to 15 students in each term. A minimum enrollment of six students is required for course to be offered.

*26. General Physiology  
DR. VAN DAM  
A continuation of Biology 25. Prerequisites, Biology 7, 8, 25. Two hours of lecture; one four-hour laboratory period per week. Four semester hours. A minimum enrollment of six students is required for course to be offered.

*This course is not offered in 1968-1969.
COURSES OF INSTRUCTION

31. Microbiology

The structural, cultural and physiological characteristics of microorganisms and their role in the economy of nature. The principles of immunity, serology and virology are also considered. Prerequisites, Biology 103, 104. Two hours of lecture per week, two hours of laboratory. Three semester hours.

32. Biochemistry

Chemistry and intermediate metabolism of proteins, lipids, carbohydrates, and nucleic acids; energetics of biological compounds; chemistry of photosynthesis, digestion, absorption, assimilation, and excretion. Prerequisites, Chemistry 7, 8. Two hours of lecture per week, two hours of laboratory. Three semester hours.

CHEMISTRY

PROFESSOR STAIGER
PROFESSOR PETTIT
PROFESSOR STURGIS

ASSISTANT PROFESSOR BARTH
ASSISTANT PROFESSOR SCHULTZ
ASSISTANT PROFESSOR HESS
MRS. BICKING

The courses of study offered by the Chemistry Department are (1) to provide a course in general chemistry which will satisfy the requirements of the College for a laboratory science; (2) to provide training in chemistry for students planning to teach; (3) to provide more than minimum training for students planning to become technicians in medical laboratories, and for pre-dental and pre-medical students; (4) to offer sufficient specialized training in chemistry beyond the basic courses that will enable a graduate to enter a career as a professional chemist; and (5) to prepare students for graduate training.

Students whose principal interest is Chemistry will select a degree of concentration consistent with their vocational objective.

One of the following programs must be selected:

I. Chemistry Major

This program is approved by the American Chemical Society for undergraduate professional training in Chemistry.

The following courses are prescribed: CMP 267-1, 2; Chemistry 3, 4, 5, 7, 8, 9, 10, 11; Mathematics 31, 32; Physics 4 or Biology 3, 4; German 3, 4. The following are recommended as electives: Chemistry 6, 12, 21, 30; Physics 7, 8; German 11, 12.

II. Healing Arts

This program is designed for degree-seeking students planning for admission to professional schools in the healing arts (medicine, dentistry, osteopathy, veterinary medicine, etc.) who are specializing in Chemistry in college.

The following courses are prescribed: CMP 267-1, 2; Chemistry 3, 7, 8, 9, 10; Biology 103, 104.

III. Teaching

This program (major in Science, concentration in Chemistry) is designed for prospective secondary school teachers whose principal interest is Chemistry and who wish to be certified in Physical Science, Science, and General Science.
The following courses are prescribed by the Department of Chemistry: CMP 267-1, 2; Biology 3, 4; Chemistry 3, 7, 8; 9, 10 or 11, 12; History 16; Physics 11, 12. A student presenting six credits in general chemistry may satisfy the prerequisite for an advanced course by passing a written examination set by the faculty of the Department.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See p. 92.

1. General Chemistry
   A development of the facts, theories, and methods of chemistry as applied to solids, liquids, gases and solutions. Related laboratory work is given. Chem. 1 does not satisfy the prerequisite requirements for advanced chemistry courses. Two hours of lecture and three hours of laboratory per week. Three semester hours.

2. General Chemistry
   A continuation of Course 1. Prerequisite, Chemistry 1. A study of the properties and reactions of the elements. A study of descriptive inorganic and organic chemistry based on principles of equilibrium and structure. Chemistry 2 does not satisfy the prerequisite for advanced chemistry courses. Two hours of lecture and three hours of laboratory per week. Three semester hours.

3. Quantitative Analysis
   A study of commonly used methods of gravimetric and volumetric analysis. Emphasis is placed on the theory of equilibrium developed in CMP 267-1, 2. Three hours lecture and three hours of laboratory per week. Four semester hours.

4. Inorganic Chemistry
   Selected topics in the descriptive chemistry of the elements in terms of modern bonding theory. The laboratory work involves the application of special techniques to the synthesis of representative inorganic compounds. Three hours of lecture and three hours of laboratory per week. Prerequisite, Course 9. Four semester hours.

5. Analytical Chemistry
   An advanced course in quantitative analysis. Topics covered are non-aqueous and complexometric titrimetry, analytical separations, quantitative organic analysis and electrochemistry. Prerequisites, Courses 3, and 10. Two hours of lecture and three hours of laboratory per week. Three semester hours.

6. Instrumental Analysis
   A study of the principles and applications of modern instrumental analysis with particular emphasis on the chemical principles on which the methods of measurement are based. Prerequisite, Courses 3, 9. Two hours of lecture and three hours of laboratory per week. Three semester hours.

7. Organic Chemistry
   The study of the properties, synthesis, and the structure of the most important classes of the carbon compounds. Prerequisites, Courses 101, 102 or equivalent. Three hours of lecture and three hours of laboratory per week. Four semester hours.

8. Organic Chemistry
   A continuation of Course 7. Prerequisite, Course 7. Three hours of lecture and three hours of laboratory per week. Four semester hours.
9. Physical Chemistry

The principles of thermodynamics and quantum chemistry are used in studying the states and structure of matter. Kinetics and mechanism, equilibrium, electro-chemistry, surface chemistry, solutions, and phase rule are also studied. Related laboratory work is provided. Prerequisites, Chemistry 102, Physics 2, or CMP 267-2, Chemistry 3, and Mathematics 31. Mathematics 32 is recommended. Three hours of lecture and three hours of laboratory work per week. Four semester hours.

10. Physical Chemistry

A continuation of Course 9. Prerequisite, Course 9. Three hours of lecture and three hours of laboratory work per week. Four semester hours.

11. The Identification of Organic Compounds

The classification and identification of organic compounds based on physical and chemical properties; the chemical analysis of organic functional groups and the preparation of characteristic derivatives. Two hours of lectures and six hours of laboratory per week. Prerequisite, Course 8. Four semester hours.

12. Advanced Organic Chemistry

A study of the structures of organic molecules and their relation to the mechanism of organic reactions. Prerequisite, Courses 10 and 11. Three hours of lecture per week. Three semester hours.

21. The Literature of Chemistry

The use of books, journals, and reports in the field of chemistry. Open to third and fourth year students. Prerequisites, Course 8, German 4. One hour per week. One semester hour.

22. Seminar in Organic Chemistry

Reports on recent advances in Organic Chemistry. One hour per week. One semester hour.

23. Seminar in Physical Chemistry

Paper and reports in Physical Chemistry. One hour per week. Prerequisite, Course 10. One semester hour.

30. Research

Laboratory and library work with a final report. Students admitted to the course must follow the requirements for admission to Departmental Honors. Satisfactory completion of the course may result in awarding Departmental Honors. The laboratory work will be equivalent to three hours of work per week and will be conducted during the seventh and eighth semesters. Three Semester Hours.

CLASSICAL LANGUAGES

PROFESSOR DONALD BAKER

The chief objective of the Classics Department is to develop in the student accuracy in thought and verbal expression. Other objectives are to enlarge the student's perspective by introducing him to a civilization other than his own; to increase his knowledge and understanding of the literature and institutions of England and America by studying the Greek and Roman sources from which they came; to encourage in the student a mastery of two languages which are important tools in many fields.
Students majoring in Classical Languages are required to take at least 12 semester hours of Greek and 12 semester hours of Latin beyond Latin 2. In the first half of his senior year, each student must take the Seminar in Classical Studies, Greek 7. In the examination at the close of this course, he will be expected to show a satisfactory general knowledge of Greek and Roman literature, language, art, history, geography, mythology, religion, and private life. For this examination the student is expected to prepare himself (with the advice and help of the instructor) throughout his previous three years both by courses and by outside reading.

**GREEK**

1. *Beginning Greek*  
Three hours per week. *Three semester hours.*  
Course I may be elected by students in any major field.

2. *Intermediate Greek*  
Three hours per week. *Three semester hours.*  
Prerequisite, Greek 1 or its equivalent.

3, 4, 5, 6. *Advanced Greek*  
Readings from Homer, Thucydides, Aristophanes, and other authors depending on the preferences and capacities of those electing the course. Only one of these courses will be given in any one semester. *Three semester hours.*

7. *Seminar in Classical Studies*  
A study of selected topics dealing with the Greco-Roman world. Knowledge of Greek and Latin is a prerequisite. Three hours per week. *Three semester hours.*

8. *New Testament Greek*  
Three hours per week. *Three semester hours.*  
Prerequisite, Greek 2.

**LATIN**

1. *Elementary Latin*  
A study of the grammar, syntax, and vocabulary, with emphasis upon the Latin elements in English words. Reading of passages from various authors. Three hours per week. *Three semester hours.*

2. *Elementary Latin continued*  
*Three semester hours.*

3, 4. *Ovid, Virgil*  
Each *three semester hours.*  
Prerequisite, Latin 2 or its equivalent.

5, 6, 7, 8, 9, 10, 11, 12. *Advanced Latin*  
The instructor will arrange with students electing these courses to read authors of one period or literary type, or authors whose works may be correlated with other fields of study, e.g., philosophy, history, law. Not more than two of these courses will be given in any one semester. Each of them carries *three semester hours* credit.  
Prerequisite, Latin 4 or its equivalent.
COURSES OF INSTRUCTION

DRAFTING AND DESCRIPTIVE GEOMETRY

1. Drafting

Freehand lettering, use of instruments, geometric construction, freehand sketching, orthographic projection including auxiliary views, sectioning, axonometric projection, oblique projection, intersections, developments, fasteners, dimensioning, working drawings, shop processes, reproduction methods, graphs. Six hours laboratory per week. Three semester hours.

2. Descriptive Geometry

Principles of projection, problems involving the essential relations of points, lines and planes, surfaces of revolution, warped surfaces, intersections, developments. Six hours laboratory per week. Prerequisite, Drafting 1. Three semester hours.

ECONOMICS

PROFESSOR SHEARER
ASSISTANT PROFESSOR SYMONS

ASSISTANT PROFESSOR RAFETTO
ASSISTANT PROFESSOR BRENGLE

The work in the Economics Department is designed to give (1) a knowledge of economic philosophy; (2) a knowledge of the structure and functioning of our economy; (3) a suitable background for those who wish to enter business, government, or graduate school.

Students majoring in the department must take a minimum of thirty (30) semester hours of work in the department, including Courses 3, 4, 16, 21, 26, and 27. In addition, the following courses are required: History 1, 2; Mathematics 1, 2; Mathematics 13, 14; Philosophy 103 or 104 (a, b, or c) or 106; Political Science 1, 2; and Psychology 1. It is recommended that those students intending to do graduate work in economics or business administration also take Economics 11, 12, and 33; and Mathematics 29, 30.

3. Economic Principles

Basic economic concepts, national income and its fluctuations, the money and banking system, and the role of government. Three hours per week. Three semester hours.

4. Economic Principles

Price theory, income distribution, international trade, and current economic problems. Three hours per week. Three semester hours. Prerequisite, Course 3.

5. Labor Economics

MR. RAFETTO

Labor marketing with emphasis on employment and wage problems, economic security, and collective bargaining, including an appraisal of public policy. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

6. Corporation Finance

MR. BRENGLE

Basic principles underlying the financing of the corporate structure. Short and long-term financing instruments. Expansion, failure, and reorganization of the corporation. Prerequisite, Course 3. Three hours per week. Three semester hours.

7. Marketing

MR. SYMONS

Basic principles and practices involved in the physical distribution of goods and services between producers and consumers. Methods used to create place, time, and possession utility. Three hours per week. Three semester hours.

*This course is not offered in 1970-1971.

***This course is not offered in 1969-1970.
International trade theory involving classical and neoclassical concepts. Present institutional arrangements. Foreign exchange rates, balance of payments, tariffs. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.

11. **Accounting Principles**

Introduction to principles and procedures underlying the periodic determination of income and of financial position; emphasis is directed toward the function of communication. Three hours per week. *Three semester hours.*

12. **Accounting Principles**

Principles and procedures required for the accumulation and classification of data for managerial control and for financial analysis. Prerequisite, Course 11. Three hours per week. *Three semester hours.*

13. **Public Finance and Taxation**


15. **Business Law**

Fundamental procedures governing contracts, sales, agency, bailments and negotiable instruments with emphasis on the analysis of cases. Three hours per week. *Three semester hours.*

16. **Money and Banking**


17. **Government and Business**


18. **Industrial Organisation and Management**

Historical development of modern management practices. Principles and problems of organization, standardization, motivation, and control. Three hours per week. *Three semester hours.*

21. **History of Economic Thought**

Development of systematic economic thinking from early Mercantilism through the Physiocrat, Classical and Neo-Classical schools. Contrasts the thought, policy, and practices of the past with the present. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

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*This course is not offered in 1970-1971

**This course is not offered in 1969-1970
26. Intermediate Economics I (Micro-economics)  
DR. SHEARER  
Advanced study of price theory and income distribution. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

27. Intermediate Economics II (Macro-economics)  
DR. SHEARER  
Measurement of economic fluctuations, their causes, governmental policies of stabilization and growth, and forecasting. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

28. Comparative Economic Systems  
MR. RAFETTO  
Analysis of the Capitalist, Socialist, Communist, Fascist and cooperative economic systems. Economic policies and problems of the United Kingdom, U.S.S.R., Communist China, Yugoslavia, and India are reviewed. Prerequisite Courses 3, 4. Three hours per week. *Three semester hours.*

30. Seminar in Economics  
STAFF  
Preparation, presentation, and discussion of reports on selected topics in the field of economics. Open to fourth year departmental majors. One hour per week. *One semester hour.*

31. Intermediate Accounting  
MR. BRENGLE  
An intensive study of recording and reporting for units of economic activity with emphasis directed to the establishment of controls through the use of forecasts, budgets and standard costs, and to the problems of asset valuation. Prerequisite, Course 11, 12. Three hours per week. *Three semester hours.*

32. Intermediate Accounting  
MR. BRENGLE  
A continuation of the previous course, dealing with problems involving corporate capital, cost accounting, techniques and the analysis of financial data for decision-making purposes, Prerequisite, Course 31. Three hours per week. *Three semester hours.*

33. Econometrics  
STAFF  
Mathematical formulation, measurement, and testing of economic concepts. Static and dynamic models; demand, supply, cost, production, consumption, liquidity preference functions; elasticity and marginal concepts; profit and utility maximization. Prerequisites: Economics 3, 4; Mathematics 1, 2; Mathematics 13, 14. Three hours per week. *Three semester hours.*

34. Economic Development  
DR. SHEARER  

*This course is not offered in 1970-1971.*

**This course is not offered in 1968-1969.*
The Department of Education aims (1) to increase the students' awareness of the function of the school in modern society; (2) to understand forces which cause change in society and to formulate appropriate philosophies of education for establishing schools in that society; (3) to increase the students' understanding of the nature of growth and the development of individuals; (4) to acquaint the students with modern theories of learning; (5) to provide opportunities for future teachers to become acquainted with acceptable practices in the schools; (6) to develop the skills necessary for a beginning teacher.

