CORRESPONDENCE DIRECTORY

For prompt attention, inquiries should be addressed as indicated below:

Admissions .................. Director of Admissions
Alumni interests ....... Vice-President for Public and Alumni Affairs
Arts and Sciences .......... Dean, College of Arts and Sciences
Business Administration .. Dean, College of Business Administration
Business matters .......... Vice-President for Business Affairs
Christ College .............. Dean, Christ College
Employment of seniors, alumni Dean of Student Services
Engineering ................. Dean, College of Engineering
Evening Division .......... Director of Continuing Education
General information .... Vice-President for Public and Alumni Affairs
Gifts ...................... Vice-President for Public and Alumni Affairs
Graduate Program .......... Director, Graduate Division
Law ........................ Dean, School of Law
Nursing .................... Dean, College of Nursing
Scholarships, student aid .... Director of Financial Aid
Student concerns .......... Vice-President for Student Affairs
Summer session .......... Director of Continuing Education
Teacher placement ...... Chairman, Department of Education
Transcripts, grade reports Registrar

Visitors are invited; guides are available. Appointments should be made by writing to Director of Admissions, Valparaiso University, Valparaiso, Indiana 46383, or by calling the Admissions Office of the University. The University number is (219) 464-5000.

For your convenience this bulletin is indexed on page 269.

Cover:
Student, Wendy C. Brusick
(Art Major).

Photographic Assistance:
Student, Ellen D. Hughson (Journalism Major).
Student, Alfred L. Seib (Journalism Major).
The General Catalog Number of the Valparaiso University Bulletin is published every other year to provide a comprehensive picture of the University. In alternate years an Announcements Number is published to provide information regarding major changes in calendar, staff, program, and policies.

In addition, separate catalogs are issued relative to the School of Law, the Graduate Division, and the Summer Session.

Note: The material contained in this Bulletin is for information only and does not constitute a contract between the student and the University. The University and its various units reserve the right to revise policies, amend rules, alter regulations, and change financial charges at any time in accordance with the best interests of the institution.

No person will be excluded from or subjected to any form of unlawful discrimination under any program or activity at Valparaiso University on grounds of race, color, creed, sex, or national origin.

UNIVERSITY CALENDAR FOR 1977-1978

For the College of Arts and Sciences, the College of Business Administration, the College of Engineering, and the College of Nursing.

1977

MINI SUMMER SESSION
(May 23 - June 16)

SUMMER SESSION
June 20, Monday, 7:30 A.M.; 1:00 P.M. Instruction begins. Late registration.
July 4, Monday. No classes.
August 10, Wednesday. Summer Session closes 5:00 P.M.

FALL SEMESTER
August 27, Saturday, 8:00 A.M. Orientation week for freshmen begins.
August 30, Tuesday, 8:00 A.M. Registration for upperclassmen.
August 31, Wednesday, 8:00 A.M. Registration for freshmen and transfer students.
September 1, Thursday, 8:00 A.M. Instruction begins.
September 1 - October 20. Dates for first half short courses.
September 7, Wednesday, 5:00 P.M. Deadline for adding first half short courses.
September 9, Friday, 5:00 P.M. Deadline for adding regular courses.
September 21, Wednesday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
October 8, Saturday. Homecoming Day.
October 14 - October 19. Adjustment period for adding second half short courses (and arranging course intensification).
October 14, Friday. Last day to file application of candidacy for the associate's and bachelor's degrees to be conferred in May or August, 1978.
October 26, Wednesday, 5:00 P.M. Deadline for adding second half short courses.
November 2, Wednesday, 5:00 P.M. Deadline for withdrawing from regular courses with grade of W.
November 10, Thursday, 5:00 P.M. Deadline for withdrawing from second half short courses with grade of W.
November 18, Friday, 10:00 P.M. Thanksgiving recess begins.
November 28, Monday, 8:00 A.M. Thanksgiving recess ends.
December 16, Friday, 6:30 P.M. Instruction ends.
December 17, Saturday, 8:00 A.M. Final examinations begin.
December 22, Thursday, 1:00 P.M. Final examinations end. Semester ends.
December 24, Saturday, Noon. Deadline for all grades.

1978

SPRING SEMESTER
January 9, Monday. Orientation for new students.
January 10, Tuesday. 8:00 A.M. Registration for upperclassmen.
January 11, Wednesday, 8:00 A.M. Registration for all freshmen and transfer students.
January 12, Thursday, 8:00 A.M. Instruction begins.
January 18, Wednesday, 5:00 P.M. Deadline for adding first half short courses.
January 20, Friday, 5:00 P.M. Deadline for adding regular courses.
February 1, Wednesday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
February 23-March 1. Adjustment period for adding second half short courses (and arranging course intensification).
March 6 - May 9. Dates for second half short courses.
March 8, Wednesday, 5:00 P.M. Deadline for adding second half short courses.
March 15, Wednesday, 5:00 P.M. Deadline for withdrawing from regular courses with grade of W.
March 17, Friday, 6:30 P.M. Spring recess begins.
April 3, Monday, 8:00 A.M. Spring recess ends.
April 7, Friday, 5:00 P.M. Deadline for withdrawing from second half short courses with grade of W.
April 14, Friday. Last day to file application of candidacy for the associate's and bachelor's degrees to be conferred in December 1978.
April 28, 29, and 30, Friday, Saturday, and Sunday. Spring Festival begins 4:00 P.M. on Friday.
May 9, Tuesday, 10:00 P.M. Instruction ends.
May 10, Wednesday. Reading day.
May 11, Thursday, 8:00 A.M. Final examinations begin.
May 16, Tuesday, 1:00 P.M. Final examinations end. Semester ends.
May 17, Wednesday, Noon. Deadline for grades for all candidates for all degrees.
May 19, Friday, 5:00 P.M. Deadline for all other grades.
May 21, Sunday. 104th Annual Commencement.
Certain other dates are observed annually by the University with special convocations or special religious services: The Festival of the Reformation, Veterans Day, Lincoln's Birthday, Washington's Birthday, Ash Wednesday, and The Festival of the Ascension.

UNIVERSITY CALENDAR FOR 1978-1979
For the College of Arts and Sciences, the College of Business Administration, the College of Engineering, and the College of Nursing.

1978

MINI SUMMER SESSION
(May 22 - June 15)

SUMMER SESSION
June 19, Monday, 7:30 A.M.; 1:00 P.M. Instruction begins. Late registration. July 3 and 4, Monday and Tuesday. No classes.
August 9, Wednesday, Summer Session closes 5:00 P.M.

FALL SEMESTER
August 26, Saturday, 8:00 A.M. Orientation week for freshmen begins.
August 29, Tuesday, 8:00 A.M. Registration for upperclassmen.
August 30, Wednesday, 8:00 A.M. Registration for freshmen and transfer students.
August 31, Thursday, 8:00 A.M. Instruction begins.
August 31 - October 19. Dates for first half short courses.
September 6, Wednesday, 5:00 P.M. Deadline for adding first half short courses.
September 8, Friday, 5:00 P.M. Deadline for adding regular courses.
September 20, Wednesday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
October 12 - October 18. Adjustment period for adding second half short courses (and arranging course intensification).
October 14, Saturday. Homecoming Day.
October 16, Monday. Last day to file application of candidacy for the associate's and bachelor's degrees to be conferred in May or August, 1979.
October 20 - December 15. Dates for second half short courses.
October 25, Wednesday, 5:00 P.M. Deadline for adding second half short courses.
November 1, Wednesday, 5:00 P.M. Deadline for withdrawing from regular courses with grade of W.
November 9, Thursday, 5:00 P.M. Deadline for withdrawing from second half short courses with grade of W.
November 15, Friday, 10:00 P.M. Thanksgiving recess begins.
November 22, Friday, 10:00 P.M. Thanksgiving recess ends.
December 1, Monday, 8:00 A.M. Thanksgiving recess begins.
December 15, Friday, 6:30 P.M. Instruction ends.
December 16, Saturday, 8:00 A.M. Final examinations begin.
December 21, Thursday, 1:00 P.M. Final examinations end. Semester ends.
December 23, Saturday, 2:00 P.M. Deadline for all grades.

SPRING SEMESTER
January 8, Monday. Orientation for new students.
January 9, Tuesday, 8:00 A.M. Registration for upperclassmen.
January 10, Wednesday, 8:00 A.M. Registration for all freshmen and transfer students.
January 11, Thursday, 8:00 A.M. Instruction begins.
January 11 - March 1. Dates for first half short courses.
GENERAL INFORMATION

CAMPUS

EXPENSES

FINANCIAL AID
VALPARAISO UNIVERSITY. The University is a medium sized, private, church-related, coeducational university which includes seven units: the College of Arts and Sciences, Christ College, the College of Business Administration, the College of Engineering, the College of Nursing, the School of Law, and the Graduate Division. In addition, cooperative nursing programs are offered in Cleveland, St. Louis, and Fort Wayne. The University has a total student enrollment of over 4,000, a full-time on-campus enrollment of over 3,500, and a faculty which numbers over 270. The educational program utilizes a plant of over 70 instructional and residential buildings, located on a campus of 310 acres and comprising property valued at approximately thirty-five million dollars.