The Department of Education provides the professional courses required for certification of secondary school teachers in Pennsylvania, New Jersey, Delaware and Maryland. Students preparing for requirements of other states should consult the Chairman of the Department for information concerning specific requirements of those states. The Department of Education regards the preparation of teachers to be a function of the college as a whole.

Students preparing for teaching must complete Psychology 1 prior to taking courses in Education. As a prerequisite to student teaching, third year students in areas other than Physical Education are required to observe classes in secondary schools for fifteen hours. For Physical Education majors at least seven hours of observation should be in elementary schools. The remainder of the fifteen hours of observation will be in the secondary schools. Information regarding this observation can be obtained in the office of the Department.

Those students who elect student teaching in the fall semester of 1968 will have a full semester of professional courses. The following courses will be given in that semester: Education 41, 43, 5 and 44.

The following program of studies is required by all students seeking certification in secondary school teaching. This program should fulfill certification requirements for Pennsylvania and surrounding states:

Second year, 2nd semester, Education 2; Third year, Education 31, 32; Fourth year, 1st semester, Education 41; Education 43; Education 5; Education 44. Education 43 will be satisfied for students who major in Health and Physical Education upon the successful completion of Physical Education 55 and 56.

2. Introduction to Secondary School Teaching  
Dr. Leight, Mr. Lissfelt

The characteristics of teaching as a profession; organization and characteristics of American education; analysis of the school as a social institution and of its relationships to the community it serves. Three hours per week. Three semester hours.

5. Student Teaching and Practicum  
Dr. Wessel, Dr. Leight, Mr. Lissfelt

A laboratory course consisting of observation and student teaching. Supervision is provided by the Department of Education in cooperation with cooperating teachers from the selected schools. Where possible, supervision will also be provided by members of the college faculty whose interests are those of the subjects which the students teach. Conferences and critiques are held between the college supervisors and student teachers. A practicum is held weekly while the student teaching program is in progress, dealing with the analysis of classroom instructional practices and the responsibilities of a beginning teacher. This course is open only to fourth-year students who meet the personality and academic requirements. Fall semester. Prerequisites, Ed. 2, 31, 32, 41, 43. Eight semester hours.
9. Educational and Psychological Tests and Measurements  
DR. FLETCHER
An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, courses 31, 32, and Psychology 1. Three hours per week. Three semester hours. (Same course as Psychology 9).

31. Educational Psychology: Growth and Development  
DR. FLETCHER, DR. RIDGE
The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional and social growth from the prenatal period until old age. The development of attitudes, interests and values. The ideal of an integrated personality. (Same course as Psychology 31). Prerequisite, Psychology 1. Three hours per week. Three semester hours.

32. Educational Psychology: Learning and Teaching  
DR. FLETCHER, DR. RIDGE
The role of the teacher as a professional person. Basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (Same course as Psychology 32). Prerequisite, Psychology 1. Three hours per week. Three semester hours.

34. Seminar in Secondary Education  
DR. LEIGHT
A study of a selected topic, such as those drawn from curriculum or guidance, which is relevant to secondary education. Two hours per week. Two semester hours.

41. Orientation to Educational Practice and Methodology  
DR. WESSEL, DR. LEIGHT
Principles of secondary school teaching; general methods of instruction; problems of the beginning teacher; instruction and practice in the utilization of audiovisual methods and materials. Two hours per week. Two semester hours.

43. Special Methods of Teaching in the Secondary School  
STAFF
Instruction in the techniques appropriate to the teaching of secondary school subjects; units on reading, where appropriate. Sections will be formed in the following areas and noted with the designated suffixes on the college records:

- (C) - Classical Languages
- (E) - English
- (G) - Germanic and Slavic Languages
- (M) - Mathematics
- (R) - Romance Languages
- (S) - Science
- (X) - Social Science

Requisite, Education 41. One hour per week. One semester hour.

44. Foundations of Education  
DR. LEIGHT, MR. LISSFELT
A study of the historical and philosophical foundations of American education; problems of contemporary education and their potential implications for the secondary school teacher. Three hours per week. Three semester hours.

Complete statements of the various requirements for certification in each subject matter area, for both Pennsylvania and New Jersey, are obtainable at the office of the head of the department of Education.

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This department offers instruction in the knowledge and use of the English language, a study based on the premise that language is the indispensable tool in the life and labor of civilized man and is the art through which he most fully expresses his spirit. Its courses in literature provide opportunity to form an extensive acquaintance with English and American literature and to understand individual works as unique artistic creations and as products of a historical and social process. The ultimate aim is to implant a discriminating appreciation for the best that has been written in our civilization.

Students majoring in English must take the following courses: English Literature 3, 4; 9, 10; 13 or 14; 19, 20; and nine additional semester hours in English; History 1, 2; 9, 10 or 11, 12; 13, 14.

English majors are required in the senior year to pass comprehensive examinations in English and American literature to complete departmental requirements.

Students preparing for graduate study in English should elect French and German as their modern languages. Study in classical languages is strongly recommended for such students.

COMPOSITION

1. **First-Year Composition**
   - The fundamental grammar of English; the study and writing of expository prose.
   - Three hours per week. *Three semester hours.*

2. **First-Year Composition**
   - Continuation of Course 1; training in the critical reading of prose and verse. Pre-requisite, Course 1.
   - Three hours per week. *Three semester hours.*

5. **Advanced Composition**
   - Discussion of and practice in current types of fictional writing, with emphasis on the short story. Pre-requisite, Courses 1, 2.
   - Two hours per week. *Two semester hours.*

6. **Advanced Composition**
   - Discussion of and practice in non-fictional writing with an introduction to basic forms of journalism. Pre-requisite, Courses 1, 2.
   - Two hours per week. *Two semester hours.*

*7. **Advanced Composition**
   - A course in descriptive writing and an introduction to the various creative forms used in Composition 8. Pre-requisite, Courses 1, 2.
   - Two hours per week. *Two semester hours.*

*8. **Advanced Composition**
   - A conference course in creative writing offering the student opportunity to practice his favorite type of composition. Enrollment is limited to twelve qualified students by arrangement with the instructor. Pre-requisite, Courses 1, 2. Individually scheduled. *Two semester hours.*

*This course is not offered in 1968-1969.
LITERATURE

3. Survey of English Literature
The history of English Literature from the beginning to the end of the neo-classical era. Special attention is given to the social background. Three hours per week. *Three semester hours.*

4. Survey of English Literature
A continuation of course 3 to the present. Three hours per week. *Three semester hours.*

Courses 3, 4 are prescribed for second-year students majoring in English and are elective for second-year students in other major fields.

5. English Literature from 1660 to 1740
The literature of the Restoration and the early decades of the eighteenth century. Three hours per week. *Three semester hours.*

Course 5 is elective for third-year and fourth-year students.

6. English Literature from 1740 to 1795.
The literature of the neo-classical age and of pre-romanticism. Three hours per week. *Three semester hours.*

Course 6 is elective for third-year and fourth-year students.

7. English Poetry, 1790-1824
A study of English poetry from 1790 to the death of Byron. Three hours per week. *Three semester hours.*

Course 7 is elective for third-year and fourth-year students.

8. English Poetry, 1824-1890
A study of the poetry of Tennyson and his contemporaries. Three hours per week. *Three semester hours.*

Course 8 is elective for third-year and fourth-year students.

9. Shakespeare
The reading of Shakespeare's principal plays and the study of their background. Three hours per week. *Three semester hours.*

10. Shakespeare
Continuation of Course 9. Course 9 is not a prerequisite for Course 10. Three hours per week. *Three semester hours.*

Courses 9 and 10 are prescribed for students majoring in English and are elective for third-year and fourth-year students in other major fields.

13. History of the English Language
A survey of the development of the English language from Anglo-Saxon to modern American English. Three hours per week. *Three semester hours.*

14. Advanced Grammar
A study of historical grammar and linguistics. Three hours per week. *Three semester hours.*

Course 13 or Course 14 is prescribed for second-year or third-year students majoring in English.

15. Modern Poetry
English poetry from 1890 to the present. Two hours per week. *Two semester hours.*

Course 15 is elective for all students.
19. American Literature  
A survey of American literature from its beginning to the Civil War. Three hours per week. *Three semester hours.*

20. American Literature  
American literature from the Civil War to the present. Prerequisite, Course 19. Three hours per week. *Three semester hours.*

Courses 19 and 20 are prescribed for students majoring in English and are elective for second-year, third-year and fourth-year students in other major fields.

21. Classics in Translation  
A study of Homer and Greek and Roman comedy. Two hours per week. *Two semester hours.*

24. Seminar  
The reading and interpretation of English and American poetry. Prerequisite, Course 3, 4. Three hours per week. *Three semester hours.*

Course 24 is elective for fourth-year students. Enrollment is limited to twelve qualified students.

27. Critical Theory and Practice  
A survey of critical approaches to literature from Sir Philip Sidney’s *The Defense of Poesy* to the present, emphasizing the practical application of critical principles in the student’s own writing. Three hours per week. *Three semester hours.*

29. Chaucer  
A study of Chaucer’s poetry in its historical context, including *Troilus and Criseyde*, *The Canterbury Tales*, and some of the short poems. Three hours per week. *Three semester hours.*

30. English Non-Dramatic Literature, 1485-1660  
A study of the non-dramatic poetry and prose of the English Renaissance, with concentration upon the works of the Oxford humanists, Spenser, the metaphysical poets, and Milton. Prerequisite, Literature 3 or History 4. Three hours per week. *Three semester hours.*

Course 30 alternates with Course 31.

31. English Drama, Beginnings to 1642  
A study of the development of English drama (excluding Shakespeare) through the Medieval and Renaissance periods up to the closing of the theaters. Prerequisites, Literature 3 and Literature 9 or 10. Three hours per week. *Three semester hours.*

Course 31 alternates with Course 30.

32. Milton  
The reading of Milton’s poetry and most important prose works and the study of their background. Prerequisite, Literature 3 or History 4. Three hours per week. *Three semester hours.*

33. The Novel in England and America Before the Twentieth Century  
A study of the origins and development of the novel in England and America from the seventeenth through the nineteenth centuries. Prerequisite, English Composition 1. Three hours per week. *Three semester hours.* (Alternates with 35.)

*This course is not offered in 1968-1969.*

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*34. The Novel in England and America Since the Beginning of the Twentieth Century

A study of the development of the novel in England and America during the twentieth century. Prerequisite, English Composition 1. Three hours per week. Three semester hours. (Alternates with 36.)

Courses 33 and 34 need not be taken consecutively.

*35. Modern Drama

A reading and discussion course in European and American dramatists, movements, and genres from Ibsen to O’Neill, Rice and Anderson. Prerequisite, English Composition 1. Three hours per week. Three semester hours.

36. Modern Drama

A reading and discussion course in contemporary European dramatists, movements, and genres since World War II. Prerequisite, English Composition 1. Three hours per week. Three semester hours.

Courses 35 and 36 are offered in alternate years.

40. Senior Seminar

A study of key works and major trends in English and American literature. Open only to senior English majors. Three hours per week. Three semester hours.

FINE ARTS

1. Appreciation of the Fine Arts

An integrated study of the visual, audio and performing arts. Three hours per week. Three semester hours.

2. Appreciation of the Fine Arts

A continuation of Fine Arts 1. Prerequisite: Fine Arts 1. Three hours per week. Three semester hours.

3. Painting and the Plastic Arts

Theory of painting and the plastic arts. Prerequisite: Fine Arts 1, 2, or History 27 and 28. Three hours per week. Three semester hours.

4. Painting and the Plastic Arts

A continuation of Course 3. Prerequisite: Fine Arts 1, 2 or History 27, 28. Three hours per week. Three semester hours.

See also History 27, 28, History of Art.

FRENCH

See under Romance Languages

GEOGRAPHY

1. Geography

Extensive study of the major regions of the world. The purpose is to analyze each from the standpoint of climate, natural resources, and economic problems, and to give the student a fairly detailed knowledge of the physical geography of the regions. Three hours per week. Three semester hours.

*This course is not offered in 1968-1969.
GEOLOGY

VISITING PROFESSOR BOGERT

The science of geology presents to the student the fundamental concepts of the earth and its relationships to the economic and cultural worlds of man.

1. Physical Geology
   MR. BOGERT
   The analysis of earth materials, structures, and processes that form the earth's surface. Two hours of lecture and two hours of laboratory work per week. Three semester hours.

2. Historical Geology
   MR. BOGERT
   A systematic study of the earth's historic events as recorded by geologic processes and organic evolution. Two hours of lecture and two hours of laboratory work per week. Three semester hours.

GERMANIC AND SLAVIC LANGUAGES

PROFESSOR HARTZELL   ASSISTANT PROFESSOR TEUNE
PROFESSOR RICE   MR. GEIGER

The Department of Germanic and Slavic Languages strives to encourage the student to make active use of the languages studied, and the reading material is chosen with the principles of the College in mind.

GERMAN

Students majoring in German must take the following courses: German 5, 6; 7, 8; 9, 10; and 13-14; twelve (12) semester hours study in another language.

1. Elementary German
   DR. RICE
   Complete coverage of grammar and practice in using the language. Three hours per week. Three semester hours.

2. Elementary German
   DR. RICE
   Continuation of German 1. Should not be taken separately. Three hours per week. Three semester hours.

3. Intermediate German
   DR. HARTZELL, MR. GEIGER
   Grammar review. Composition and conversation, together with reading of more difficult prose and poetry. Practice in laboratory. Three hours per week in class. One hour per week in the language laboratory. Three semester hours.

4. Intermediate German
   DR. HARTZELL, MR. GEIGER
   Continuation of German 3. The student is encouraged to develop facility in reading, writing and speaking German. Readings in Scientific German are included. Practice in the language laboratory is continued. Three hours per week in class. One hour per week in the language laboratory. Three semester hours.

5. Advanced German Reading
   DR. HARTZELL
   Reading of material which will give background for the understanding of Goethe's Faust. Three hours per week. Three semester hours.

6. Goethe's Faust
   DR. HARTZELL
   A careful study of the text of Goethe's Faust I and parts of Faust II and the Urfaust. Three hours per week. Three semester hours.
COURSES OF INSTRUCTION

7. Seminar in Literature of the Eighteenth Century.  

DR. HARTZELL  
The works of Klopstock & Lessing are studied. Three hours per week. Three semester hours.


DR. HARTZELL  
The works of Goethe & Schiller are studied. Three hours per week. Three semester hours.


DR. HARTZELL  
Authors studied include Kleist, Hebbel, Grillparzer. Three hours per week. Three semester hours.