As the nation’s largest Lutheran-affiliated institution of higher education, Valparaiso University is large enough to provide a broad range of academic programs and collegiate experiences; yet, in its seven units, it is oriented to small classes and individual guidance. Through its commitment to academic excellence, Valparaiso is truly a university; yet, by its rootage in Christian heritage, it shares the message of the church.

OBJECTIVES. Valparaiso University aspires to serve the growth of whole men and women. As thought, feeling, and expression are always involved in human action, an educational philosophy or program which neglects any of these factors must in some degree be inadequate. In common with other institutions of higher learning, Valparaiso University is concerned with the preservation and application of the accumulated knowledge of mankind. As a church-related institution, the University sees knowledge of the Christian tradition as essential to the educated person; for this reason it places emphasis on the religious heritage of mankind, particularly on the Christian heritage as grasped by the Lutheran Church, which constitutes the largest body of Protestant Christians in the world.

HISTORICAL BACKGROUND. Valparaiso University’s history has three distinct phases.

Valparaiso Male and Female Academy was founded in 1859 as one of the first coeducational institutions in our land.

After reverses caused by the Civil War, classes were suspended in 1869, but the institution was revived by Henry Baker Brown as the Northern Indiana Normal School and Business Institute in 1873. “Mr. Brown’s School,” a flourishing private, proprietary institution, was renamed Valparaiso College in 1900 and rechartered as Valparaiso University in 1907.

A new chapter in the history of the University was begun in the summer of 1925, when the University was purchased by the Lutheran University Association. This Association, an Indiana corporation composed of men and women affiliated with the Lutheran Church-Missouri Synod, now owns and controls the University.

The oldest current unit of the University is the College of Arts and Sciences, dating back to the founding of the institution in 1859. The School of Law was founded in 1879 as the Northern Indiana Law School and became part of the University in 1905. The reorganized College of Engineering dates back to 1949. Graduate Division offerings first appeared in 1963. The Department of Business and Economics became the College of Business Administration in 1964. In 1966, the honors program of the University was reorganized into
Christ College, a separate honors unit in the institutional structure. The newest school is the College of Nursing, inaugurated in 1968.

LOCATION. Valparaiso, Indiana, the seat of the University, is forty-four miles southeast of Chicago. It is a residential city of twenty thousand inhabitants. Porter County, of which it is the county seat, adjoins the industrial communities of the Calumet District. The community is served by Greyhound and Trailways Bus Lines. Commuter service is available from the local airport to the major airports in Chicago.

The location of Valparaiso offers many advantages. Students of physical geography and biology profit by the fact that the city is situated on the crest of the Valparaiso Terminal Moraine and that it is within a few miles of the Indiana Dunes, Lake Michigan, and the marshes of the Kankakee River region. Students of the sciences, both physical and social, and of commercial studies find the nearness of the great Calumet Industrial District and of Chicago a great advantage. Field trips and inspection trips form a regular part of the course of study in several departments.

Since Chicago can be reached in approximately an hour by car or railroad, many students also take advantage of the cultural opportunities offered by the great libraries, museums, art galleries, and concert halls of that city.

Students interested in outdoor life find the small lakes nearby and Lake Michigan, which is only twelve miles away, a great advantage.

ACCRREDITATION. Valparaiso University is fully accredited by the North Central Association of Colleges and Secondary Schools for the offering of bachelor's and master's degrees. The undergraduate and graduate programs for the preparation of teachers are approved by both the Indiana State Department of Public Instruction and the National Council for Accreditation of Teacher Education. Valparaiso's offerings are further accredited by the National Association of Schools of Music and approved by the American Association of University Women.

The School of Law is a member of the Association of American Law Schools and is approved by the American Bar Association.

The College of Engineering is fully accredited in all its degree programs by the Engineers' Council for Professional Development, and is an institutional member of the American Society for Engineering Education. The College of Engineering has a local chapter of Tau Beta Pi, the national engineering honorary fraternity, on the campus.

The College of Nursing is accredited by the Indiana State Board of Nurses' Registration and Nursing Education and by the National League for Nursing.

The University is a member of the American Association of Colleges for Teacher Education, the American Council on Education, the Association of American Colleges, the Council on Social Work Education, and the Lutheran Education Association.

MOTTO. Valparaiso University's emphasis on the cultivation of the spiritual nature of men and women is summarized in its motto: "In thy light we see light."

The ministry of Word and Sacraments centers in the Chapel of the Resurrection. A ministry is carried on also in the residence halls.
The Council hears alleged Honor Code violations and then makes a recommendation to the President of the University regarding guilt or innocence and any penalty. The Council is composed of students who are chosen by the incumbent members subject to the approval of the President of the University. The faculty reserves the right to abrogate the Honor System at any time.

**STUDENT PERSONNEL PROGRAM.** This program, which is under the supervision of the Vice-President for Student Affairs, coordinates the various services provided by the University for student welfare and development. These services include Office of the Dean of Men, Office of the Dean of Women, Health Services, Admissions, Financial Aid, Placement, Counseling Services, Valparaiso Union, Security, and Special Programs. A personnel file of each student is kept in the Office of the Dean of Men or Dean of Women.

**UNIVERSITY COUNSELING SERVICES.** Under the direction of the Dean of the Chapel a pastoral counselor is available every evening each week in the chapel. Here students may consult a counselor on any personal or theological concern (Chapel Counseling Center).

The professional staff offers a variety of services for all full-time students including individual counseling, testing and evaluation, encounter groups, special purpose groups, consultation, referral, and career information. Except for certain testing programs, services are provided without charge. All information at the University Counseling Center is kept confidential and is available only to the student's written request. A consulting psychiatrist is available through the Director or through the University Medical Center. The Chapel and University Counseling Centers function as administratively independent offices whose records are kept separate and confidential (University Counseling Center).

**PLACEMENT SERVICE.** The Office of Placement and Career Counseling offers assistance to Valparaiso graduates in securing employment and offers counseling to all students who may need assistance in making vocational choices.

As a member of National College Placement Association, the University has close contact with a wide variety of businesses, industries, and government agencies throughout the country. Each year, a large number of companies and agencies send representatives to the campus in order to interview seniors.

The Office keeps on file the credentials (personal data and references) of all graduates who register, without any charge.

Browsing racks at the Office contain a wealth of information regarding institutions, companies, and job opportunities.

The Teacher Placement Office gives assistance to beginning and experienced teacher candidates who have completed requirements for certification under the supervision of the Department of Education in Valparaiso University.

**ADVISORY PROGRAM.** Each entering student is assigned to an academic adviser to assist him/her in selecting a curriculum, meeting University requirements, and making the most of his/her studies.

In the College of Arts and Sciences, a student who has not declared a major is assigned a general adviser. As soon as a student declares a major, he/she is assigned to his/her major department for advising. The major field of study should be chosen by the beginning of the junior year at the latest. Students who are interested in teacher certification should declare that intention at the beginning of the freshman year if they desire to complete their degree and certification requirements in four years. The failure to take courses which anticipate the requirements of some fields of study may lengthen the time needed to complete degree requirements.

Each student must have the schedule signed by his/her academic adviser at the beginning of each semester before the schedule is filed with the Registrar. Subsequent changes in the schedule must also be signed by the student's adviser. The signature of an academic adviser simply indicates that the adviser has counseled the student.

**THE LUMEN CHRISTI MEDAL.** This medal is awarded to a lay person for distinguished service to Lutheranism. It is the highest honor Valparaiso University can bestow.

**AWARDS AND PRIZES.** Scholarship keys and cash awards are given each year by the Lutheran Laymen's League to the highest ranking graduating seniors. Of these awards, three are available in the College of Arts and Sciences, three in the College of Business Administration, three in the College of Engineering, three in the School of Law, three in the College of Nursing, and one for a graduating senior in the Lutheran Deaconess Program.

The Sloan Galleries of American Paintings annually award prizes to students for work done in the various media taught in the Department of Art. The Committee on the Sloan Fund, which determines the recipient, reserves the right to retain the works as additions to the Sloan Collection.

An annual scholarship award is presented by the Beta Nu Chapter of Pi Sigma Alpha, national honorary political science organization, to the political science major who has the highest average in at least 18 credit hours of political science at the completion of the seventh semester.

An annual scholarship award is presented by Rentner Senate of the Delta Theta Phi Law Fraternity to the pre-law student who, at the completion of his/her seventh semester, has the highest average in all collegiate work taken at Valparaiso University, provided that he/she has completed at least four of the seven academic semesters at Valparaiso University.