10. Seminar in Literature of the Twentieth Century.  

DR. HARTZELL  
A careful reading of representative works of the Twentieth Century, including those of Gerhart Hauptmann, Kafka, Wedekind, Brecht, Dürrenmatt. Three hours per week. Three semester hours.

11. Scientific German  

DR. RICE  
Reading of texts in scientific fields. Special attention is given to techniques of translation. Two hours per week. Two semester hours.

12. Scientific German  

DR. RICE  
Continuation of German II. Readings in scientific journals, or original scientific works. Individual consultations. Two hours per week. Two semester hours.

13. Writing and Speaking German  

MR. GEIGER  
Practice in the oral elements of the language; written composition. Three hours per week, plus three periods per week of laboratory. Three semester hours.

14. Writing and Speaking German  

MR. GEIGER  
Continuation of German 13. Increased emphasis upon speaking German. Three hours per week, plus three periods per week of laboratory. Three semester hours.

SWEDISH

Study of Swedish will not fulfill the College general requirement of language for graduation.

1. Swedish for Beginners  

DR. RICE  
Grammar, easy reading and composition. Lectures on cultural background. Three hours per week. Three semester hours.

2. Intermediate Swedish  

DR. RICE  
Reading and composition. Students completing this course will be able to read Danish and Norwegian as well as Swedish. Three hours per week. Three semester hours.

3. Advanced Swedish  

DR. RICE  
Readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. Three semester hours.

4. Advanced Swedish  

DR. RICE  
Continuation of Swedish 3. Three hours per week. Three semester hours.

*This course is not offered in 1968-1969.
RUSSIAN

1. Elementary Russian
   Grammar, conversation, reading. Three hours per week. *Three semester hours*.

2. Elementary Russian
   Continuation of Russian 1. Emphasis upon reading and conversation. Three hours per week. *Three semester hours*.

3. Intermediate Russian
   Grammar review, reading, conversation. Three hours per week. *Three semester hours*.

4. Intermediate Russian
   Continuation of Russian 3. Emphasis upon reading and conversation. Three hours per week. *Three semester hours*.

GREEK

See under *Classical Languages*

HEALTH AND PHYSICAL EDUCATION

PROFESSOR BAILEY
PROFESSOR SNIFFLE
ASSOCIATE PROFESSOR GURZYNISKI

ASSISTANT PROFESSOR WHATLEY
ASSISTANT PROFESSOR BOYD
MRS. POLEY

The Health and Physical Education Department serves dual functions: (1) to provide for all students a diversified Service Program of activities, and (2) to offer to those students interested in majoring in the field, a comprehensive Professional Program in Health and Physical Education leading to teaching certification in these areas.

Included in the Service Program are the required two-hour freshmen classes in basic activities, the optional organized intramural programs for men and women, and the provision of recreational facilities for use of all students in their leisure time.

The Professional Program is a four-year course, offering, within the framework of a broad Liberal Arts education, the opportunity to receive specific training in the field of Health and Physical Education. Implicit in its objectives are the development of the total individual in knowledge, skills, habits and attitudes, the development of social and professional competencies, the growth of insight, independent thought, initiative and leadership, and the evolution of a dynamic ethical philosophy.

Students majoring in Health and Physical Education must take the following courses: Physical Education 31, 32 (m) or 32 (w), 43, 44, 51, 52, 54, 55, 56, 57, 58, 61, 62, 64; 301, 302, 303, 304, 305, 306, 307, 308; Biology 3, 4; 17, 18; Psychology 1, 8. Students preparing for teaching also must take prescribed education courses.

SERVICE COURSES

MR. WHATLEY, MISS BOYD

101, 102. A basic course offering a variety of seasonal games and skills. Its aims are to develop basic skills, improve physical fitness, provide enjoyment and relaxation and to develop recreational and social competence through participation in stimulating activities. *This course is a requirement for graduation for all students except those majoring in physical education and must be completed in the first year. Two hours per week.* Not a credit course.
PROFESSIONAL COURSES

HEALTH AND PHYSICAL EDUCATION

31. Principles and History of Physical Education
MISS SNELL
An orientation course designed to give the student an understanding of the meaning, basic philosophies, principles, and problems of physical education; an analysis of its historical background from the era of primitive man to modern times. Three hours per week. *Three semester hours.*

32m. Personal and Community Health (Men students only)
MR. GURZYNSKI
A study of factors affecting the physical, mental, and social well-being of the individual and of the community. Major emphasis is placed upon problems of personal health including disease prevention and the understanding of the functioning of the human body. Three hours per week. *Three semester hours.*

32w. Personal and Community Health (Women students only)
MISS SNELL
Subject matter and presentation as for Physical Education 32m. Three hours per week. *Three semester hours.*

43. Community Recreation Programs
MR. BAILEY
A comprehensive analysis of the leisure-time problem. An examination of the nature, scope, need, and function of community recreation programs, and of the social and economic forces affecting them. Three hours per week. *Three semester hours.*

44. Problems and Materials of Health and Safety Education in School Programs
MISS BOYD
The scope, responsibility, and function of the health education program in the school with particular stress upon the phases of healthful school living, health service, and safety education. Resource materials are studied and compiled. Two hours per week. *Two semester hours.*

51. Kinesiology
MR. GURZYNSKI
An anatomical analysis of the mechanics of body movement and position. A study of the fundamental anatomical concepts in relation to the development of physical education skills. Prerequisite, Biology 17, 18. Two hours per week. *Two semester hours.*

52. Physiology of Activity
MR. GURZYNSKI
The physiological phenomena underlying physical activity. The anticipatory, immediate, and after effects of exercise on the different organs and the organism as a whole. Class discussion and laboratory demonstration. Prerequisite, Biology 17, 18. Two hours per week. *Two semester hours.*

54. First Aid and Care and Prevention of Athletic Injuries
MISS BOYD
This course deals with the causes, preventive procedures and emergency treatment for all types of common injuries and with those injuries specifically incident to athletic competition. Conditioning exercises, diet and various therapeutic aids are studied. Laboratory practice includes bandaging, taping, massage, and the clinical use of physical therapy equipment. This work may lead to the Red Cross Advanced First Aid certificate. Two hours per week. *Two semester hours.*

55. Principles and Methods of Teaching Physical Education
MISS SNELL
Principles, methods, and problems of teaching physical educational activities at the elementary and secondary school levels, lesson planning, unit and curriculum construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. *Two semester hours.*
56. Methods of Health Instruction

Analysis of the principles, materials, and methods involved in the teaching of health at different age levels. Lesson plans and units construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. **Two semester hours.**

57. Principles and Methods of Coaching and Officiating

This course is designed with particular reference to the needs of prospective coaches and officials. Opportunities are given for practice in coaching and officiating. Two classroom hours and one hour of practice per week. **Two semester hours.**

58. Principles and Methods of Coaching and Officiating

Continuation of Physical Education 57. Two hours per week. **Two semester hours.**

61. Tests and Measurements in Physical Education

This course aims to familiarize the student with the nature, function and history of specific tools of measurement in the field of physical education and to give him working knowledge and experience in the use of essential statistical procedures. Three hours per week. **Three semester hours.**

62. Administration of Health, Physical Education, and Recreation

A study of the administrative problems in health education and physical education. Two hours per week. **Two semester hours.**

64. Corrective and Adaptive Physical Education

An analysis of conditions affecting the development of atypical children; methods for selecting and classifying such individuals, with particular attention to the adaptation of activities to meet their needs. Three hours per week. **Three semester hours.**

4. Leadership in Camp and Club Activities

Discussion of the principles, characteristics, and processes of leadership in light of their significance to directors of camp and club activities. Three hours per week. **Three semester hours.**

**ACTIVITIES COURSES**

301, 302. First Year Activities

Physical Education activities of a seasonal nature comprise the major content of this course with greatest stress laid on team sports. All activities are analyzed from the teaching standpoint. Students are given opportunities for self evaluation and for creative and teaching experiences. Six hours per week. **Four semester hours.**

MEN: Football, soccer, tennis, basketball, baseball, track and field, volleyball, marching tactics, tumbling, calisthenics, apparatus, square, folk and social dancing, and body mechanics.

WOMEN: Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, marching tactics, tumbling, calisthenics, rhythmic, square, folk and social dancing, and body mechanics.

303, 304. Second Year Activities

A continuation of Course 301 and 302 with some additional activities. More stress is placed on teaching and on the development of advanced skills and team strategies. Six hours per week. **Four semester hours.**
MEN: Football, soccer, speedball, tennis, volleyball, baseball, track and field, boxing, wrestling, marching tactics, tumbling, calisthenics, apparatus, tap dancing.

WOMEN: Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, archery, campcraft, canoeing, low organized games, rhythmic calisthenics, tumbling, apparatus, tap dancing. Consideration is given to the role of the rhythmic activities in the program and to the selection and sources of dance materials.

305, 306. Third Year Activities

More time is devoted to individual sports with continuing emphasis upon the teaching and analysis of skills and strategies, and upon the role of these activities in the physical education program. Opportunity is given in modern dance for original composition. Six hours per week. Four semester hours.

MEN: Archery, golf, riding, tennis, lacrosse, canoeing, badminton, boxing, wrestling, swimming, apparatus.

WOMEN: Archery, golf, riding, tennis, lacrosse, canoeing, badminton, swimming, modern dance, apparatus.

307, 308. Fourth Year Activities

A continuation of Course 305 and 306 at a more advanced level. Bowling and life-saving and for women synchronized swimming are offered as additional activities. Three hours per week. Two semester hours.

NOTE: Sophomore, junior, and senior women may attend a pre-session camp which offers activities in partial fulfillment of these requirements.

Professional courses offered by the Department of Health and Physical Education are designed for students majoring in Health and Physical Education. Students in other majors may elect such courses but, except for Course 32m or 32w, academic credit will be withheld until the student has completed the general college requirements, his departmental requirements, and has earned a total of one hundred twenty semester hours credit. An exception will be made in the case of a student who wishes to have Health or Physical Education written upon his teaching certificate in addition to another subject matter certification. In such a case, academic credit will be given within the one hundred twenty hour limit. Students should consult the Education Department to learn the exact certification requirements of a particular state.

HISTORY

**PROFESSOR ARMSTRONG**

**ASSOCIATE PROFESSOR PARSONS**

**PROFESSOR DONALD BAKER**

**ASSISTANT PROFESSOR FERGUSON**

**PROFESSOR E. H. MILLER**

**MR. WALDO**

**ASSOCIATE PROFESSOR DAVIS**

**MR. AMARASINGHAM**

The objectives of the History Department are to provide an opportunity for students to understand the backgrounds of Western culture and their relationships to other cultures through a knowledge of pertinent historical material, and to become acquainted with the methods of historical research and analysis.

In addition to History 1, 2, students majoring in history must take Course 13, 14; six additional semester hours of European history; eleven semester hours in elective history courses, including one seminar; Economics 3, 4; Political Science 1, 2; Sociology 1; English Literature 3, 4 or 19, 20; and Psychology 1.

**Died November 21, 1967**
1. European Civilization

STAFF

An introductory history of ideas and institutions in European Civilization for the purpose of providing a general historical background for other courses and for an understanding of contemporary world affairs. Two lectures and one section meeting per week. Three semester hours.

2. European Civilization

STAFF

Prerequisite, History I. Continuation of Course 1. Two lectures and one section meeting per week. Three semester hours.

3. Medieval Institutions

A study of selected economic, social, cultural, religious, and political institutions essential to the understanding of the period from the fall of Rome to the Renaissance. This course not open to first-year students. Three hours per week. Three semester hours. (Alternates with 27.)

4. The Renaissance and the Reformation

A study of humanism and religion in the 15th and 16th centuries. This course not open to first year students. Three hours per week. Three semester hours. (Alternates with 28.)

5. The Age of Enlightenment

MR. DAVIS

The development of the European state system 1648-1815, the Enlightenment, the French Revolution and the Napoleonic Era. Not open to first-year students. Three hours per week. Three semester hours. (Alternates with 21.)

6. The Age of Romanticism

MR. DAVIS

European romanticism and nationalism 1815-1870. Not open to first-year students. Three hours per week. Three semester hours. (Alternates with 22.)

7. The Twentieth Century

MR. WALDO

A study of the impact of industrialization, neo-imperialism, and nationalism upon the European peoples and their overseas empires in the years leading up to and directly following the first World War. Not open to first-year students. Three hours per week. Three semester hours.

8. The Twentieth Century

MR. WALDO

A continuation of course 7 covering the events leading up to and following the second World War and the problems of contemporary world history. Not open to first year students. Three hours per week. Three semester hours.

9. England and the British Empire

DR. FERGUSON

A history of the British people with special attention to political and constitutional developments to 1600. Three hours per week. Three semester hours. (Alternates with II.)

10. England and the Empire — Commonwealth

DR. FERGUSON

A continuation of Course 9 with special attention to political and imperial developments since 1600. Three hours per week. Three semester hours. (Alternates with 12.)

11. British Social History

DR. FERGUSON

A study of the daily life of the British people. Three hours per week. Three semester hours. (Alternates with 9.)

12. British Social History

DR. FERGUSON

A continuation of Course 11. Three hours per week. Three semester hours. (Alternates with 10.)

*This course is not offered in 1968-1969.
13. The United States of America  
DR. PARSONS  
Political and cultural history from colonial status to World Power with special emphasis on Pennsylvania. This course is prescribed for all students majoring in history and for any others who are preparing to teach social studies. Three hours per week. Three semester hours.  
14. The United States of America  
DR. PARSONS  
A continuation of Course 13. Prescribed for all students majoring in history and for any others preparing to teach social studies. Three hours per week. Three semester hours.  
15. American Diplomatic History  
MR. DAVIS  
A study of American diplomacy from the treaty of 1783 to the present, including an analysis of the various factors which determine that policy: public opinion, population, world markets and international organization. Three hours per week. Three semester hours. (Alternates with 25.)  
16. Economic and Social History of the United States and Pennsylvania  
DR. PARSONS  
Economic foundations and social change in the United States with intensive study of Pennsylvania. Three year cycle of topics. Students may elect each topic for separate credit. This course is not open to first year students.  
°16a. Colonial America. Three hours per week. Three semester hours.  
°16b. Civil War. Three hours per week. Three semester hours.  
16c. Westward Movement. Three hours per week. Three semester hours.  
°16d. Twentieth Century America. Three hours per week. Three semester hours.  
17. Latin America  
DR. E. H. MILLER  
Political and cultural backgrounds of South and Central American nations and their relation to the interests and policy of the United States. Three hours per week. Three semester hours. (Alternates with 23.)  
18. Latin America  
DR. E. H. MILLER  
A continuation of Course 17. Three hours per week. Three semester hours. (Alternates with 24.)  
19. Greek History  
DR. BAKER  
Studies in the political, social, and economic life of ancient Greece. Two hours per week. Two semester hours.  
20. Roman History  
DR. BAKER  
This course deals especially with the government of the Roman Republic, the transition to Empire, and the causes of its decline. Two hours per week. Two semester hours.  
21. The Middle East  
MR. DAVIS  
The ancient civilization of Egypt, Babylonia, Persia, Greece, and the Byzantine Empire. The Moslem World and the Middle East in modern times. Three hours per week. Three semester hours. (Alternates with 5.)  
22. The Middle East  
MR. DAVIS  
Prerequisite, Course 21. A continuation of Course 21. Three hours per week. Three semester hours. (Alternates with 6.)  
23. The Far East  
DR. E. H. MILLER  
History of the Asiatic Mainland and the Pacific Islands. Three hours per week. Three semester hours. (Alternates with 17.)  
*This course is not offered in 1968-1969.
24. **The Fast East**

A continuation of Course 23. Three hours per week. *Three semester hours.* (Alternates with 18.)

*25. **Russia**

Political and social history of Russia. Three hours per week. *Three semester hours.* (Alternates with 15.)

*26. **Canada**

The development of the Canadian people from colonial status to nationhood. Three hours per week. *Three semester hours.* (Given in alternate years.)

*27. **History of Art**

An introduction to the history of architecture, sculpture and painting, both Occidental and Oriental, presented by means of illustrated lectures and museum trips. Prerequisite, History 1, 2 or Philosophy 101, 102. Three hours per week. *Three semester hours.* (Alternates with History 3.)

*28. **History of Art**

A continuation of Course 27. Prerequisite, History 27. Three hours per week. *Three semester hours.* (Alternates with History 4.)

29. **Seminar in the History of Europe, or Asia, or Africa**

Preparation and discussion of research papers. Open to third-year and fourth-year students with the permission of the instructor. Two consecutive hours per week. *Two semester hours.*

30. **Seminar in the History of Asia, or Africa, or Europe**

Preparation and discussion of research papers. Open to third-year and fourth-year students with the permission of the instructor. Two consecutive hours per week. *Two semester hours.*

31. **Seminar in the History of America**

Preparation and discussion of research papers. Open to third-year and four-year students with the permission of the instructor. Two consecutive hours per week. *Two semester hours.*

32. **Seminar in the History of America**

Preparation and discussion of research papers. Open to third-year and fourth-year students with the permission of the instructor. Two consecutive hours per week. *Two semester hours.*

*The requirement for History 29 may be met by students who complete a special summer course of European travel and research conducted by a member of the Department of History of Ursinus College.*

**LATIN**

See under *Classical Languages*

*This course is not offered in 1968-1969.*
The general aims of the Department of Mathematics are (1) to give the students a grasp of the ideas and methods of mathematics; (2) to develop an understanding and appreciation of mathematics as an abstract deductive system; (3) to give the students an appreciation of the historical importance of mathematics in the progress of civilization, both past and present; and (4) to provide the students with sufficient skills to enable them to apply their knowledge to related fields of study.

For mathematics majors, the Department aims to provide stimulation and preparation for (1) continued study at the graduate level; or (2) effective teaching in the secondary schools; or (3) employment in industrial research, statistics, computing, or actuarial positions. For other majors, it seeks to provide the mathematical competence required by the increasing quantitative emphasis in many of these disciplines.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See p. 92.

A student majoring in Mathematics is required to take Physics 1, 2 and Mathematics 29, 30, 31, 33, and 34 and fifteen additional hours in Mathematics selected from the courses whose number are above 31.

Certain particular courses are recommended but not specifically required. For those preparing to be teachers — 35, 36, 37, 38, 41, 42. For those preparing to take post graduate work — 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45. For those preparing for engineering jobs in industry and for work in the computing field — 32, 35, 36, 39, 40, 41, 42.

1. Fundamentals of Modern Mathematics
   Dr. Lewis
   A treatment of the ideas that are especially pervasive in modern mathematics; sets, functions, operations, and relations; with emphasis on the logical structure of the number systems, algebra, and analytic geometry. Three hours per week. Three semester hours.

2. Fundamentals of Modern Mathematics
   Dr. Lewis
   A further development of modern mathematics with a greater emphasis on analysis, and the mathematical disciplines as illustrated in the study of transcendental functions, probability, statistics, and the calculus. Three hours per week. Three semester hours.

13. Statistics
   Dr. Lewis
   Statistical methods of studying data from the fields of economics, education and industry; probability, measure of central tendency, dispersion, skewness. Two hours per week. Two semester hours.

14. Statistics
   Dr. Lewis
   A continuation of course 13, correlation, analysis of variance, and methods of testing hypotheses. Two hours per week. Two semester hours. Prerequisite, Mathematics 13.

29. Analytic Geometry and Calculus
   Dr. Dennis
   An integrated study of analytic geometry and calculus with respect to functions of one variable. Three hours per week. Three semester hours.
30. **Analytic Geometry and Calculus**

A continuation of course 29, with applications to the fields of chemistry and physics. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 29.

31. **Intermediate Calculus**

A continuation of course 30, with emphasis on functions of more than one variable including three-dimensional geometry, partial differentiation and multiple integration. Study of infinite series; and applications to problems in engineering. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 30.

32. **Differential Equations**

A study of the methods of solving types of ordinary differential equations with applications to problems in the physical sciences. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 31.

33. **Linear Algebra**

An introduction to the important mathematical concepts of systems of linear equations, matrix theory, linear transformations on vector spaces, bilinear and quadratic forms. Three hours per week. *Three semester hours.*

34. **Linear Algebra**

A continuation of course 33 with emphasis on applications to Euclidean vector spaces of two and three dimensions. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 33.

35. **Modern Algebra**

An introduction to the modern mathematical systems of groups, integral domains, rings, and ideals, fields, and vector spaces. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 34.

36. **Modern Algebra**

A continuation of course 35, with extensions to linear groups, algebraic number fields, algebra of classes, Galois theory of equations. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 35.

37. **Modern Geometry**

A study of modern Euclidean geometry of the triangle and circle; inversion and polar reciprocation, isometry and similarity in Euclidean spaces, coordinate geometry, linear transformations and invariant theory. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 34.

38. **Modern Geometry**

A continuation of course 37, with emphasis on affine geometry, projective geometry, non-Euclidean geometry, differential geometry of curves and surfaces; and an introduction to topology. Three hours per week. *Three semester hours.*

39. **Advanced Calculus**

A theoretical treatment of the concepts of limits, continuity, partial differentiation, indeterminate forms, and infinite series; definitions and properties of the Stieltjes integral, multiple integrals, line and surface integrals. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 31.
40. **Advanced Calculus**  
MISS SCHULTZ  
A continuation of course 39, with an introduction to Gamma and Bessel functions. Fourier series, Laplace transforms, and applications to the solutions of differential equations. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 39.

41. **Probability**  
DR. LEWIS  
An introduction to probability theory; a study of discrete and continuous probability functions. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 2 or 29.

42. **Mathematical Statistics**  
MISS SCHULTZ  
This course emphasizes the essential mathematical background of modern statistics. It includes the mathematical development of sampling distributions; the theory and application of tests of hypotheses, regression and correlation, and analysis of variance. Three hours per week. *Three semester hours.* Prerequisites, Mathematics 31 and 41.

43. **Vector Analysis**  
DR. DENNIS  
Applications of vector calculus to geometry and physics; properties of scalar and vector fields, theorems on line and surface integrals, generalized coordinate systems and transformation theory. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 39, or simultaneously with Mathematics 39.

*44. **Theory of Numbers**  
DR. DENNIS  
Theory of primes and divisibility conditions; simple continued fractions, congruence theory, quadratic residues, diophantine equations. Three hours per week. *Three semester hours.*

*45. **Functions of a Complex Variable**  
DR. DENNIS  
An introduction to the theory of analytic functions, integrals of complex functions, conformal mapping, harmonic functions, Taylor's and Laurent's series, residue theory, geometry of elementary functions. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 39, or simultaneously with Mathematics 39.

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**MUSIC**  
PROFESSOR PHILIP  
MISS SPANGLER  
The program in music is designed to meet the needs of non-professional music students and to promote a wider knowledge and appreciation of the history, theory, and performance of great music. The program comprises classroom instruction and opportunities for individual and group participation.

A. **Theory of Music**

1. **Elementary Harmony**  
DR. PHILIP  
A thorough foundation in the melodic, rhythmic, and harmonic elements of music; keys, scales, intervals, cadences, major and minor chords; rhythmic reading and dictation, time durations, and the study of compound and simple measures. Prerequisite, one year of piano study or of musical theory. Two hours per week. *Two semester hours.*

2. **Elementary Harmony**  
DR. PHILIP  
A continuation of Music 1. Prerequisite, Music 1. Two hours per week. *Two semester hours.*

*This course is not offered in 1968-1969.*
B. Appreciation of Music

13. Appreciation of Music
   This course covers the early development of music through religious music, folk song
   and folk dance, and follows their progress to the larger forms of musical composition.
   Two hours per week. Two semester hours.

14. Appreciation of Music
   A continuation of Music 13. The further development of music is traced into the
   symphonic and operatic fields of composition. Prerequisite, Music 13. Two hours per
   week. Two semester hours.

C. History of Music

15. History of Music
   Introduction to choral and instrumental music of the ancient and medieval period.
   Two hours per week. Two semester hours.

16. History of Music
   A continuation of Music 15. This course deals with the music of the Eighteenth Cen-
   tury, the Romantic period, and the Twentieth Century. Prerequisite, Music 15. Two
   hours per week. Two semester hours.

*17. Opera and Orchestral Music
   A detailed analysis of symphonic music. Two hours per week. Two semester hours.

*18. Opera and Orchestral Music
   A detailed analysis of proven operatic compositions. Two hours per week. Two
   semester hours.

19. Music Dramas of Richard Wagner
   An intimate discussion and the detailed analysis of Wagner's works. Two hours per
   week. Two semester hours.
   Course 19 alternates with Courses 17, 18.

D. Musical Organization

21a, 22a. Band
   Participation in the marching and the concert band. Two hours per week. Not a
   credit course.

21b, 22b. Band
   Second year. Continuation of first-year work. Two hours per week. Not a credit course.

21c, 22c. Band
   Third year. Continuation of second-year work. Two hours per week. Not a credit course.

21d, 22d. Band
   Fourth year. Continuation of third-year work. Two hours per week. Not a credit course.

27a, 28a. Vocal Ensemble and Methods
   A study of the basic principles of ensemble technique, vocal characteristics, and various
   types of voices. Discussion and study of the musical literature of the different periods.
   Practical application of principles studied as well as participation with the Ursinus
   Meistersingers in public concerts. Two hours per week. Not a credit course but a
   prerequisite for Music 27b, 28b.

27b, 28b. Vocal Ensemble and Methods
   Second year. Continuation of first-year work. Two hours per week. Credit of one
   semester hour to be awarded at the conclusion of the year.

*This course is not offered in 1968-1969.
27c, 28c. Vocal Ensemble and Methods
Third year. Concentration of second-year work. Two hours per week. Credit of one semester hour to be awarded at conclusion of the year.

27d, 28d. Vocal Ensemble and Methods
Fourth year. Continuation of third-year work. Two hours per week. Not a credit course.

Not more than twelve semester hours in Music may be counted toward graduation.

PHILOSOPHY AND RELIGION

ASSISTANT PROFESSOR HINKLE
ASSISTANT PROFESSOR DAVID BAKER
ASSOCIATE PROFESSOR CREAGER
ASSISTANT PROFESSOR FERGUSON
MR. HARDMAN

The Department of Philosophy and Religion seeks to cultivate the student's informed awareness and critical appraisal of philosophical perspectives, and to give him opportunity for a scholarly and appreciative study of historic as well as contemporary religious insights. In this manner the department strives to translate into the terms of today's academic needs the traditional roles both disciplines have played in liberal education.

Courses in Philosophy are open to third-year and fourth-year students with the exception of Courses 101 and 102. Courses 101 and 102 are open also to second-year students, and are designed for students who do not plan to elect specialized courses in Philosophy. Although Religion courses are open to all students, normally they are taken by third-year and fourth-year students.

Students majoring in Philosophy and Religion are given (1) a comprehensive review of the fundamental subject matter of both disciplines, (2) an introduction to several derivative disciplines through their pursuit of an Area of Concentration in related fields, and (3) an opportunity to integrate their understanding of Philosophy and Religion by means of a Senior Seminar and a Comprehensive Examination.

Majors must take Philosophy 101, 102, 103, 104, 106 and 107; Religion 1 and 2; and Philosophy and Religion 109, 110. In addition, they may choose between Religion 6 or 8 and History 4, and between Philosophy 105 and History 27, 28. Each major also must elect fifteen hours of course work in one of four Areas of Concentration, each of which is viewed as giving explicit expression to certain traditional types of philosophical inquiry and religious reflection. The four areas are:

A — English 21; History 19, 20; Greek 1-8; Latin 1-12
B — History 27, 28; English 15, 17, 18; Music 13, 14, 15-19; Fine Arts 1, 2
C — Mathematics 1, 2, 29, 30; Music 1, 2; Psychology 32; English 13, 14, 22
D — Psychology 40; Sociology 1, 2; Political Science 7, 10;
    Economics 21; Biology 22

With the approval of the adviser a major may make certain substitutions in the area he chooses.

101. History of Ancient and Medieval Philosophy

A survey of the evolution of reflective thought in the Western World from Thales to Descartes. Course 101 is open to all students.

Three hours per week. Three semester hours.
102. *History of Modern Philosophy*  
DR. HINKLE, DR. FERGUSON  
A survey of developing reflective thought in the Western World, beginning with Descartes and including several representative contemporary philosophers. Course 102 is open to all students.  
Three hours per week. *Three semester hours.*

103. *General Problems of Philosophy*  
DR. HINKLE  
A study designed to orient the student with reference to perennial problems of philosophical inquiry. Intensive use is made of primary sources.  
Three hours per week. *Three semester hours.*

104. *Modern Philosophical Problems*  
DR. HINKLE  
A study of certain problems outlined in Course 103 and inherent in a specific philosophy of nineteenth or twentieth-century origin. As in Course 103, intensive use is made of primary sources.  
Three hours per week. *Three semester hours.*

104a. *Nineteenth Century Idealism and Romanticism*  
104b. *Twentieth Century Existentialism and Linguistic Analysis*  
104c. *Nineteenth and Twentieth Century American Philosophy*

105. *Ethics*  
DR. HINKLE  
A study of the principles of moral judgment, with exposition and criticism of the more important theories concerning the basic distinction between right and wrong conduct; the various problems of theoretical and practical ethics.  
Three hours per week. *Three semester hours.*

106. *Logic*  
DR. HINKLE  
A study of the guiding principles involved in correct thinking, the use of terms; classification; the nature of deductive inference with special reference to fallacious forms of reasoning as they receive expression in daily life; the canons of inductive inference; the basic concepts in scientific method.  
Three hours per week. *Three semester hours.*

107. *Philosophy of Religion*  
DR. CREAGER, DR. BAKER  
A philosophical study of religious beliefs and practices in order to ascertain the nature and value of religion. Particular attention is given to questions involving the nature and reality of God, the problem of evil and suffering, free will, and immortality.  
*Offered in both terms.* Three hours per week. *Three semester hours.*

109. *Senior Seminar: Current Issues and Movements in Religion*  
THE STAFF  
A study of contemporary theological and institutional trends in Religion, making use of lectures, discussions, research papers, etc. Course 109 is open only to majors in the field of Philosophy and Religion.  
Two hours per week. *Two semester hours.*

110. *Senior Seminar: Current Issues and Movements in Philosophy*  
THE STAFF  
A study of contemporary thinkers and schools of thought in Philosophy, making use of lectures, discussions, research papers, etc. Course 110 is open only to majors in the field of Philosophy and Religion.  
Two hours per week. *Two semester hours.*

*This course is not offered in the Spring Term of 1969.*
1. Introduction to the Literature of the Bible: Old Testament  
Mr. Hardman  
An appreciative and historical study of the Bible, with a view to discovering its origin, nature, and significance in the life of today. Three hours per week. Three semester hours.