The Lauretta Kramer Award is given by Alpha Phi Omega to the graduating senior major in social work who has contributed most in social service to the campus and who is outstanding in scholarship, achievement, intelligence, and character.

The Walther M. Miller Memorial Prize is awarded to a student who has majored in German and demonstrated excellence and promise in German studies at Valparaiso University. This prize is awarded in memory of Dr. Walther M. Miller, Distinguished Service Professor of German Language and Literature.

**STUDENT ACTIVITIES.**

The Student Senate is empowered by the Instrument for Internal Governance of the University with executive, legislative, and judicial powers over the student body. It is composed of upper class student representatives and offi-
The ability to act effectively under stress, and self-discipline in times of achievement.

The Committee on Publications is responsible for policies and regulations of the publications of the Student Senate. These publications include The Torch, the official newspaper of the student body; The Beacon, the University yearbook; The Lighter, a variety magazine; and The Candel, a supplementary guide to undergraduate courses, published at the beginning of each semester.

The Committee on Broadcasting is responsible for the policies and regulations of the campus radio station, WVUR, (89.5 FM).

The Committee on Activities has as its purpose to develop, present and coordinate social, cultural, recreational and educational events and programs which shall broaden student acquaintanceships and improve student life.

The Committee on Residence has responsibility for the policies and procedures regarding residence hall use.

The Committee on Union Operations is responsible for the policies and procedures related to Union Building use.

Academic or Professional Organizations: American Society of Civil Engineers, American Society of Mechanical Engineers, Student Business Association, Chemistry Club, Engineering Society, Geography Club, Home Economics Club, Institute of Electrical and Electronic Engineers, Phi Mu Alpha—Music men, Physics Society, Pre-Med Society, Psychology Club, Sigma Alpha Iota—Music women, Social Services Club, Sociology Club, Student Education Association, University Players, Varsity Club.

Honorary Societies: Alpha Lambda Delta—Freshman women, Alpha Pi—Senior men, Alpha Psi Omega—Drama, Aurora—Junior women, Eta Sigma Phi—Classics, Gamma Theta Upsilon—Geography, Junior Men’s Honor Guard, Kappa Delta Pi—Education, Mortar Board—Senior women, Omicron Delta Epsilon—Economics, Phi Alpha Epimen—Journalism, Pi Sigma Alpha—Political Science, Sigma Xi—Research, Tau Beta Pi—Engineering, Alpha Epsilon Delta—Pre-Medical and Pre-Dental.

Miscellaneous Organizations: Gamma Delta, Gold Splash—Swimming, Highlights, Women’s Recreation Association, Young Democrats, International Relations Club, Mental Health Club, Young Republicans, Alpha Phi Omega, Women’s Service Organization.

Intercollegiate and Intramural Athletics. The programs of intercollegiate and intramural athletics are integral parts of the total educational program, giving all students the opportunity to participate in a variety of physical activities, and giving those students who have special aptitudes for certain sports many chances to achieve a high level of mastery.

Participation with proper guidance will give the students the chance to develop many sound qualities and attitudes: respect for discipline and rules and constituted authority, valuing of teamwork, capacity to lead and direct, the ability to act effectively under stress, and self-discipline in times of achievement.

For the non-participant—student, faculty, community, supporting constituency, and other friends of the University—the program of intercollegiate athletics serves as a rallying point, providing a common interest through which a common loyalty, a spirit of unity, and high morale can be created on and off campus.

The women’s division of the intercollegiate athletic program offers participation in basketball, gymnastics, field hockey, swimming, tennis, and volleyball. Membership is maintained in the Indiana Women’s Intercollegiate Sports Organization, Midwest Association for Intercollegiate Athletics for Women, and the Association for Intercollegiate Athletics for Women.

The men’s division sponsors intercollegiate competition in baseball, basketball, cross country, football, golf, swimming, tennis, track, and wrestling, and holds membership in the Indiana Collegiate Conference, Indiana Intercollegiate Athletic Association, and the National Collegiate Athletic Association.

The Director of Athletics is responsible to the President of the University through the Vice-President for Public and Alumni Affairs for the administration of the program. Participation policies are established by the University Senate on recommendation of its Committee on Intercollegiate Athletics.

The University is committed to a thorough and complete program of intramural athletics whose aim is to provide some sort of wholesome and stimulating athletic activity for every student. All students are invited to participate in the many different team and individual activities which are scheduled throughout the academic year. Co-recreational activities are included in this program.

Students are encouraged to participate in the planning and conduct of the intramural programs.

The University provides an experienced staff and takes every precaution to avoid injury to all participants in the intercollegiate and intramural programs; however, the University assumes no responsibility for accidents and students participating in intramural and intercollegiate athletics do so at their own risk.

The University Theatre, under the supervision of the Department of Speech and Drama, provides a means for creative activity in curricular and extracurricular areas. The work in theatre encompasses two objectives. First, it provides a program of cultural enrichment through active participation in plays; students become acquainted with great drama of the past and present, developing a sound critical sense. Second, it gives students practical training in acting and all phases of play production, including experience in various aspects of management and advertising.

The University Theatre annually presents four major stage productions, one of which is a musical. Students are thereby given training in specialized forms of acting. These major productions are supplemented by studio and one-act plays which are classroom productions directed by students in play directing and special project courses.

Musical Opportunities: Musical organizations of the Department of Music are open to qualified students from all disciplines. The choral organizations include the University Choir, the Schola Cantorum, the University Choral Soc-
ety, and the Chamber Choir. The University Choir and the Schola Cantorum perform the finest in choral literature both sacred and secular. The primary function of the Choral Society is to prepare large works for performance with the University Orchestra. A Chamber Choir provides service music for the Chapel and performs small choral chamber works.

The University-Civic Orchestra and the University Chamber Orchestra appear in several concerts each year in which students, faculty, and guests often appear as soloists. They assist the University Choral Society in the production of large-scale choral works and participate in opera productions. The Concert and Symphonic Bands are dedicated to the performance of the best in band literature. The Marching Crusaders Band and the Pep Band provide music for athletic events, and the Jazz-Lab Band provides a workshop in jazz literature.

The Opera Workshop is an ensemble class for gifted singers devoted to the study and performance of major operatic works. Chamber music groups are open to students who can qualify by audition. The Collegium Musicum specializes in the performance of works outside the standard choral and instrumental repertoire. A number of instruments are available to students enrolled in the above ensembles.

The department annually sponsors a church music seminar and numerous instrumental and vocal workshops. Tours by instrumental ensembles and choirs have become annual events. University choirs toured in Europe in 1963, 1965, and 1971.

Students may enroll for applied music lessons upon payment of an applied music fee. Registration for applied music entitles the student to practice room facilities.

**Service Opportunities** offered by Alpha Phi Omega, Women's Service Organization (WSO), and a number of other organizations give students opportunity to extend service to the University community.

Specially qualified upperclass students are eligible for positions as counselors in the residence halls.

**Alpha Phi Omega** is the nation's largest service fraternity assembled to develop leadership, promote friendship, and render service to the campus, community, and nation. Valparaiso Zeta Gamma Chapter, founded in 1948, maintains an office at 818 Mound Street. Although Alpha Phi Omega is a service fraternity, its program aims at the development of the individual through both service and social events. Membership in this, the world's largest fraternity, in no way interferes with membership in a social fraternity. Pledgeship involves no hazing, but is instead a period of constructive service.

**Women's Service Organization** was established for the purpose of providing service to campus and community and to promote friendship and good will to all. Membership is open to all women irrespective of their course of study or affiliation with other organizations.

WSO maintains an office at 818 Mound Street. Pledgeship consists of a period of preparation and training in the ideas and purposes of Women's Service Organization.

**Fraternities and sororities** on this campus are more than simply social clubs.
Offering academic challenge, the close friendship of “brothers” and “sisters,” athletic competition at the intramural level, opportunities for community service projects, as well as a comfortable social atmosphere, fraternities and sororities add much to the college education of some students. Fraternity and sorority members are actively represented in student leadership, athletics, and professional organizations.

The Dean of Women is the official adviser to the sororities and the Interfraternity Council. The Dean of Men is the official adviser to the fraternities and the Interfraternity Council.

The Valparaiso Union, on the new campus, is the center of social activity. The Union is the living room of the campus; it is a place to relax, to meet friends, to bring visitors.

Among the many facilities of the Union is the short-order counter, providing meals, snacks, and late evening refreshments. Private dining rooms are available too, for special dinners.

Other facilities are the social and banquet hall and art gallery. There is also a game area with four bowling alleys, tables for billiards, pool, and table tennis.

Offices of the Student Senate and student publications are located in the Union as are the offices of other student organizations.

The meeting rooms in the Union are used by all campus organizations, and many services are offered to various campus groups.