2. Introduction to the Literature of the Bible: New Testament  
Mr. Hardman  
Three hours per week. Three semester hours.

6. History of the Christian Church  
Dr. Creager  
A study of the development of the Christian church from the apostolic period to modern times, with a view to understanding the nature and extent of its contribution to society.

8. Classics of the Living Religions  
Dr. Creager  
Reading and discussion of substantial portions of the classic literature of Hinduism, Buddhism, Chinese Religion, Judaism, Christianity, and Islam. The aim of the course is to gain understanding of these religions by examination of basic sources and to discover differences and similarities among them. Three hours per week. Three semester hours. (Alternates with 6.)

PHYSICAL EDUCATION  
See under Health and Physical Education.

*This course is not offered in the Spring Term of 1969.
The courses in Physics are designed to furnish the student with a groundwork of as much of the material of physics as time will permit. Stress is laid upon methods of analysis and presentation of ideas. It is hoped in this way to make the student conversant with the methods of Physics, to develop in him the ability to study independently and to transmit his ideas to others.

Students majoring in Physics must take the following courses: CMP 267-1, 2; Physics 3, 4, 5, 6, 7, 8; Mathematics 31, 32, 39, 40, 43, 45.

Students majoring in Physics who are preparing to teach in secondary schools may substitute courses in Education for the following courses: Physics 7, 8; Mathematics 32.

**NOTE:** Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See p. 92.

1. **General Physics**
   - **Elementary mechanics and heat.** Physics is presented not only as a science having practical application to everyday life, but as an example in itself of general scientific method. Prerequisite, Mathematics 1, 2, or high-school trigonometry and a satisfactory rating in the Mathematical Aptitude section of the CEEB test or in some test of a similar nature. Although not a requirement, Mathematics 29 and 30 are strongly urged, to be pursued concurrently if not already completed. Three hours lecture and three hours laboratory per week. *Four semester hours.*

2. **General Physics**
   - **Elementary sound, light, electricity and magnetism.** Prerequisite, Physics 1. Three hours lecture and three hours laboratory per week. *Four semester hours.*
   - **Admission to advanced courses depends upon the quality of work done in the elementary course.**
   - **Students intending to elect any of the advanced courses are asked to confer with the instructor during the year prior to that in which the course is to be taken, in order that a satisfactory schedule may be arranged.**

3. **Mechanics: Statics and Dynamics**
   - **Plane and space force systems; concurrent forces; moments; center of gravity; friction; motion; curvilinear motion; projectiles; D'Alembert's Principle; moment of inertia; equilibrium of a rigid body; kinematics; Newton's Laws; work and energy; harmonic motion; rotation about a fixed axis; torsion pendulum; compound pendulum; coupled systems.** Prerequisite, Mathematics 29 and 30. Three hours lecture and three hours laboratory per week. *Four semester hours.*

4. **Electricity and Magnetism**
   - **Gauss's Theorem; potential; capacity; electric and magnetic circuit; Kirchhoff's Laws; inductance; alternating currents; electrical machinery; elements of electronics.** Prerequisite, Mathematics 29 and 30. Three hours lecture and three hours laboratory per week. *Four semester hours.*

5. **Optics**
   - **Image formation, systems of lenses and mirrors; dispersion; spectra; interference and diffraction; polarization; origin of radiation; effects of radiation; applications.** Three hours of lecture and three hours laboratory per week. *Four semester hours.*
6. **Sound**  
DR. HEILEMANN  
The nature of sound, the physical basis of music, speech, and hearing; acoustics of buildings; methods of sound transmission and reproduction, and study of distortion; diffraction and interference; applications. Three hours lecture and three hours laboratory per week. *Four semester hours.*

7. **Modern Physics**  
DR. SNYDER  
The elementary charged particles; electromagnetic radiation; waves and particles; elementary theory of the hydrogen atom; atomic spectra and electron distribution; natural radioactivity; nuclear disintegration; nuclear energy. Prerequisite, Mathematics 31. Three hours per week. *Three semester hours.*

7a. **Laboratory in Modern Physics**  
DR. SNYDER  
Laboratory work (optional) for Course 7. Three hours per week. *One semester hour.*

8. **Modern Physics**  
DR. SNYDER  
Continuation of Course 7. Three hours per week. *Three semester hours.*

8a. **Laboratory in Modern Physics**  
DR. SNYDER  
Laboratory work (optional) for Course 8. Three hours per week. *One semester hour.*

11. **General Astronomy**  
MR. MARSTELLER  
The Earth as an astronomical body; description and determination of celestial coordinates and time; optical principles and forms of the telescope and spectroscope; fundamentals of spectroscopy; the Moon and its motions; eclipses, the constellations. Prerequisites: Mathematics 1 and 2 or their equivalent and some knowledge of Physics. *Three semester hours.*

12. **General Astronomy**  
MR. MARSTELLER  
Continuation of Course 11. Description and dynamics of the Solar System: Kepler's laws, Newton's laws, historical notes. The sidereal universe: stellar designations and catalogs, notes on the literature of Astronomy, the Sun as a star, stellar motions, the constitution and evolution of the stars; the Galaxy. Prerequisite, Physics 11. *Three semester hours.*

14. **Alternating Currents**  
DR. SNYDER  
Capacitative and self-inductive circuits; mutual induction; the alternating-current circuit; alternating-current power and power factor; divided circuits; application of complex numbers; electro-magnetic waves. Prerequisites, Physics 4 and Mathematics 31. Three hours per week. *Three semester hours.*

15. **Elements of Mathematical Physics**  
DR. SNYDER  
Introduction to selected concepts and techniques of theoretical physics; vector and tensor analysis, differential equations, LaGrange's equations, Laplace transforms, Fourier analysis, boundary value problems for the diffusion equation, heat flow equation, wave equation, calculus of variations. Prerequisites, Physics 1, 2, 3, 4; Mathematics 29, 30. Mathematics 39, 40 and 43 although not prerequisites should be pursued concurrently. Two hours per week. *Two semester hours.*

16. **Elements of Mathematical Physics**  
DR. SNYDER  
Continuation of prerequisite Course 15. Two hours per week. *Two semester hours.*

17. **Seminar**  
STAFF  
Study and discussion of advanced topics or recent developments in physics. Registration for this course must be in consultation with the chairman of the department. *Two semester hours.*

18. **Seminar**  
STAFF  
Continuation of Course 17. *Two semester hours.*

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109. Research
Investigations, of experimental or theoretical nature, pursued independently by the student. The preparation of a summarizing report is required. To register for this course a student must have the consent of a member of the physics staff to serve as his adviser. One semester hour.

110. Research
Continuation of Course 109. One semester hour.

209. Research
Same as Course 109, but more extensive in scope. Two semester hours.

210. Research
Continuation of Course 209. Two semester hours.

POLITICAL SCIENCE

*PROFESSOR E. H. MILLER
PROFESSOR PANCOAST
ASSOCIATE PROFESSOR ZUCKER
MR. AMARASINGHAM
MR. BERNSTEIN

The objectives of the Department of Political Science with relation to the general student are:

(1) To help the student attain an appreciation of both the theory and the functioning of politics.
(2) To aid the student in developing the faculty of critical thinking.
(3) To familiarize the student with those values that sustain freedom.

The professional objectives are:

(1) To prepare students for graduate work in political science and the law.
(2) To prepare students for the examinations for both the domestic civil service and the foreign service.

In addition to Political Science 1, 2, students majoring in Political Science must take course 5, 6; ten semester hours in elective Political Science courses; History 1, 2; History 13, 14; Economics 3, 4; Psychology 1 and Sociology 1, 2.

It is recommended that Political Science 1, 2 be taken in the first year, Political Science 5, 6 and Economics 3, 4 in the second year and Sociology 1, 2 and History 13, 14 in the third year.

1. American Government  
An analysis of the structure and functions of American national and state governments. Three hours per week. Three semester hours.

2. American Government  
Continuation of Course 1. Three hours per week. Three semester hours.

3. Municipal Government and Administration  
The legal power and position of the city and other local governmental institutions in our political system. Thorough consideration of forms and activities of local government. Three hours per week. Three semester hours.

*On leave of absence.
4. **Political Parties**

Both structural description and functional analysis of American political parties. The organization, work, leaders, and place of political parties in our democracy are considered at length. Three hours per week. *Three semester hours.*

5. **Comparative Government**

A detailed comparison of the Cabinet and Presidential systems, as exemplified by England and the United States. Three hours per week. *Three semester hours.*

6. **Comparative Government**

The study is extended to other representative governments, including France, Germany, Italy, Russia and Japan. Three hours per week. *Three semester hours.*

7. **Political Theory**

Significant political ideals, forces, and concepts from Plato to the present. Three hours per week. *Three semester hours.*

8. **Constitutional Law**

General principles of constitutional law as enunciated through the judicial process. Extensive use of cases on the federal system, the distribution of governmental power and the limitations on governmental power in the areas of personal liberty and property rights. Three hours per week. *Three semester hours.*

9. **Public Administration**

A survey of the field of public administration, emphasizing administrative organization, fiscal management, and personnel management. The administrative process is considered as a unit encompassing federal, state, and local administration. Three hours per week. *Three semester hours.*

10. **American Political Theory**

Main currents in American political thought from the seventeenth century to the present. Three hours per week. *Three semester hours.*

11. **Seminar in Political Science**

Selected topics in international organization and international relations. Two hours per week. *Two semester hours.*

12. **Seminar in Political Science**

Continuation of Seminar in Political Science 11. Two hours per week. *Two semester hours.*

13. **Seminar in Political Science**

International Law. The case-study method. Two hours per week. *Two semester hours.*

14. **Seminar in Political Science**

Continuation of Seminar in Political Science 13. Two hours per week. *Two semester hours.*

Courses 11, 12 alternates with Courses 13, 14.

*This course not offered in 1968-1969.

†Open only to third-year and fourth-year students.
PSYCHOLOGY

PROFESSOR FLETCHER

ASSISTANT PROFESSOR RIDGE

ASSISTANT PROFESSOR PEASTREL

The Department of Psychology is guided in its offerings and activities by two sets of objectives: (1) For the student majoring in areas other than Psychology, the introductory course for all, and Abnormal Psychology and Mental Hygiene for many, endeavor to show the growth of modern psychology and an understanding of adjustments used in maintaining mental health; and (2) an attempt is made to present a composite view of the main phases of present-day psychology, which is based on a broad foundation in social science and the biological sciences.

Students majoring in Psychology must take the following courses: Biology 3, 21, 22; Mathematics 1, 2, 13, 14; Economics 3, 4; Political Science 1, 2; Psychology 1, 8, 9, 10, 12, 31, 32, 40 and 44. Students who plan to continue the study of Psychology at the graduate level are strongly urged to include in their schedules Mathematics 29, 30; Biology 17, 18; Philosophy 3, 4 and Physics 1, 2.

1. *Elementary Psychology*  
   DR. FLETCHER, DR. RIDGE, DR. PEASTREL  
   An introductory study of mental life and accompanying types of human behavior. Three hours per week. Psychology 1 is a prerequisite for all other psychology courses. Three semester hours.

   Course 1 must be taken during the first semester of the second year by all students preparing to become teachers.

8. *Mental Health and Abnormal Psychology*  
   DR. FLETCHER, DR. RIDGE, DR. PEASTREL  
   The problem of mental health is treated under the following topics: The dynamics of human behavior, normal and abnormal reactions to frustration and conflict. Psychological, organic, and social causes of poor mental health. The roles played by the home, the school, and society in mental health. Additional topics include psychoneuroses and functional psychoses, epilepsy, drug addiction, and alcoholism. Methods of prevention and treatment of mental illness are discussed. This course is given from the point of view of preventive mental hygiene. Prerequisite, Course 1. Three hours per week. Three semester hours.

9. *Educational and Psychological Tests and Measurements*  
   DR. FLETCHER  
   An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, Courses 31, 32. Prerequisite, Course 1. Three hours per week. Three semester hours. (The same course as Education 9.)

10. *Elementary Experimental Psychology*  
    DR. RIDGE  
    This course is designed to acquaint the student with laboratory techniques used in psychology. Limited to and required of all majors in psychology. Lectures, demonstrations, individual experiments and the preparation of scientific reports. Prerequisite, Course 1. Three hours lecture and two hours laboratory. Four semester hours.