SOCIAL ACTIVITIES. The University is operated on the assumption that a sound and interesting social program is an important part of student life. The Director of the Valparaiso Union acts as general adviser for all social events. Students share in the responsibility for arranging the all-campus social program through the student Committee on Activities. In the various residence halls, there is a social program under the supervision of the residence hall directors and their social program committees. Sororities and fraternities have numerous social events. The center of social activities is the Valparaiso Union. Parties, picnics at the Dunes State Park, ski trips, concerts by professional performers, annual winter carnivals, and other activities contribute to a well-rounded social program.

LECTURES.

The John Martin Gross and Clara Amanda Gross Memorial Lectures, established by Mr. and Mrs. Walter H. Gross, are delivered annually by outstanding religious leaders to the entire University community.

The J. W. Miller Memorial Lectures, delivered during Reformation Week by prominent religious leaders, were established in memory of Pastor J. W. Miller, who was an important influence in establishing Valparaiso as a Lutheran university.

The A. J. W. and Elfrieda M. LeBien Endowment Fund for Lectures on Liturgy provides income for lectures on liturgy and for publication of brochures related to the Chapel.

The O. P. Kretzmann Lectureship in Christian Ethics, established in honor of the late President Emeritus, is delivered annually. The topics and speakers each year will be designated by the President of the University, after consultation with his advisers. Earnings from the O. P. Kretzmann Memorial Fund will underwrite the expenses. At the direction of the President of the University, the lectureship may periodically be replaced with a memorial sermon on a topic related to Christian faith and social issues.

The Percy H. Sloan Memorial Lectures in Art, established as a memorial to Percy H. Sloan, who endowed the Sloan Galleries, are presented by prominent artists and art critics.

University Lectures on various topics of current interest are presented from time to time at University convocations as an integral part of Valparaiso’s educational program.

THE SLOAN GALLERIES OF AMERICAN PAINTINGS. The Galleries and their extensive collection of works by American artists are located in the Henry F. Moellering Memorial Library. The collection and a fund for its maintenance and expansion were gifts to the University from Spencer and Percy H. Sloan in memory of their parents, Junius R. and Sara L. Spencer Sloan. Approximately four hundred paintings in this collection are in constant exhibition in the Galleries and throughout the campus, making a significant contribution to cultural life. In addition, the Galleries maintain a schedule of visiting exhibitions representing various aspects of American art.

UNIVERSITY LIBRARY FACILITIES. The Henry F. Moellering Memorial Library, the general library of the University, contains over 250,000 standard volumes, bound periodicals, and microforms. It receives over 1,000 periodicals and is an associate member of the Midwest Periodical Bank. The Library has also a depository for selected documents of the government of the United States and of the State of Indiana. In addition, as a depository library it has approximately 100,000 maps of the U.S. Geological Survey and the Army Map Service. The book stacks are open to all students, and the reading rooms are air-conditioned. Musical and literary recordings are available in a separate reading room. The University Archives, Instructional Materials Center, and Developmental Reading Laboratory are located on the lower level of the Library.

The Curriculum Library is located in the J. W. Miller Hall, and the library of the School of Law, in Wesemann Hall.

THE CAMPUS. Seventy instructional, residential, and service buildings are located on the 310-acre campus of the University. The buildings and grounds are valued at approximately thirty-five million dollars.

The 46-acre campus purchased by the Lutheran University Association in 1925 now is known as West Campus. The newer East Campus has been acquired and developed by the University Board of Directors since 1944. Southeast from it across U.S. Highway 30 is the Alumni Campus, a 52-acre tract acquired by the Alumni Association and presented to the University as a Centennial gift in 1959. Eastward across Indiana Highway 49, a 58-acre extension of the East Campus was developed in 1969 with the construction of eight all-purpose intramural fields, a hard surface track, and a varsity baseball facility. Additional physical education, intramural, and intercollegiate athletic facilities are planned here.
Chapel of the Resurrection. At the center of the University's developing campus and of its activities, is the largest university chapel in North America. Funds received from members of the Lutheran Church—Missouri Synod, alumni of the University, members of the Valparaiso University Guild, and many others made possible the construction of this Chapel seating over 3,000 persons. First used in the fall of 1958, the structure was dedicated September 27, 1959.

The Baptistry, at the foot of the circular staircase leading from the narthex, includes a five and one-half ton font made of a single block of Rockville granite, a paschal candlestand, and a 17-foot hanging sculpture made of torch-fired bronze. The Music Window, crafted in Cologne, Germany, and rising more than 55 feet in the center front of the Chapel, is the gift of Mr. and Mrs. Richard E. Meier. The Chancel Windows, also crafted in Cologne, are gifts of Mr. and Mrs. Alfred C. Munderloh. The Fred and Ella Reddel Memorial Organ has a movable console and 70 ranks, with potential for expansion; among its unique features is a 61-pipe copper Trompeta Real. The pulpit was given by the family of the Rev. Louis G. Nuechterlein as a memorial to his ministry. The altar and altar rail were a gift of Mr. and Mrs. Len C. Heine. The Christus Rex, a symbolic representation of Christ's victory over death, is a memorial to Miss Elizabeth Selle, a former student at the University. The Chapel office, at the west side of the narthex, and the Baptistry were gifts of Mr. and Mrs. A. J. W. LeBien.

The August H. and Ella Louise Brandt Campanile, flanking the Chapel and towering to a height of 143 feet, sounds out the passing hours and the calls to worship with the notes of a 61-bell electronic carillon, a gift of the University Guild.

The Henry F. Moellering Memorial Library. Dedicated on December 6, 1959, the library is a gift of Mrs. Henry F. Moellering of Fort Wayne, Indiana, and her children. Supplementary funds were provided by the Lilly Endowment, Inc., of Indianapolis and the Kresge Foundation of Detroit. An addition was completed in the fall of 1969. A two-story structure with three stack levels, the original library provides reading space for 500 persons and shelf space for more than 200,000 volumes. The addition provides space for 160 individual study carrels, including several private carrels for graduate students and faculty members engaged in research, and shelf space for 70,000 volumes. The lower level contains stacks, archives, seminar rooms, faculty lounge, instructional materials center, rare books, and an educational laboratory. The main level consists of two large reading rooms, lobby, circulation desk, catalog file, lounge, offices, stacks, receiving room and workroom. The Sloan Galleries of American Paintings are located on the main floor.

Alumni Hall is a residence hall for men and women, first occupied in 1966. The room only fee is $335.00 per semester. Women will be housed on the upper floors and men on the lower floors.

Art-Music Building, formerly the Engineering Laboratory, was designed, financed, and constructed by students in 1949. It is now remodeled for use by the Departments of Art and Music.

Bogarte Hall contains classrooms and offices for the Department of Speech and Drama.
Heritage Hall contains several small classrooms, a large general classroom, student lounge, and administrative and faculty offices.

Kreinheder Hall is a residence hall, octagonal in shape, for 164 freshman women, constructed in 1955 as a twin to Dau Hall, to which it is connected by coed dining and commons rooms which were added in 1964. The room only fee is $335.00 per semester.

Kroencke Hall, completed in 1952, provides classrooms, a small theatre-auditorium, and laboratories for the Department of Speech and Drama, as well as classrooms and offices for the Department of Geography. An addition, in 1966, provides space for classes in stage design, costume design, and make-up, as well as storage for theatre properties and costumes.

Lankena Hall is a residence hall for 332 women, first occupied in 1964. The room only fee is $335.00 per semester.

LeBien Hall is named for University benefactors, Mr. Alfred J. W. and his wife, Elfrieda M. LeBien. The College of Nursing building is located less than a block from Porter Memorial Hospital, and contains large lecture-demonstration classrooms, a multi-purpose room, seminar rooms, offices, and lounges. It was first occupied in 1970.

Lemke Hall contains an art laboratory, a psychology laboratory, and faculty offices.

Loke Home Economics Center, the gift of Mr. and Mrs. Edgar William Loke and other friends, was first occupied in 1968 and contains three large laboratory-classroom areas and six offices.

The Medical Center, formerly the Health Service Building, adjacent to Scheele Hall, is a former private home renovated to accommodate the offices of the Medical Director and his staff.

Dr. Richard E. and Oma Meier Hall is a one-story brick building, completed in 1968, which has 18 classrooms, a language laboratory, and offices for faculty members.

Memorial Hall, a residence hall for women, was built with Guild Hall in 1947. The room only fee is $335.00 per semester. The Computer Center is located in the north wing on the ground floor.

J. W. Miller Hall, the former elementary school building of Immanuel Lutheran Church, Valparaiso, was purchased and renovated for teacher education purposes in 1968.

Moody Laboratory, completed in 1946, houses psychology laboratories.

Julius and Mary Neils Science Center, a gift of the Neils family, contains offices, laboratories, and research facilities for the Departments of Biology and Chemistry. The first unit was completed in 1967. The second unit, called the Oswald W. and Erna Klingsick Hall Addition, was completed in 1973 and houses new facilities for the Department of Physics and contains several general classrooms and a large auditorium.

Scheele Hall, a five-story residence hall accommodating 322 sorority women and providing sorority-allocated lounges, was first occupied in 1961. The room only fee is $335.00 per semester.
Students taking private music lessons are held responsible for making arrangements with the instructor to complete all lessons during the semester. If the student is unable to complete within the semester the series of lessons for which he/she was assessed, a report should be made immediately to the chairperson of the department by the student.

*TUITION AND FEES FOR PART-TIME STUDENTS (Undergraduate and Professional Programs). Students who register for no more than 9 credit hours are classified as part-time students.

Such students pay a tuition charge of $86.00** per credit hour, regardless of the college or school of the University. This charge does not include the use of facilities of the health service nor participation in the student insurance plan.

Students who initially register as part-time students and subsequently increase their registration load (other than audited courses) will be charged tuition and fees in accordance with policies which pertain to their revised program.

Auditors pay $82.00 per credit hour equivalent.

Tuition and fees for students enrolled only in courses in the Evening Division offered by the University are listed in the separate publication issued by the Director.

HOUSING REGULATIONS. The University's regulations require all freshmen, sophomores, and juniors*** to live in University residence halls. Exceptions are made for veterans, those who at the fall registration will be 21 before the next January 1, those living with parents or spouse, and sophomore and junior fraternity men who live in a fraternity house.

Students (seniors, graduate, and law), other than married students, may apply to live in University residence halls. It should be noted that the halls are open and closed according to the undergraduate calendar, which is often different from the calendars of the School of Law and/or the Graduate Division. Students in all these categories may examine in person in the Housing Office a listing of rooms in private homes, apartments, and homes for sale or rent. Every landlord whose property is listed has signed a non-discrimination statement. Students desiring such accommodations should plan to visit campus at least six weeks prior to the semester of enrollment to inspect the available listings and make arrangements with the individual landlords. These listings are not provided by mail nor over the telephone. The University is not involved in arrangements between students and landlords, except in the event of racial discrimination.

Application for University housing is mailed to each new student with the Permit to Enter form. This application and the $50.00 housing deposit should be returned to the Admissions Office as soon as possible (former students returning should mail their deposit to the Business Office). All checks should be made payable to Valparaiso University Association, Inc. A student who occupies a room in a residence hall will have $50.00 credited to his/her entire account. All returning students for whom the University can provide housing in its own residence halls, and who desire such accommodations for the Fall Semester, are required to make an advance room deposit of $50.00 on or before the date indicated by the Housing Office.

Assignments to a residence hall will be made by the Housing Office in the order in which they are received. The University will endeavor but cannot guarantee to assign accommodations according to the preferences indicated by the student.

Refunds of $25.00 will be given if a written notice of cancellation is received by the Housing Office on or before June 1 for new students and July 1 for returning students for the Fall Semester. No refund will be given after these dates. If a student is denied admission or readmission or if the University should be unable to provide housing, the full amount of the deposit will be refunded.

An Agreement is entered into by each student assigned University housing which makes it mandatory for him/her to occupy the residence hall space assigned for both semesters of the school year excluding vacation periods. The student is permitted to move out of the residence hall only if he/she withdraws from the University or graduates.

Roommate preferences should be listed on the housing application. Freshmen are notified in July of their roommate assignments. The specific room number in the residence hall will be given when the student arrives on campus.

Arrival at the residence hall for new freshmen and new transfer students should coincide with the first day of orientation activities, to be announced later. All students are expected to report immediately to their assigned residence hall when they arrive on campus for specific room assignment. Luggage may be sent a week prior to the opening of the residence halls. Any changes in the residence hall assignment must be submitted in writing and receive permission from the Housing Office. No guest accommodations are available in the residence halls.

All rooms in the University residence halls are provided with the necessary basic furniture. Occupants generally supply their own bedding, pillows, towels, lamps, and throw rugs if desired. Coin operated washers and dryers and ironing boards are also provided within each residence hall. Several laundries and dry cleaning establishments are located adjacent to the campus. Many students use the optional linen service from a local firm which provides fresh linen (sheets, pillowcases, towels, and wash cloths) each week. A blanket rental service is also available from the same source. Draperies are provided. Further information is available from the Housing Office.

The University residence halls are under the care of resident directors. All students residing in University-owned residence halls and houses are financially responsible for damage to rooms and equipment. Residence hall directors report such damage to the Business Office and the student or the parent is billed for the cost of repair or replacement.

The University reserves the right to make changes in residence hall assignments if necessary for the most effective accommodation of the student body.
DINING FACILITIES. The University operates dining facilities in the Valparaiso Union and selected residence halls for the convenience of the students. Service will be available during periods of scheduled classes. When service is not provided in a residence hall, students residing in such halls may participate at a neighboring dining facility.

Freshmen living on campus in the residence hall system will be required to contract for a meal plan covering Monday breakfast through Friday dinner (fifteen meals per week) at a cost of $315.00 per semester. An optional plan of twenty meals is available at a cost of $385.00 per semester covering the period of Monday breakfast through Sunday noon.

Other students may contract for a board plan at the same rates, or they may pay cash for each meal, or purchase meal coupon books which can be used at the Union or at the residence hall providing a-la-carte service.

Information on type of service to be provided in residence halls will be made available each year prior to registration and room reservation time.

ESTIMATE OF EXPENSES.

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<tr>
<th>College of Arts and Sciences</th>
<th>Average Cost Per Semester</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Rent of Room and Board</td>
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<tr>
<td>Lab. Fees, Books, and Supplies</td>
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<th>College of Business Administration</th>
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<th>College of Engineering</th>
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<tr>
<th>College of Nursing</th>
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The expenses for each academic year (two semesters) are approximately twice the above semester figures.

Clothing, travel, incidental expenses, fees for applied music lessons, and special fees** are not included in these estimates.

Amounts due the University are payable in full at the time of registration for each semester.

*The student is responsible for providing transportation whenever it is necessary for off-campus clinical experience. Access to a car is necessary during the junior and senior years.

**See Special Fees, p. 29.
Parents are billed approximately three weeks prior to registration with an invoice containing the estimated charges for the coming semester. Either payment or evidence of participating in an approved education expense payment plan as outlined below must be received in the Business Office a week prior to registration. The minor adjustments in the billing required by additional course fees, for example, are detailed in a statement forwarded to the invoice containing the estimated charges for the coming semester. Either payment or evidence of participating in an approved education expense payment plan as outlined below must be received in the Business Office as indicated below. Refunds on tuition and room rent are made until seven weeks after the first official day of classes of a semester. If a student is dismissed, there is no refund due. General, special, and laboratory fees are never refunded.

**EDUCATIONAL EXPENSE PAYMENT PLANS.** Parents of Valparaiso University students may select one of the following commercial plans for the payment of educational expenses:

(a) **The Tuition Plan,** Concord, New Hampshire 03301.

Any amount for University expenses may be borrowed, and later adjusted, for a 1-4 year plan. Payments starting in October may be spread over a 12 to 72 month period. The annual interest rate ranges from 14 to 18%. A prepayment plan (non-borrowing) provides that payments for each school year may begin in any month from January to July. The Tuition Plan forwards payments to the University in accordance with its agreement. Life insurance on the wage earner parent is available to cover the balance of the contract in the event of the death of the wage earner.

(b) **Education Funds, Inc.—Fund Management, Suite 3200, Prudential Plaza, Chicago, Illinois 60601.**

Any amount for University expenses may be budgeted for one year at a time. The borrower makes ten payments per year, starting in June. There is no interest charge, only a one-time charge of $25.00. The company forwards payments to the University.

(c) **Insured Tuition Payment Plan, 53 Beacon Street, Boston, Massachusetts 02108.**

This organization has made monthly payment programs available at schools and colleges since 1953. These programs protect the student's educational plans with life and disability insurance on the parent.

The Insured Tuition Payment Plan is a monthly savings plan under which money held for payment to the school earns 5% interest for you. You pay as you go. Therefore, early enrollment provides smaller monthly payments.

The Extended Repayment Plan is a loan plan which allows you to extend your monthly payments beyond the date the student graduates. (12% interest on loans.)

**PAYEE.** Drafts, checks, and money orders, should be made payable to the Valparaiso University Association, Inc.

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**SPECIAL FEES.**

**Application—$10.00.** This fee is payable at the time of application for admission to the University. It is not refundable.

**Readmission—$5.00.** This fee is payable at the time of application for readmission to the University. It is not refundable.