12. *Psychology in Industry*  
    DR. FLETCHER  
    This course deals with the application of psychological techniques and principles to the problems of industry. Emphasis is given to individual differences, aptitudes and skills, job evaluation, merit rating, work methods, training programs, fatigue, accident control, safety education, incentives, employee attitudes, morale, the interview and related employment methods. Prerequisite, Course 1; Mathematics 13, 14. Three hours per week. Three semester hours.
31. *Educational Psychology—Growth and Development*  
**DR. FLETCHER, DR. RIDGE**  
The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional, and social growth from the prenatal period until old age. The development of attitudes, interests, and values. The ideal of an integrated personality. *(The same course as Education 31.)* Prerequisite, Course I. *Three hours per week. Three semester hours.*

32. *Educational Psychology—Learning and Teaching*  
**DR. FLETCHER, DR. RIDGE**  
The role of the teacher as a professional person. The basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. *(The same course as Education 32.)* Prerequisite, Course I. *Three hours per week. Three semester hours.*

40. *Social Psychology*  
**DR. RIDGE**  
A study of group action and of the group influences by which the individual is surrounded; tradition, custom, public opinion, and other psychological and social forces which affect individual judgment and action. Prerequisite, Course I and 32. *Three hours per week. Three semester hours.*

44. *Seminar in Psychology*  
**DR. FLETCHER**  
A course designed to acquaint the student with current trends in theoretical and applied psychology. Emphasis will be given to the preparation and presentation of papers on selected topics which will vary from year to year. Open only to fourth-year students majoring in psychology. Prerequisite, Course I. *One hour per week. One semester hour.*

**PUBLIC SPEAKING**

1. *Public Speaking*  
**MR. EHRlich**  
The composition and delivery of speeches designed to inform, persuade, stimulate, and entertain, with group analysis and criticism. Students will also be required to deliver impromptu speeches and participate in panel discussions on topics of current cultural and social interest. There will be some oral interpretation of plays and poems, as well as emphasis upon parliamentary procedure and practice. Two hours per week. *Two semester hours.*

2. *Public Speaking*  
**MR. EHRlich**  
A continuation of Course I with the addition of game theatre and oral interpretation. Students will be asked to improvise dramatic situations and to interpret poems and scenes from plays. Prerequisite, Course I. *Two hours per week. Two semester hours.*

3. *Debating*  
**MR. VANNUCCHI**  
This course is organized for both beginners and advanced students who are interested in debating in intramural and intercollegiate tournaments. Open to third-year students who have completed Public Speaking 1 and 2, or who have been members of the Debating Club for at least one year. The course may be repeated for credit in the senior year. One hour per week. *One semester hour.*

4. *Debating*  
**MR. VANNUCCHI**  
Continuation of Course 3. One hour per week. *One semester hour.*  
*Note: All students in the College may participate in the activities of the extra-curricular debating society without being enrolled in Courses 3 and 4.*
The development of linguistic ability and an understanding of the foreign culture and literature comprise the scope of the first two years' work. Students who advance beyond courses numbered 4 receive further instruction in conversation, composition, and the literatures of the respective languages. The goal of this teaching is to develop faculties of critical and esthetic judgment, as well as to perfect the use of the languages.

**FRENCH**

French majors must meet the following requirements:

French 5, 6, 15, 16; History 3, 4 or 5, 6. It is recommended that Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school) be taken.

Two of the following courses: French 21, 22, 23, 24.

Two of the following courses: French 11, 12, 13, 14.

1. **Elementary French**
   - Three hours per week. *Three semester hours.*
   - **STAFF**

2. **Elementary French**
   - Prerequisite: French 1. Three hours per week. *Three semester hours.*
   - **STAFF**

3. **Intermediate French**
   - Prerequisite: French 2 or equivalent (i.e., satisfactory completion of two years of French in secondary school). Three hours per week. *Three semester hours.*
   - **STAFF**

4. **Intermediate French**
   - Prerequisite: French 3. Three hours per week. *Three semester hours.*
   - **STAFF**

5. **Survey of French Civilization and Literature**
   - The development of French life, arts and literature from the Middle Ages to the Revolution. Tapes and slides showing French cultural life from origin to modern time. Three hours per week. *Three semester hours.*
   - **MRS. LUCAS**

6. **Survey of French Civilization and Literature**
   - A continuation of Course 5; from 1789 to the present. Three hours per week. *Three semester hours.*
   - **MRS. LUCAS**

   - **21. Medieval French Literature**
     - Three hours per week. *Three semester hours.*
     - **MR. VANNUCCHI**

   - **22. Rabelais, the Pleiade, Montaigne**
     - Two hours per week. *Two semester hours.*
     - **MR. VANNUCCHI**

   - **23. Corneille, Racine, Moliere**
     - Two hours per week. *Two semester hours.*
     - **MR. VANNUCCHI**

   - **24. The Enlightenment**
     - Three hours per week. *Three semester hours.*
     - Courses 21 and 22 alternate with Courses 23 and 24.
     - **MR. VANNUCCHI**

   - *This course not offered in 1968-1969.*
COURSES OF INSTRUCTION

*11. Seminar in French Literature, 1800-1860
Three hours per week. Three semester hours.

MISS AXLER

*12. Seminar in French Literature, 1860-1890
Prerequisite: French 11. Three hours per week. Three semester hours.

MISS AXLER

13. Seminar in French Literature, 1890-1914
Three hours per week. Three semester hours.

MISS AXLER

14. Seminar in French Literature, 1914 to the present
Prerequisite: French 13. Three hours per week. Three semester hours.
Courses 11 and 12 alternate with Courses 13 and 14.

MISS AXLER

15. Advanced Composition and Conversation
Three hours per week. Three semester hours.

MR. VANNUCCHI AND MRS. LUCAS

16. Advanced Composition and Conversation
Three hours per week. Three semester hours.

MR. VANNUCCHI AND MRS. LUCAS

SPANISH

Spanish majors must meet the following requirements:
Six hours of advanced Spanish composition and conversation and fourteen hours of Spanish literature (Students planning to teach shall take three hours of advanced grammar in second semester of the senior year and may then take eleven hours of literature). History 1, 2, 5, 6 or 17, 18 or 27, 28.

1. Elementary Spanish
Three hours per week. Three semester hours.

STAFF

2. Elementary Spanish
Prerequisite: Spanish 1. Three hours per week. Three semester hours.

STAFF

3. Intermediate Spanish
Prerequisite: Spanish 2 or equivalent (i.e., satisfactory completion of two years of Spanish in secondary school). Three hours per week. Three semester hours.

STAFF

4. Intermediate Spanish
Prerequisite: Spanish 3. Three hours per week. Three semester hours.

STAFF

9. Spanish-American Literature through the Nineteenth Century
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. Two semester hours.

MR. RAPPOCCIO

10. Spanish-American Literature of the Twentieth Century
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. Two semester hours.
Courses 9 and 10 alternate with Courses 121 and 122.

MR. RAPPOCCIO

13. Advanced Composition and Conversation
Three hours per week. Three semester hours.

MR. RAPPOCCIO

*This course is not offered in 1968-1969.
14. Advanced Composition and Conversation
Three hours per week. Three semester hours.

*121. Spanish Theatre Since 1800
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.

*122. Spanish Prose Since 1800
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.

123. Theatre of the Siglo de Oro
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.

124. Prose of the Siglo de Oro
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.
Courses 123 and 124 alternate with Courses 125 and 126.

*This course is not offered in 1968-1969.
COURSES OF INSTRUCTION

125. *Spanish Lyric Poetry*  
DR. VORRATH  
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. *Two semester hours.*

126. *Medieval Spanish Literature*  
DR. VORRATH  
Prerequisite, Spanish 9, 10, 121, 122, 123, 124, 125, or permission of the instructor. Two hours per week. *Two semester hours.*

128. *Advanced Grammar*  
DR. VORRATH  
Intended primarily for Spanish majors who plan to teach. Prerequisites, Spanish 14 and at least one year of a Spanish literature course. Three hours per week. *Three semester hours.*

**SOCIOMETRY**  
MR. BERNSTEIN

1. *Introduction to Sociology*  
A course designed to give the student a more scientific understanding of man's social nature and of the social world in which he lives. In addition to fundamental concepts and theories particular attention is focused on problems arising from race relations and personality disorganization. *Not open to freshmen.* Three hours per week. *Three semester hours.*

2. *Introduction to Sociology*  
A continuation of Sociology 1. Problems to which particular attention is given include urbanization, public opinion and propaganda, marriage and the family, and crime and delinquency. Prerequisite, Course 1. Three hours per week. *Three semester hours.*

**SPANISH**  
See under *Romance Languages*

**SWEDISH**  
See under *Germanic Languages*

**SPECIAL OFFERINGS**

**COLLEGE SCHOLARS' PROGRAM**

Guided independent study for qualified sophomores and juniors. Each course is credited as three semester hours. (See "The Ursinus Plan" for details.)

201. *Languages*  
DR. RICE AND DIVISIONAL TUTORS

202. *Languages*  
DR. RICE AND DIVISIONAL TUTORS

203. *Humanities*  
DR. FERGUSON AND DIVISIONAL TUTORS

204. *Humanities*  
DR. FERGUSON AND DIVISIONAL TUTORS

205. *Social Sciences*  
DR. ZUCKER AND DIVISIONAL TUTORS

206. *Social Sciences*  
DR. ZUCKER AND DIVISIONAL TUTORS

207. *Science*  
DR. HOWARD AND DIVISIONAL TUTORS

208. *Science*  
DR. HOWARD AND DIVISIONAL TUTORS

*This course is not offered in 1968-1969.*

**On leave of absence.**
INTEGRATED PHYSICAL SCIENCE COURSE

CMP 267-1. Integrated General Chemistry, Mathematics, and General Physics

STAFFS OF THE CHEMISTRY, MATHEMATICS AND PHYSICS DEPARTMENTS

A combined course of general chemistry, analytical geometry, calculus, and general physics which avoids repetition and takes advantage of the complementary nature of these subjects. As the calculus is developed it is utilized in the presentation of the concepts of chemistry and physics. A knowledge of the elements of trigonometry is assumed.

It includes a study of the basic theories and laws of chemistry covering the common elements of the periodic system, their interactions and energy relationships. The mathematics portion is an integrated study of analytic geometry and calculus with respect to functions of one variable. The coverage is equivalent to the content of Mathematics 29. Elementary mechanics and heat comprise the physics content. Emphasis is placed on gaining an understanding of basic concepts of physics. An attempt is made to foster an analytical approach to the sciences through the application of mathematical and physical principles to physical problems.

Seven hours of lecture; two three hour laboratories, one in chemistry and one in physics, per week. Nine semester hours.

CMP 267-2. Integrated General Chemistry, Mathematics, and General Physics

DR. STURGIS, DR. STAIGER, DR. SNYDER, MISS SCHULTZ

A continuation of course 267-1. The chemistry content is a study of the oxidation states of the common elements, chemical equilibrium, solubility and pH. The chemistry laboratory work deals with the qualitative separation of the common cations and anions. The mathematics portion is a continuation of the study of analytic geometry and calculus. It is equivalent to Mathematics 30. The physics subjects covered include sound, light, electricity and magnetism.

Prerequisite, course 267-1. Completion of course 267-2 is prerequisite for subsequent chemistry and physics courses and satisfies the prerequisite for Mathematics 31. Seven hours of lecture; two three-hour laboratories, one in chemistry and one in physics, per week. Nine semester hours.

A student who fails CMP-267 may receive three credits in chemistry, mathematics, or physics upon recommendation of the CMP teaching staff. The recommendation is to be based on the student's performance during the semester he failed. Credit for only one or two of the three subjects may be obtained in this way, making it possible to redeem three or six semester hours. When credit is granted in chemistry at the end of the first semester of CMP, it enables the student to enroll in Chemistry 2; in mathematics, Mathematics 2 or Mathematics 30; in physics, Physics 2. The maximum grade assigned will be within the "D" range.

SENIOR SYMPOSIUM

The Senior Symposium is an elective course designed to encourage seniors from all departments to apply their accumulated knowledge to some of the major problems of this age. It is hoped that open discussion of current movements, ideas and values will help the students to move with a greater degree of confidence and usefulness in the world after graduation and will result in individual participation and involvement in the great issues of their time. The Symposium, therefore, will deal with meanings and values as well as facts.

1. Senior Symposium

Independent readings and periodic conferences with a Tutor, with emphasis on the Contemporary World. Open only to seniors. Three hours per week. Three semester hours.

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COURSES OF INSTRUCTION

2. Senior Symposium
MR. DAVIS AND STAFF
Discussion in depth of some of the major issues confronting Americans today with particular emphasis on the social foundations of education. Prerequisite, Senior Symposium 1. Three hours per week. Three semester hours.

WORLD LITERATURE

1. World Literature
STAFF
Critical reading of selected representative works from Western and non-Western literature. Three hours per week. Three semester hours.

2. World Literature
STAFF
A continuation of Course 1. Prerequisite, Course 1. Three hours per week. Three semester hours.
### Departmental Requirements

#### Classics (B.A.)
**Adviser—Professor Baker**

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#### Economics (B.A.)
**Adviser—Professor Shearer**

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#### English (B.A.)
**Adviser—Professor Yost**

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#### German (B.A.)
**Adviser—Professor Hartzell**

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**HEALTH AND PHYSICAL EDUCATION (B.S.)**  
Adviser—PROFESSOR BAILEY

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### DEPARTMENTAL REQUIREMENTS

#### POLITICAL SCIENCE (B.A.)
**Adviser—Professor E. H. Miller**

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### PSYCHOLOGY (B.S.)
**Adviser—Professor Fletcher**

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### ROMANCE LANGUAGES
#### FRENCH (B.A.)
**Adviser—Professor Vorrath**

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### SPANISH (B.A.)
**Adviser—Professor Vorrath**

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#### Fourth Year for Teachers
- Spanish 123 or 124 6
- Spanish 123, 124 6
- Electives 12
- Education Semester 14

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### Sciences

#### Biology (B.S.)

**Adviser—Professor Wagner**

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**Adviser—Professor Staiger**

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**Adviser—Professor Heilemann**

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#### Sciences (B.S.)

**Preparation for Secondary School Teaching in the Sciences**

**1. Concentration in Biology**

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**Credits**

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## II. CONCENTRATION IN CHEMISTRY

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**Third Year**

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## III. CONCENTRATION IN PHYSICS

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**Third Year**

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### Advisers—Professor Staiger and Visiting Professor Wessel

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FIVE-YEAR COMBINED LIBERAL ARTS—ENGINEERING PROGRAM

URSINUS COLLEGE (B.A.) THE UNIVERSITY OF PENNSYLVANIA OR OTHER ENGINEERING SCHOOLS (B.S. in Engr.) Advisor—Professor Heilemann

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STUDENTS WHO WISH TO PREPARE FOR TEACHING, THE MINISTRY, OR FOR ADMISSION TO PROFESSIONAL SCHOOLS OF MEDICINE, DENTISTRY, VETERINARY MEDICINE, LAW, OR NURSING SHOULD REFER TO "THE ADMISSION SECTION (CAREER OPPORTUNITIES)" WHERE SUGGESTED MAJORS ARE INDICATED.
### Board of Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>First Elected</th>
<th>Term Expires</th>
</tr>
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<tbody>
<tr>
<td>James M. Anderson, Wynnewood</td>
<td>1967</td>
<td>1972</td>
</tr>
<tr>
<td>Lillian Isenberg Bahrney, B.A., Myerstown</td>
<td>1951</td>
<td>1971</td>
</tr>
<tr>
<td>Charles A. Behney, B.A., M.D., Bisbee, Arizona</td>
<td>1937</td>
<td>1972</td>
</tr>
<tr>
<td>Evelyn Henzel Crawford, M.A., LL.D., Camp Hill</td>
<td>1950</td>
<td>1970</td>
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<tr>
<td>William Elliott, LL.D., Collegeville</td>
<td>1964</td>
<td>1969</td>
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<tr>
<td>Millard E. Glafelter, Ph.D., Sc.D.,</td>
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<tr>
<td>L.L.D., Jenkintown</td>
<td>1967</td>
<td>1972</td>
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<tr>
<td>Thomas P. Glassmoyer, B.S., LL.D., Willow Grove</td>
<td>1967</td>
<td>1972</td>
</tr>
<tr>
<td>Edward L. Gruber, B.S., Pottstown</td>
<td>1967</td>
<td>1972</td>
</tr>
<tr>
<td>Paul I. Guest, B.A., LL.B., Gladwyne</td>
<td>1966</td>
<td>1971</td>
</tr>
<tr>
<td>Donald L. Helfferich, B.A., LL.B., LL.D., Collegeville</td>
<td>1927</td>
<td>1972</td>
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<tr>
<td>Rhea Duryea Johnson, B.A., Litt.D., Cornwall</td>
<td>1928</td>
<td>1968</td>
</tr>
<tr>
<td>Charles Lachman, LL.D., Wayne</td>
<td>1949</td>
<td>1969</td>
</tr>
<tr>
<td>Henry P. Laughlin, B.S., M.D., Bethesda, Md.</td>
<td>1967</td>
<td>1972</td>
</tr>
<tr>
<td>D. Sterling Light, B.A., Norristown</td>
<td>1947</td>
<td>1972</td>
</tr>
</tbody>
</table>
Mabel Pew Myrin, Kimberton 1964 1969
Ellwood S. Paisley, B.S., Philadelphia 1959 1969
Muriel Brandt Pancoast, M.A., Collegeville 1960 1970
Boies Penrose, B.A., LL.D., Devon 1964 1969
Chester Robbins, M.A., LL.D., West Allenhurst, N. J. 1943 1969
Charles V. Roberts, B.S., Drexel Hill 1956 1971
George L. Thomas, Jr., B.A., D.C.S., Lilypons, Md. 1951 1971
Clarence A. Warden, Jr., LL.D., Haverford 1957 1972

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DONALD LAWRENCE HELFFERICH, A.B., LL.B., LL.D., President
B.A., Ursinus College; LL.B., Yale University School of Law; LL.D.,
Ursinus College, Temple University.

WILLIAM SCHUYLER PETTIT, M.S., Dean; Professor of Chemistry
B.S. in Chem., M.S., University of Pennsylvania.

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B.A., Cornell University; M.A., University of Wisconsin; Ph.D., Clark
University.

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B.A., Ursinus College; M.A., University of Pennsylvania; Ped.D.,
Ursinus College.

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B.A., Georgetown College; M.A., Ph.D., University of Pennsylvania.

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tion, Emeritus
B.S., M.A., Ph.D., University of Pennsylvania.

FRANK LEROY MANNING, Ph.D., Professor of Mathematics, Emeritus
B.S., Cornell University; M.S., Rutgers University; Ph.D., Cornell
University.

RUSSELL DAVIS STURGIS, Ph.D., Sc.D., David Laucks Hain Professor of
Chemistry
B.A., University of Delaware; M.S., Ph.D., University of Pennsylvania,
Sc.D., University of Delaware.

DONALD GAY BAKER, Ph.D., Professor of Greek
B.A., Haverford College; M.A., Ph.D., Harvard University.

GEORGE WELLINGTON HARTZELL, Professor of German
B.A., Lehigh University; M.A., Ph.D., University of Pennsylvania.

CALVIN DANIEL YOST, Jr., Ph.D., Librarian; N. E. McClure Professor of
English
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

*Listed in order of appointment to present rank; appointments of the same year are
listed alphabetically.

**Died April 7, 1967.

***Died September 16, 1967.
**MAURICE WHITMAN ARMSTRONG, S.T.M., Ph.D., Professor of History
B.A., M.A., Dalhousie University; B.D., Pine Hill Divinity Hall; S.T.M.
Ph.D., Harvard University.

PAUL RAYMOND WAGNER, Ph.D., J. Harold Brownback Professor of Biology
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

EVERETT MARTIN BAILEY, M.A., Director of Athletics; Professor of Physical Education
B.P.E., B.S., Springfield College; M.A., Columbia University.

JOHN JACOB HEILEMANN, Ph.D., Professor of Physics
B.A., M.A., Ph.D., University of Pennsylvania.

*EUGENE HERBERT MILLER, Ph.D., Professor of Political Science
B.A., Ursinus College; M.A., Ph.D., Clark University.

WILLIAM FRANKLIN PHILIP, Mus. Doc., Professor of Music

FOSTER LEROY DENNIS, Ph.D., Professor of Mathematics
B.S., Ursinus College; M.A., Cornell University; Ph.D., University of Illinois.

WILLIAM JOHN PHILLIPS, Ph.D., Director of the Evening School; Professor of English
B.A., M.A., Ph.D., University of Pennsylvania.

ELEANOR FROST SNELL, M.A., Professor of Physical Education
B.A., University of Nebraska; M.A., Columbia University.

ALLAN LAKE RICE, Ph.D., Assistant to the Dean of Admissions; Professor of German
B.A., M.A., Ph.D., University of Pennsylvania.

HELEN THOMPSON GARRETT, Ph.D., Professor of French
B.A., Swarthmore College; Diplome, University of Lille; Ph.D., University of Pennsylvania.

GARFIELD SIEBER PANCOAST, Ph.D., Professor of Political Science
B.S., Ursinus College; B.A., M.A., Ph.D., University of Pennsylvania.

LEVIE VAN DAM, Ph.D., Professor of Biology
B.S., M.S., Ph.D., Groningen State University, The Netherlands.

RICHARD MUMMA FLETCHER, Ph.D., Professor of Psychology
B.A., Franklin and Marshall College; Ph.D., Pennsylvania State University.

*Absent on leave 1967-1968.
**Died November 21, 1967.
HENRY KENNEDY SHEARER, Ph.D., Maurice O. Bone Professor of Economics
B.A., M.A., Ph.D., University of Pennsylvania.

BERNARD OBLENIS BOGERT, M.A., Visiting Professor of Geology
B.S., Lafayette College; M.A., Columbia University.

*ROGER POWELL STAIGER, Ph.D., Professor of Chemistry
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

ELMER ANDREW LISSFELT, M.A., Visiting Professor of Education
B.A., M.A., University of Pittsburgh.

HERMAN MARLUK WESSEL, Ph.D., L.H.D., Director of Placement; Visiting Professor of Education
B.A., Amherst College; M.A., Ph.D., University of Pennsylvania; L.H.D., Amherst College.

GEORGE GILBERT STOREY, Ph.D., Professor of English
B.A., Geneva College; M.A., Duke University; M.A., Ph.D., Harvard University.

MATTHEW WILSON BLACK, Ph.D., Visiting Professor of English
A.B., M.A., Ph.D., University of Pennsylvania.

ALFRED LEON CREAGER, B.S., B.D., D.D., Chaplain; Associate Professor of the History of the Christian Church
B.S., Ursinus College; B.D., The Theological Seminary, Lancaster; D.D., Ursinus College.

RAYMOND VICTOR GURZYNSKI, M.Ed., Associate Professor of Physical Education
B.S., Ursinus College; M.Ed., Temple University.

GEOFFREY DOLMAN, M.A., Dean of Admissions; Associate Professor of English
B.A., M.A., University of Pennsylvania.

EVAN SAMUEL SNYDER, Ph.D., Associate Professor of Physics
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

FREDERICK DONALD ZUCKER, Ph.D., Associate Professor of Political Science
B.A., Rutgers University; M.A., Ph.D., Pennsylvania State University.

ROBERT STEARNS HOWARD, Ph.D., Associate Professor of Biology
B.S., University of Chicago; M.S., University of Miami; Ph.D., Northwestern University.

JOHN CHARLES VORRATH, JR., Ph.D., Assistant Dean; Associate Professor of Romance Languages
B.A., Ph.D., Yale University.

EVERETT VERNON LEWIS, Ph.D., Associate Professor of Mathematics
B.S., Ph.D., Massachusetts Institute of Technology.

*Absent on sabbatical leave for the first semester.
HOWARD LLOYD JONES, JR., M.A., Associate Dean of Admissions; Associate Professor of English
B.A., University of Delaware; M.A., University of Pennsylvania.

WILLIAM THOMAS PARSONS, Ph.D., Associate Professor of History
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

BLANCHE BEATRICE SCHULTZ, M.S., Associate Professor of Mathematics
B.S., Ursinus College; M.S., University of Michigan.

JAMES DOUGLAS DAVIS, M.A., Associate Professor of History
B.A., Ursinus College; M.A., University of Pennsylvania.

CONRAD EDWARD KRUSE, D.Sc., Associate Professor of Biology
B.Sc., D.Sc., Philadelphia College of Pharmacy and Science; M.Sc., University of Wisconsin.

WALTER WOODROW MARSTELLER, B.S., Assistant Professor of Physics
B.S., Ursinus College.

HARRY CLAY SYMONS, M.A., Assistant Professor of Economics
B.A., M.A., Pennsylvania State University.

RAYMOND LOUIS RAFETTO, JR., M.A., Assistant Professor of Economics
B.S., Temple University; M.A., University of Pennsylvania.

DAVID WALTER BAKER, Th.B., M.D., Assistant Professor of Religion
B.A., Coe College; Th.B., Princeton Theological Seminary; M.D., University of Pennsylvania.

RICHARD JACOB WHATLEY, M.S., Dean of Men; Assistant Professor of Physical Education
B.S., University of Maine; M.S., Springfield College.

JANE ANN BARTH, M.A., Assistant Professor of Chemistry
B.A., Mount Holyoke College; M.A., Smith College.

GERALD HAHN HINKLE, Ph.D., Assistant Professor of Philosophy
B.A., Franklin and Marshall College; B.D., Lancaster Theological Seminary; M.A., Ph.D., Yale University.

BRADLEY BATEMAN RIDGE, Ph.D., Assistant Professor of Psychology
B.A., The University of Texas; M.A., Stanford University; Ph.D., Temple University.

RAY KARL SCHULTZ, Ph.D., Assistant Professor of Chemistry
B.S., Muhlenberg College; M.S., Ph.D., Lehigh University.

OMER SAMUEL BRENGLE, M.B.A., Assistant Professor of Economics
B.S., University of Pennsylvania; M.B.A., Lehigh University.
URSINUS COLLEGE BULLETIN

GAYLE ARMISTEAD BYERLY, Ph.D., Assistant Professor of English
A.B., Goucher College; M.A., Ph.D., University of Pennsylvania.

JAMES WILSON FERGUSON, Ph.D., Assistant Professor of History and Philosophy.
A.B., Kenyon College; M. A., Bryn Mawr College; Ph.D., Princeton University.

RONALD EUGENE HESS, Ph.D., Assistant Professor of Chemistry
B.S., Lock Haven State College; Ph.D., Cornell University.

ROBERT LEWIS LEIGHT, Ed.D., Adviser to Veterans, Assistant Professor of Education

AUGUST L. PEASTREL, Ph.D., Assistant Professor of Psychology
B.A., Columbia University; M.A., Ph.D., University of Pennsylvania.

ELAINE MELTZ TEUNE, M.A., Assistant Professor of Modern Languages
B.A., University of Minnesota; M.A., Indiana University.

ADELE PACK BOYD, Assistant Professor of Physical Education
B.S., Ursinus College; M.Ed., Temple University.

*JESSIE ASHWORTH MILLER, Ph.D., Lecturer in Sociology
B.A., University of Maine; M.A., Ph.D., Clark University.

MARIAN GERTRUDE SPANGLER, B.A., Instructor in Music
B.A., Ursinus College.

EBERHARD HANS GEIGER, M.A., Cataloguer, Library; Instructor in German
Attended Munich and Tubingen Universities; M.A., University of Pennsylvania.

NANCY SCHWARTZ MAYERS, B.S., Instructor in Physical Education
B.S., New York University.

MARY GLEASON MENDELSON, M.S. in L.S., Assistant Librarian
B.A., University of Wichita; M.S. in L.S., Drexel Institute of Technology.

RICHARD PAUL RICHTER, M.A., Assistant to the President; Instructor in English
B.A., Ursinus College; M.A., University of Pennsylvania.

MARGARET BROWN STAIGER, B.A., Senior Assistant Librarian
B.A., Ursinus College.

WESLEY CALDWELL CLYMER, M.A., Teaching Fellow in English
B.A., St. Lawrence University; M.A., University of Pennsylvania.

*Absent on leave 1967-1968.
MELVYN HERBERT EHRLICH, M.A., Teaching Fellow in English
B.A., M.A., University of Pennsylvania.
PHILIP JOSEPH RAPPOCCIO, M.A., Instructor in Romance Languages
B.A., M.A., Rutgers, The State University.
JOSEPH EDWARD VANNUCCHI, M.A., Director of Forensics; Instructor in French
B.A., King’s College; M.A., Pennsylvania State University.
GARY MILES WALDO, M.A., Instructor in History
B.A., M.A., University of Pennsylvania.
SAHADHEVAN AMARASINGHAM, A.B., Instructor in Political Science
A.B., Brandeis University.
SAMUEL JOSHUA BERNSTEIN, M.A., Instructor in Sociology and Political Science
B.A., Brooklyn College; M.A., University of Pennsylvania.
KEITH J. HARDMAN, M.A., Instructor in Philosophy and Religion
B.A., Haverford College; M.A., Columbia University.
HARRIET MAXINE AXLER, M.A., Instructor in French
A.B., M.A., Temple University.
RICHARD STUART BREMILLER, M.A., Instructor in Mathematics
B.S., United States Merchant Marine Academy; M.S., Drexel Institute of Technology; M.A., University of Delaware.
HELEN SEWELL JOHNSON, M.A., Instructor in English
B.A., Agnes Scott College; M.A., Indiana University.
ANNETTE VOCK LUCAS, M.A., Instructor in French
VERNON RAYMOND MORRIS, M.S., Instructor in Reading
B.S., West Chester State College; M.S., Temple University.
SANDRA GOLDBERG NARIN, M.A., Instructor in Russian
A.B., Bryn Mawr College; M.A., University of Pennsylvania.
JANE PERRETTEN SHINEHOUSE, P.T., Assistant Instructor in Biology
B.S., Ursinus College; P.T., University of Pennsylvania.
VIRGINIA KEIM HUDNUT, B.S., Assistant in Psychology
B.S., Ursinus College.
CONSTANCE WARREN POLEY, B.S., Assistant in Physical Education
B.S., Ursinus College.
JEANETTA RENEBERGER BICKING, M.S., Assistant in Integrated Course
B.S., Ursinus College; M.S., University of Delaware.
MARIE EILEEN DEVINE, M.S. in L.S., Assistant Librarian
B.A., Ursinus College; M.S. in L.S., Drexel Institute of Technology.
KATHERINE WOOD KNEAS, B.S. in L.S., Assistant Librarian
B.S., Ursinus College; B.S. in L.S., Drexel Institute of Technology.
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Secretary, Professor Yost

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Professor Yost
Professor Hinkle

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Mr. Richter
Professor Pancoast

The Dean
Professor Staiger
Professor Vorrath

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Classics Department, Professor Donald G. Baker
Economics Department, Professor Shearer
Engineering, Professor Heilemann
English Department, Professor Yost

Germanic and Slavic Languages Department, Professor Hartzell
Health and Physical Education, Professor Bailey
History Department, Professor Armstrong*
Mathematics Department, Professor Dennis

Philosophy and Religion Department, Professor Hinkle
Physics Department, Professor Heilemann
Political Science Department, Professor Pancoast

Psychology Department, Professor Fletcher
Romance Languages Department, Professor Vorrath

Undesignated,

Humanities, Professor Hartzell
Social Sciences, Professor Parsons
Natural Sciences, Professor Snyder

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Sophomore Class, Professor Ray K. Schultz
Junior Class, Professor Ridge

Senior Class, Professor Lewis

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Scholarships: The President, Dean Pettit, Professor Vorrath, Professor Dolman, Professor Jones.