**Automobile Registration—$10.00.**

**Matriculation—$5.00.** This fee is payable only once, when the student registers in the University.

**Graduation—$15.00, payable at the time formal application for a degree is filed.**

**Developmental Reading Program—$45.00.**

**Transcript—No charge is made for the first transcript issued. For each additional transcript, the fee is $2.00. No official transcript of a student's record is released until the student has met in full his/her obligations to the University.**

**Late Registration—$40.00.** This fee becomes effective after the close of the last official day of formal registration. In no case will late registrants be exempted from this fee, unless for valid reasons they have been given written authorization for exemption by the Vice-President for Student Affairs.

**STUDENT SENATE FEE.** This fee is collected by the University each semester and is allocated to the Student Senate. This entitles the student to participate in the activities conducted by the Student Senate and its committees. This includes lectures, entertainment, publications, University Radio Station, and other activities sponsored by the Student Senate.

**FINANCIAL AID.** This program at Valparaiso is intended to provide financial assistance to students who, without such aid, would be unable to attend.

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*Based on the day the application to withdraw is submitted to the Office of the Registrar.

See p. 62.

**For School of Law—$20.00.**
the University. In selecting the students to receive this assistance, the University places primary emphasis on the student’s academic achievement, character, and future promise. Financial aid consists of scholarships, grants, loans, and campus employment which may be offered to a student singly or in various combinations. The family of a student is expected to make a maximum effort to assist him/her with college expenses. Assistance awarded by Valparaiso should be viewed as supplementary to the effort of the family, and will not exceed the need of the candidate.

In order to assist in achieving these objectives, the University participates actively in the College Scholarship Service of the College Entrance Examination Board. It supports the principles and practices of this organization and requires that the parents of all aid candidates submit the Parents’ Confidential Statement of the College Scholarship Service.

Types of Awards.

Scholarships. Normally a student qualifies academically for a scholarship when ranked in the upper ten per cent of the graduating class and has reported scores on the Scholastic Aptitude Test of the College Entrance Examination Board which clearly indicate that he/she should be able to maintain a 3.0 average at Valparaiso. Scholarships vary in size up to full tuition.

Academic Grants. Students who need financial assistance and are expected to do better than average academic work may receive an academic grant.

Grants-In-Aid. Grants-in-aid are available to students in critical need of financial assistance and who are expected to maintain at least a 2.0 average at Valparaiso.

Educational Opportunity Grants. Provided for in the Higher Education Act of 1965, Educational Opportunity Grants are awarded to students whose families can assist them to only a limited extent. The size of the grants varies according to the computed amount of parental contribution from income and assets.

Campus Employment. Students are employed on campus as departmental assistants, library workers, dormitory receptionists, typists, stenographers, maintenance workers, and cafeteria workers. Salaries range from $100 to $400 per academic year. The College Work-Study Program, created by the Economic Opportunity Act of 1964, funds some of the campus employment.

Assignments will not be made to the detriment of the student’s academic success.

Loans. Valparaiso participates in the well known National Direct Student Loan Program, through which a student may borrow at an interest rate of 3% with repayment of principal and interest deferred until the termination of his/her full-time college attendance. A student may borrow up to $1,000 per year depending on need. If the borrower teaches after graduation, the loan may be cancelled at the rate of 10% for each year he/she teaches, to a maximum of 50%.

A smaller number of student loans are privately administered by the University.

Renewal. All financial assistance requires a yearly application, including the filing of a Parents’ Confidential Statement. Renewal depends on continued need and the availability of funds. In addition, the minimum academic requirement for an academic scholarship is 2.8 and for grants-in-aid, 2.0. Academic deficiency precludes a student from receiving financial assistance.

Method of Application. The following procedure should be followed by any student entering the University for the first time who wishes to apply for financial assistance:

1. File an Application for Admission with the Director of Admissions. No student may be considered for scholarship until his/her formal application has been approved.

2. Submit a Parents’ Confidential Statement to the College Scholarship Service with Valparaiso University being listed as an institution to receive a copy and its analysis. This form may be secured from your high school guidance office or by writing the Office of Financial Aid, Valparaiso University.

The filing of the PCS should be completed at the time of application for admission or as soon as possible thereafter. The Committee on Financial Aid cannot guarantee aid consideration for those students whose PCS is filed later than March 1.

3. Take the Scholastic Aptitude Test (morning section) of the College Board Examination. These scores are necessary for admission approval as well as for aid consideration.

Scholarships. Listed below are the specific scholarships awarded annually by Valparaiso University. The largest portion of the awards available are University Scholarships. Recipients of these specific scholarships are selected from the total group of applicants who have completed the regular application procedure. By completing this application, a candidate may assume that he/she will automatically be considered for whichever of these restricted awards he/she is eligible. If additional information is required of him/her, he/she will be contacted after he/she has filed the standard application for financial assistance.

University Scholarships. In addition to the specific endowed, donated, and other scholarships listed below, the Board of Directors annually authorizes hundreds of scholarships ranging in value from $100.00 to $1,500.00 a year.

Honorary Citation. $100.00 one-time awards—students with no need.

The Charles P. Addis Scholarship. It is to be awarded to a student athlete from the greater Rockford area in the amount of $2,000.00 annually.

Aid Association for Lutherans. Competitive Nursing, All College, Lutheran Campus, and Lutheran American Minority Scholarships.

Mr. and Mrs. Oliver W. (Emma) Allen. Preministerial student—$600.00 annually.

Alpha Phi Delta Sorority—Upperclass sorority member.

Anna B. Althans. Social work major—Annual award.
Amoco Foundation, Inc. Scholarship. Awarded to one or two deserving students; they should be either in their junior or senior year and majoring in Mechanical Engineering.

The John W. Anderson Scholarship. Annual awards are made to students in the College of Nursing. Preference will be given to students from the Northwest Indiana area.

Reverend Theodore and Vera Andres Scholarship—Annual award.

Herbert C. Bartelt Scholarship. Valparaiso University senior student who plans to enter the Lutheran Ministry by way of Concordia Seminary in St. Louis, Missouri or Springfield, Illinois.

Dr. and Mrs. Henry Frederick Beckman. Resident of Indianapolis, Indiana—Annual award.

The Benz Basketball Scholarship. Awarded to a member of the University’s intercollegiate basketball team.

Charlotte Berns Scholarship—College of Nursing—Annual award.


The Charles H. and Elizabeth Blume Endowed Scholarship. Preference given to students from Northwest Indiana.

The William F. and Martha Boeger Memorial Scholarship. Varying amounts for needy students.

(Mrs.) Amalie Bokerman. Resident of Pennsylvania—Annual award.

John V. Borgerding. Resident of greater Pittsburgh or Pennsylvania—Annual award.

Julius C. Bruechner Scholarship. Any student in need of assistance.

Luella R. and Herbert P. Buetow Scholarship. Worthy student(s) who plans to enter upon a career in the broad service of the Church. The award will be made on the basis of academic ability, character, future promise, and need for financial assistance.

Robert F. Connell Memorial Scholarship. Annual award—School of Law.

The Emma E. Claus Scholarship. Amount and number to vary depending upon the earnings of the established fund. Students participating in the Christ College program are eligible.

The Kenneth Bayard Copeland and Todd Cushman Memorial Family Scholarship. The income from this endowed scholarship to be awarded annually with preference given to engineering and pre-medical students.

The Arthur Vining Davis Scholarship. Amount and number to vary depending upon the earnings of the established fund.
Alpha Gamma Chapter of Delta Kappa Gamma. Senior woman resident of Porter, Jasper, Newton, or Pulaski Counties in Indiana—$125.00 annually.

Sophie Doern Scholarship—Annual award.

The Donald W. Dopp Memorial Scholarship. The income from this endowed scholarship, established with gifts from members of the Dopp family, to be given annually to Michigan residents, preferably from Macomb County.

The Wilbur C. Dopp Memorial Scholarship. For employees of Dopp Distributors, Incorporated, or for an employee's son, daughter, or grandchild.

Reverend and Mrs. P. J. (Myrtle E.) Eckstaedt. Annual award.

Carl and Bertha Eigert Scholarship. Outstanding students. Awards made on the basis of academic ability, character, and need.

Ernst & Ernst Scholarship. Student of outstanding ability and potential based on scholarship, leadership, character, extra-curricular activities, etc., accounting major and show preference for public accounting. Financial need is not a criterion.

Robert Elmore Findling Memorial. Engineering student—$100.00 annually.

First Federal Savings and Loan Association of Valparaiso. Porter County, Indiana residents—Annual awards.

First National Bank, Valparaiso. Residents of Porter County, Indiana—Annual award.

The Henry W. Flemming Scholarship. For qualified students from the Rochester, New York, area, if possible—Annual award.

The Edith Schuchardt Forsberg Family Memorial Scholarship. Established by Harvey B. Schuchardt. Preference given to students from the Wisconsin area.

Frank Freimann Engineering Scholarship. Full tuition, fees, and books for engineering students.

Dr. and Mrs. E. C. Galsterer. Resident of Saginaw, Michigan or Saginaw Valley.

Gast Manufacturing Corporation. Resident of Southwestern Michigan, if possible—majoring in engineering—$1,000.00 annually.

General Motors Corporation. Candidate outstanding in scholarship, character, and leadership—full expenses for four years awarded every other year.

The Henry C. and Ura E. Guhl. Annual award.

Harvey Scholarship. Pre-osteopathic major, if possible.

The Dr. Karl H. Henrichs Scholarships. For Lutheran or other students. The scholarship sponsors are Mr. and Mrs. Henry J. Moellering. The amount and numbers will vary depending on the earnings of the established funds.

Herman C. Hesse Scholarship. Three annual awards. The awardees to be noted as Hesse Scholars.

The Mrs. Charles H. Hickman Scholarship—In memory of her husband. The amount and numbers will vary upon the earnings of the established fund.

Mary Hilgemeier. Preferably a member of Emmaus congregation, Indianapolis, Indiana—$200.00 annually.

The Walter S. Hillpold Endowed Scholarship. Annual award. The amount and number will vary depending upon the earnings of the established fund.

Hoepner, Wagner, and Evans Scholarship. Financial awards administered by the School of Law's Financial Aid Committee and made on an annual basis to one student from each of the second and third year classes.

Richard J. Hoerger Scholarship. Interest—government. The amount and number will vary depending on the earnings of the established fund.

The Clara A. Holeman Scholarships. Varying amounts for needy students in the fields of chemistry and medicine.

Oscar Homann. Preference to resident of Illinois—Annual award.

The President and Mrs. A. G. Huegli Endowed Scholarship. Established in their honor by their children.

Joyce Huegli Endowed Memorial Scholarship. Preference for students in the College of Nursing. The amount and numbers will vary upon the earnings of the established fund.

Indiana Home Economics Association. $350.00 scholarship to upperclass student, rotated alphabetically among privately supported institutions that offer degree in home economics.

Judge and Mrs. F. A. Jaeckel Memorial. Annual award.

Richard F. and Martha W. Jeske. Annual award.

Edward Jiede, Jr. Annual award.

Mr. and Mrs. Emil Jochum. Scholarships in varying amounts up to full tuition annually for students from Ohio, preferably Cleveland and vicinity.

Kappa Kappa Kappa. Senior girl from Valparaiso High School—Annual award.

Mr. and Mrs. Victor Kirsch. $1,000.00 annually.

Erra E. Koenemann (Mrs. Henry F.) Scholarship Fund. Preference given to students in the College of Nursing.

Koinonia Scholarship. Junior or senior student in the Lutheran Deaconess Training Program—$300.00 annually.

The Jayne Hoffmann Kraegel Memorial Scholarship. The amount and number of awards will vary depending upon the earnings of the established fund. Preference will be given to students with an interest in journalism.

The Mr. and Mrs. Gilbert W. Krause Athletic Scholarship. Preference will be given to students with outstanding athletic and academic records. The scholarship was established by members of their family on the occasion of their fortieth wedding anniversary.

The O. P. Kretzmann Scholarship Fund. Established by the Class of 1970 to honor Dr. O. P. Kretzmann.

William H. Kroeger. A resident of Akron, Ohio—Annual award.
The Walter H. Kroehnke Scholarship. Annual award. Preference given to students in the College of Business Administration. Established with gifts from the Reverend and Mrs. Justus P. Kretzmann and other members of their family.

Frederick William Kroencke Memorial. Upperclass student.

Krueckenberg Family Scholarship. Awarded annually, on the basis of merit or need, to a student from Wisconsin, preferably from the Clintonville area.


Earl F. Landgrebe. $275.00 annually.

Mr. and Mrs. Erwin A. Lange. Major in College of Business Administration or Department of Mathematics—Annual award.

The Langer Basketball Scholarship. Awarded annually to a member of the University's men's intercollegiate basketball team.

A. J. W. and Elfrieda M. LeBien. College of Nursing students. The amount and the number of recipients will vary depending on the income realized from the established fund.

The Ernest and Clara M. Lichtfuss Endowed Scholarship. Annual award depending on the earnings of the established fund.

John A. Liechtli Scholarship Fund. Any student in need of assistance.

Nancy Lieneck Memorial Scholarship. For a fourth year female student in the area of social work or special education.

Carl F. Lindberg Memorial. Student in elementary education and student in secondary education—two awards in varying amounts annually.

Mr. and Mrs. Erick Lippert. Annual awards.

The Mr. and Mrs. Orval M. Lohse Scholarship. Preference given to students from Kansas. Amount and number of recipients will vary depending on the income realized from the established fund.

Mr. and Mrs. J. A. Long. Resident of Central Illinois—$200.00 annually.

Lynette and Norman Luekens Scholarship. The income from this endowed scholarship to be awarded annually with preference given students from the Greater Cleveland area.

Lutheran Brotherhood. Senior College Scholarship for Lutheran students and Lutheran Brotherhood Members' Scholarships.

Lutheran Colleges Law School. Students in or graduates of Lutheran colleges and universities throughout the United States—each award full tuition.

Lutheran High School Principals' Scholarship. Awarded to Lutheran high school seniors who are selected by their principals.

Lutheran President's Scholarship. $1,000.00 scholarships will be awarded annually in the names of the respective church body presidents of each of the major Lutheran church bodies in America.

Dr. E. W. Marquardt. Annual award.

The G. H. Maskus Endowed Scholarship. Annual award. The amount and number will vary depending upon the earnings of the established fund.

May Stone and Sand, Inc. Resident of Fort Wayne, Indiana—Annual awards.

Charles A. Maynard Memorial. Student majoring in the College of Engineering—$500.00 annually.


The Ernest A. Menzel Endowed Scholarship. Annual award. The amount and number will vary depending upon the earnings of the established fund.

Mr. and Mrs. Dirk Meyer. Resident of Pekin, Illinois—Annual award.

Gerhard F. Meyne Scholarship. The amount and numbers will vary depending on the earnings of the established funds.

Helen Miller Scholarship Fund. This scholarship is to benefit a student from St. Paul Lutheran Church, Napoleon, Ohio.

Henry F. Moellering. Resident of Fort Wayne or Allen County, Indiana—Annual award.

The Dr. and Mrs. Robert C. Moellering, Sr. Scholarship. Preference given to music majors or engineering students. The amount and numbers will vary depending upon the earnings of the established fund.

The H.F.C. Mueller Scholarship Fund. Awards are to be given to eligible students who have completed the freshman year, for a maximum of four years, including one seminary year.

The George L. and Mary S. Myers Endowed Scholarship. Annual award.

3M Company Scholarship(s). Varying amounts for students who are U.S. citizens, funded by Minnesota Mining and Manufacturing Company of St. Paul, Minnesota.

Northern Indiana Bank and Trust Company. Residents of Porter County—Annual awards.

The Nicholas H. and Marguerite Lilly Noyes Endowed Scholarship Fund. Authorized by the Board of Directors of Valparaiso University to honor Mr. and Mrs. Noyes, whose generosity makes this scholarship possible. The Noyes Scholars are to be selected on the basis of need, character, personality, and leadership. The number of Noyes Scholars and the amount of scholarship will be determined each year by the University Scholarship Committee.

Dr. Richard Oster. Resident of New Orleans, Louisiana—$1,000.00 annually.

Mollie V. Page. Member of Bethany Lutheran congregation, Waynesboro, Virginia—Annual award.

John Van Alstyne Peller Memorial. Upperclass students in College of Engineering, preferably civil. The amount and number of recipients will vary depending upon the income realized from the established fund.

The Arthur E. Pohlman Scholarship. Annual award. The amount and number will vary upon the earnings of the established fund.
Porter County Doctors' Scholarship. Awards in varying amounts, giving preference to residents of Porter County, and pre-medical, nursing, and medical technology students.

Porter Memorial Hospital Guild. Residents of Porter County, Indiana who desire to enter the College of Nursing—$2,000.00 annually.


Vernon F. and Katherine H. Radde Scholarship. Annual award.

The Reverend and Mrs. Arthur L. Reinke and the Reverend and Mrs. Augustus Reinke Memorial Scholarship. Established by Dr. Edgar C. Reinke in honor of his parents and grandparents. Two awards on the basis of academic excellence, not need—one to a student who has completed one year of college Latin and one to a student who has completed one year of college Greek. Renewable if the recipient elects to major in Latin, Greek, or Classics.

Mr. and Mrs. Carl Rittberger. Resident of Columbus, Lancaster, or Zanesville, Ohio area or from State of Ohio—$750.00 annually.

Frederick C. Roehl. Resident of Wisconsin, preferably the Oconomowoc area—$650.00 annually.

Adele Ruettgers Scholarship Fund. Students in the College of Nursing.