* Died November 21, 1967
Directory: Assistant Dean Vorrath, Dean Pettit, Dean Rothenberger, Dean Whatley, Professor Dolman, Professor Sturgis, Professor Lewis, Professor Bailey, Professor Barth.

Student Activities: Dean Rothenberger, Dean Whatley, The Chaplain, Professor Blanche B. Schultz, Professor Pancoast, Professor Ray K. Schultz, Professor Rafetto.

Student Publications: Professor Storey, Professor Jones, Mr. Ehrlich, Mr. Richter, Mr. Clymer.

Athletics: Professor Bailey, Professor Pancoast, Professor Dolman, Dean Whatley, Professor Gurzynski, Professor Snell.

Forum and Cultural Activities: Dean Rothenberger, Professor Donald G. Baker, Professor Rice, Professor Philip, Professor Craeger, Dr. James E. Wagner.

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- Katherine Wood Kneas, B.S. in L.S.

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- Mrs. John M. Paton, Treasurer’s Office
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- Mr. James M. Parker, Assistant to the Steward

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- Mrs. James Thomson, Placement Office
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- Mrs. Charles D. Mattern, Library Office
- Miss Joanne E. Pfleger, Development Office
- Mrs. L. S. Weber, Jr., Development Office
Prizes, Honors, Degrees

AWARDED IN 1967

The American Chemical Society Award — Karen Lynn Wanner, '67
The John C. Boyer Memorial Prize — Dennis Lee O'Connell, '69
Cub and Key Scholarship — Jeffrey Dengler Beck, '70
The George Ditter Prize — George Allen Atkinson, Jr., '67
The Duttera Prize — Frederick Albert Jacob, '69
The Ehret Prize — Richard Vaughan Baker, '67
The Edwin M. Fogel Prize — John Charles Mathers, '67
The Philip H. Fogel Memorial Prize — Timothy Carlton Rupp, '67
The Ronald C. Kichline Athletic Prize — William Alan Henry, '67
The Elizabeth Rockefeller McCain Prize — Doris Anne Myers, '69
The Nitze's Pennsylvania German Folklore Prize — Carolyn Jane Mattern, '67
The Paisley Prize — Timothy Carlton Rupp, '67
The Pennsylvania Institute of Certified Public Accountants Award —
Carl Frederick Guether, '67
The Peters Prize — Robert Hoffman Naylor, '67
The Ellen Beaver Schlaybach Memorial Prize — Marion Elizabeth Stutzke, '67
The Senior Alumni Award — Diana Elizabeth Van Dam and Ronald Hisao Hirokawa, '67
The Robert Truskess Prize — John William Fertig, Jr., '67
The Ursinus Women's Club Prize — Linda Kay Nixon and Brenda Marie Bedser, '67
The Elizabeth B. White Prize — Joyce Ann Demcher, '67
The Professor Elizabeth B. White Prize — Barbara Ann Gay, '67
The Whitian Prize — Dorothy Pierce Brower, '70

COMMENCEMENT HONORS

Valedictorian: Marion Elizabeth Stutzke
Salutatorian: Jeanne Susan Baggs

Magna Cum Laude: Hughan Conrad Meyer, Jr., November, 1966
Marion Elizabeth Stutzke

Cum Laude: Barbara June Bachmann
Jay Sylvan Cohen
Wendy Ann Edmiston
Susan Irene Hartenstine

Lyne Ackley Johnson
Carolyn Jane Mattern
Linda Mae Rader
Lawrence Donald Romane
William Charles Schlippert

DEPARTMENTAL HONORS

Biology: Pamela Ann Tannebring

Chemistry: Harriet Vyvyan Taylor
Karen Lynn Wanner

English: Nancy Joan Schlosser

German: Cynthia Elizabeth Powell
Linda Mae Rader

History: Eileen Steeley Binckley
Gwendolyn Anne Faust
Barbara Ann Gay
Carolyn Jane Mattern
Jeanne Blair Reid

Mathematics: Marion Elizabeth Stutzke

Psychology: Robert David Meier
Margaret Rose Schreiner

Spanish: Jeanne Susan Baggs

CHAPTER SCHOLARS

Jay Sylvan Cohen
Barbara Ann Gay
Susan Irene Hartenstine

Lyne Ackley Johnson
John Christian Mills
Cynthia Elizabeth Powell

Linda Mae Rader
Lawrence Donald Romane
Marion Elizabeth Stutzke

DEGREES, 1967

DOCTOR OF DIVINITY (Honorary) William T. Longsdorf
DOCTOR OF LETTERS (Honorary) Walter Beinecke, Jr. — Henry L. Willet
DOCTOR OF LAWS (Honorary) Philip I. Berman — Charles G. Simpson
DOCTOR OF SCIENCE (Honorary) Sherman A. Eger
ASSOCIATE IN BUSINESS ADMINISTRATION
Morris Carll
George Francis DiDomizio
Earl Orlando DiJenno, Jr.
Joseph James Crosso
Dennis Franklin Horner
Edward Francis Janke
Bruce Duncan Kenworthy
Jay Frank Patton
Richard Michael Tango
William Bailey Youngblood

BACHELOR OF BUSINESS ADMINISTRATION
Antony Alan Botto
Robert Peter Craig
Robert Paul Meyers
Dennis Scott Moyer

BACHELOR OF ARTS
George Allen Akinson, Jr.
Charles Crooke Auchincloss
Jeanne Susan Baggs
Robert David Bair
Jocelyn Alida Bartholomew
Craig LaMar Bender
Terry Kenneth Betterly
Robert Arthur Beyer
Eileen Steely Binckley
Lewis Reese Bostic
Carol Elaine Boyer
Edward Richard Breidenfield
Linda Jean Burk
David Clifton Campbell
William Wesley Colflesh
Elwood William Cooper
Susan Elaine Correll
Eileen Hazel Cox
Stephen Rand Crawford
Lewis Coulter Cuthbert
Joyce Ann Demcher
Diane Ruth Detwiler
Marilyn Edith Diecks
Carol Ann Ditzler
George William Doerner, Jr.
Claude Curtis Erb
Glenn Ernest Eshbach, Jr.
Barbara Janet Evans
Gwendolyn Anne Faust
Pauline Suzanne Fedor
John William Fertig, Jr.
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Eure, Mills A. Drexel Hill
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Finan, Margaret S. Woodbury, N. J.
Finch, Beverly T. Reading
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Jacob, Frederick A. Pottstown
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Kaiser, Geoffrey D. Maple Glen
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Vanderlin, Robert L., Jr.  Williamsport  
Vanderslice, Robert B.  Westmont, N. J.  
Van Horn, Janis L.  Yardley  
Vanhorn, Linda B.  Laverock  
Van Horn, Vicki M.  Pottstown  
Van Saun, William A., Jr.  Mahanoy City  
Vaughan, Ward P.  Media  
Vaul, John J., Jr.  Chester  
Vernon, William A.  Media  
Viola, Samuel J., Jr.  Norristown  
Voelker, Dorothy P.  Fairfield, N. J.  
Voll, Richard V.  Ridley Park  
Vonsothen, Peter A.  North Plainfield, N. J.  
Wagner, Barbara Jeanne  Hatboro  
Wagner, Thomas F.  Lynchburg, Va.  
Waite, Marilyn E.  Sellersville  
Walbert, Lynne E.  Norristown  
Wall, Constance U.  Forty Fort  
Walsh, Norman F.  Collegeville  
Walstad, Allan M.  Trenton, N. J.  
Ware, Linda L.  Bath  
Warren, Perry S.  Newtown  
Wasko, Joanne M.  Spring City  
Watson, Mary P.  Phoenixville  
Watson, Richmond C.  St. Peters  
Weaver, Jonathan D.  Atlanta, Ga.  
Weiland, Karl W.  Grove City  
Weir, Sally A.  Ambler  
Weiss, Stephen M.  Broomall  
Welsh, Robert G.  Cheltenham  
Wenof, Michael  Norristown  
Wertz, Terrell M.  Chester Springs  
Wheat, Corydon M.  Swarthmore  
Whelan, Clare E.  North Wales  
Whipp, David C.  North Wales  
White, Nancy H.  Basking Ridge, N. J.  
Whited, Richard G.  Plymouth Meeting  
Widman, Diane C.  Philadelphia  
Wieczorek, Delana North Plainfield, N. J.  
Wierman, Nancy K.  Norristown  
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Williams, Charles L.  Philadelphia  
Williams, Charlotte Ann  Woodbridge, N. J.  
Williams, James A.  North Wales  
Williams, M. Lenore  Lafayette Hills  
Williams, Mason, Jr.  Easton  
Williams, Raymond R.  Chester Heights  
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Wurst, Nancy L.  Cherry Hill, N. J.  
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Wyman, Laurence W., III  Sao Paulo, Brazil, S. A.  
Yager, Rebecca J.  Allentown  
Yamamoto, Susanne Y.  Newtown  
Yannone, Robert D.  Clifton Heights  
Yeakel, James D.  Nazareth  
Yeakley, Susan R.  APO, N. Y.  
Yerger, Charles W.  Spring Mount  
Yoder, Rebecca J.  Allentown  
Yorgey, Kenneth F.  Pottstown  
Yost, Elaine M.  Kutztown  
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Young, Linda L.  Nazareth  
Young, Mark C.  Ardmore  
Zaengle, Frederick R., Jr.  Dresher  
Zamostien, Paul S.  Bala Cynwyd  
Zavotsky, Margaret A.  Somerset, N. J.  
Zegel, Harry G.  Drexel Hill  
Zehl, Holly A.  St. James, N. Y.  
Zehner, Joseph B.  Woodstown, N. J.  
Zimmerman, David R.  Westfield, N. J.  
Zimmerman, Marc S.  Philadelphia  
Zollers, Kenneth E.  Norristown  
Zona, John, Jr.  Allentown
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Alumni Secretary — Donald C. Estes, Ursinus College, Collegeville, Pa.

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President — Roger Dreschler, Esq., '51, 5504 Lombardy Place, Baltimore, Md.
Calendar for 1968

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## Calendar for 1969

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College Calendar for 1968

1968

January  2  Tuesday  Christmas Recess ends, 8:00 A.M.
January  18  Thursday  First Semester Examinations begin
January  27  Saturday  First Semester Examinations end
February  5  Monday  Second Semester Begins, 8:00 A.M. Registration of New Students
February  15  Thursday  Last day for filing Open Scholarship and Financial Grant Applications
March  22  Friday  Mid-Semester Grades due 4:00 P.M.
March  23  Saturday  Spring Recess begins, 1:00 P.M.
April  1  Monday  Spring Recess ends, 8:00 A.M.
April  12  Friday  Good Friday, No Classes
April  15  Monday  Pre-Registration begins
May  23  Thursday  Second Semester Examinations begin
June  1  Saturday  Second Semester Examinations end
June  1  Saturday  Alumni Day
June  2  Sunday  Baccalaureate Service, 10:45 A.M.
June  3  Monday  Commencement, 11:00 A.M.
June  5  Wednesday  Summer School begins, 8:00 A.M.
August  30  Friday  Summer School ends, 5:30 P.M.
September  21  Saturday  Freshman Program begins, Academic Convocation, 4:00 P.M.
September  23  Monday  Registration of New Students
September  24  Tuesday  Second Day of Registration
September  25  Wednesday  First Semester begins, 8:00 A.M.
October  12  Saturday  Parents' Day
October  26  Saturday  Homecoming Day
November  3  Sunday  Founders' Day Convocation 3:00 P.M.
November  11  Monday  Mid Semester Grades due 9:00 A.M.
November  27  Wednesday  Thanksgiving Recess begins 5:30 P.M.
December  2  Monday  Thanksgiving Recess ends 8:00 A.M.
December  21  Saturday  Christmas Recess begins 5:30 P.M.
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<td>February 1</td>
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<td>First Semester examinations end</td>
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<td>February 10</td>
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<td>Second Semester begins, 8:00 A.M. Registration of New Students</td>
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<td>February 15</td>
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<td>June 8</td>
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<td>Baccalaureate Service, 10:45 A.M.</td>
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PHOTOGRAPHY: HARRY GEHLERT

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THE UR SIN US COLLEGE CAMPUS

1. Pfahler Hall of Science (laboratories, classrooms, Evening School)
2. Curtis Hall, dormitory for men
3. Wilkinson Hall, lounge and dormitory for men
4. Bredebeck Hall, dormitory for men
5. Freeland Hall, with Stine (left) and Derr (right) Halls dormitories for men
6. Bomberger Memorial Hall (chapel, classrooms, administration, lounge, recreation, etc.)
7. Post Office, Store and Snack Bar
8. Alumni Memorial Library
9. Administration Building (1968)
10. Studio Cottage
11. Infirmary
12. Maintenance Building
13. Paisley, Stauffer, Beardwood Halls, dormitories for women
14. College Gymnasium
15. Thompson-Gay Gymnasium
16. Heating and Power Plant
17. Wiman Hall
18. Dormitory for women, 944 Main Street
19. Dormitory for women, 942 Main Street
20. Fiscroft Hall, dormitory for men, 940 Main Street
21. Insenberg Hall, dormitory for men, 901 Main Street
22. Todd Hall, dormitory for men, 724 Main Street
23. Onwake Hall, dormitory for men, 701 Main Street
24. Schaff Hall, dormitory for women, 646 Main Street
25. Olevian Hall, dormitory, 640 Main Street
26. Zwingle Hall, Alumni, Development, U.C.C. Conf. Hdq., dormitory, 620 Main Street
27. Duypen Hall, dormitory for women, 612 Main Street
28. Shreiner Hall, dormitory for women, 6th Avenue and Main Street
29. South Hall, dormitory for men, 6th Avenue
30. Hobson Hall, dormitory for women, 568 Main Street
31. Fetterolf House, dormitory for men, 554 Main Street
32. Super House, President's home, 542 Main Street
33. Trinity Church, United Church of Christ
34. The Parsonage, 522 Main Street
35. Maples Hall, dormitory for men, 520 Main Street
36. Knigwe Hall, dormitory for women, 513 Main Street
37. Clamer Hall, dormitory for women, 409 Main Street
38. Dormitory for men