Mr. and Mrs. Henry J. Schneider Scholarship. The amount and numbers will vary depending on the earnings of the established fund.

Byron E. Schofield. $5,000.00 to be used as a scholarship fund to aid a needy law student(s).

Dr. Frederick C. Schuldt Memorial Scholarship. College of Nursing annual award.

Carl W. and Caroline D. Seyboldt. Member of Bethlehem Lutheran Church, Ridgewood, New Jersey—$600.00 annually.

Louis and Helen Zahn Shailes Scholarship. Awarded annually to a member of the First Lutheran Church, Berkeley and Marlboro Streets, Boston, Massachusetts.

Mr. and Mrs. Hugh O. Sherbert Scholarship. The income from this endowed scholarship, established with a gift of $10,000, is to be awarded to Lutheran students from Minnesota, preferably to graduates from Lutheran high schools.

John F. Siovers Memorial. Major in business or mathematics—$200.00 annually.

The Sigma Phi Epsilon Undergraduate Scholarship. Amount and number to vary depending on the earnings of the established fund.

The Sigma Tau Gamma Undergraduate Scholarship. Amount and number to vary depending on the earnings of the established fund.

Stanley B. Sink Scholarship. Valparaiso Community student.

Byron Smith Memorial. Resident of Porter County—$600.00 annually.

Margaret Krause Smith. Student from Tennessee, preferably Chattanooga area—$1,000.00 annually.

Bertha A. Staede Memorial. Music major—resident of Minnesota—Annual award.

Edward I. P. Staede and Amanda Hall Staede. Annual awards.

J. L. Stendel Family Memorial Scholarships. Available to Michigan students or other students if there are not enough from Michigan requiring assistance. Varying in number depending on the earnings of the fund established.

Frederick A. Stendell and Harry E. Stendell. Annual award.

The Paul Stoner Endowed Scholarship. Established by his sister, Miss Ruth Stoner. Annual award—with preference given to students from Porter County, Indiana.

Margaretta Sackville Tangeman Scholarship Fund. The income from this scholarship program will be awarded annually to a junior or senior social work major.

Mr. and Mrs. Paul E. Tegge Memorial Scholarship. The amount and numbers will vary depending on the earnings of the established fund. Preference given to students from the Milwaukee, Wisconsin area.

Bertha S. Tietjen Scholarship—Resident of California, preferably from the San Francisco area.

Leo F. and Mildred E. Tilly Scholarship Fund. The award is being established for children of employees, or former employees, of Lyon Metal Products, Inc. $500.00 annually.

Turk Family. Resident of Porter County, Indiana—Annual award.

Dr. and Mrs. H. L. Ulbrich. Annual award.

Urschel Laboratories. $500.00 annually.

Valparaiso University Guild Scholarship. Four $500.00 scholarships awarded annually by the Valparaiso University Financial Aid Office to students with financial need and with academic ability. The scholarship recipients shall be sons and/or daughters of Guild members.

Valparaiso Woman's Club Scholarship. Awarded annually. Number and amount vary according to the earnings of the established fund.

The Ed. L. Voelz Scholarship. Amount and number to vary depending on the earnings of the established fund. The student would be a resident of Bartholomew County, Indiana, and a graduate of St. Peter's Lutheran School. Guidelines available upon request.

F. G. Walker. Resident of Cleveland or Cuyahoga County, Ohio—Annual award.

Philip Wambsgans Memorial. Resident of Allen County, Indiana—$175.00 annually.

Angus Ward Foreign Service. Expressed intention to serve as career officer in Foreign Service of the United States—full tuition annually.
The Nursing

The Myra K. Tate Annual

The National Direct Student Loan Program. Valparaiso University is participating in the National Direct Student Loan Program, and has established a fund consisting of contributions from the government and the University. Details may be obtained from the Director of Financial Aid.

The Nursing Student Loan Fund. The Valparaiso University College of Nursing participates in the Nursing Student Loan Program and has established a fund consisting of contributions from the government and the University. Details may be obtained from the Director of Financial Aid.

The American Bar Association Fund for Legal Education provides a yearly allotment of funds to be used by students of the School of Law of Valparaiso University. Information pertaining to qualifications for this fund may be obtained from the Dean of the School of Law.

The Donna Francesca-Cesario Chesrow Loan Fund was established for the purpose of making small, short-term loans.

The Garman Loan Fund. A loan fund has been established by Benjamin L. Garman to help students who cannot qualify for a scholarship but who must have financial assistance or those with scholarships who need more help. Details may be obtained from the Director of Financial Aid.

The Phi Alpha Delta Law Fraternity Endowment Fund. Loans from this fund are available to worthy student members of the fraternity who are in need of such loans to complete their law school education. The maximum amount of such loans is $500.00. Terms of the loans, which are prescribed by the national governing board of the fraternity, will be supplied upon request to the Dean of the School of Law.

The Henry George Poncher Foundation was designed to provide a revolving loan fund to be used for making loans to deserving college students who are taking a pre-medical course preparatory to entering medical school and also to students enrolled in medical school studying to become doctors of medicine. Application is to be made on a form available in the office of the Dean of the College of Medicine of the University of Illinois and in the office of the Vice-President for Business Affairs, Valparaiso University. Further information may be secured from these two offices.

The Fred Smoke Student Loan Fund, administered by the Valparaiso University Alumni Association, was established in January, 1965, and provides funds for loans to students who are residents of Porter County, Indiana. Details may be obtained from the Director of Financial Aid.

The Myra K. Tate Student Assistance Trust was established to provide loan benefits to certain students at Valparaiso University. This trust is administered by the Northern Indiana Bank and Trust Company as Trustee. The Trustee will consider applications from Engineering, Law, and pre-medical students who are in the last two years of their schooling at the University. Applications are received on recommendation of the Dean of the appropriate college or the pre-medical adviser and are processed through the Business Office of the University prior to being forwarded to the Trustee for consideration. Details may be obtained from the appropriate academic deans or the appropriate adviser.

The Valparaiso University Law School Alumni Student Assistance Trust Loans available to law students through this trust are awarded by the officers of the trust. Information may be obtained from the Dean of the School of Law.

The Valparaiso University College of Nursing Student Assistance Charitable Trust. The Trust is administered by Northern Indiana Bank and Trust Company as Trustee. Application should be made to the Dean of the College of Nursing.

The Nellie Winifred Cheney Overton Memorial Loan Fund. This fund was established by Mr. William J. Overton as a memorial to Mrs. Overton. The income from the fund is available for loans to students from Lake County, Indiana.

The Indiana Federation of Clubs Loan Fund (Lucy D. Putnam Loan Fund and the Porter County Federation of Women’s Clubs Loan Fund).

The Mr. and Mrs. August Schoenherr Memorial Loan Fund was established by Mr. and Mrs. Leonard Schoenherr of Ludington, Michigan, as a memorial to his parents.

The Henry Strong Educational Foundation provides funds for loans to qualified upperclassmen under twenty-five years of age.

The Semester on the United Nations Loan Fund. This was established by the Valparaiso branch of the American Association of University Women for women students eligible to participate in the United Nations Semester at Drew University. Terms are similar to those of the Washington Semester Program Loan.

The Valparaiso University Association Loan Fund. A University Loan Fund has been established to help students who cannot qualify for a scholarship but who must have financial assistance or those with scholarships who need more help. Details may be obtained from the Director of Financial Aid.

In addition to funds provided by special appropriation of the Board of Directors, friends of the University who strongly believe in the principle of lending their resources to students in need have contributed to the University Loan Fund. These contributors are: M. E. Dinsmoo Memorial, Frank B. Estell, Oscar Homann, Glenn Krabeck, Aaron H. Kruse, The Lutheran Ladies Seminary, Anna and Bertha Meyer, Robert Miller Laboratory, Albert and Anna Raether Memorial, Mr. and Mrs. Henry J. Schneider, Mr. Werner Schroeder, Trinity Tool Company.

The Washington Semester Program Loan Fund. Only students fully accepted for the Washington Semester Program at the American University are eligible. Loans up to one hundred dollars are given; the student is expected to repay the loan plus a donation to the principal of the fund of twenty-five per cent within five years after leaving the University.
The Janette G. Wesemann Student Loan Fund was established for the purpose of making loans primarily to qualified pre-law and law students, preferably from the State of Illinois, who are in need of financial assistance to continue their education. Loans from this fund are available to students who are making satisfactory progress toward a degree.

The Betty Rose Wulf Memorial Loan Fund was established by her parents, Mr. and Mrs. Walter H. Wulf, to be used by students preparing for church work, such as deaconess training or students preparing for other church work.

LOAN REPAYMENT TERMS. For: The Overton, Indiana Federation of Clubs, Schoenherr, Henry Strong, VUA, Wesemann, and Wulf Loans: No interest accrues while the borrower is enrolled full time at Valparaiso University; three per cent interest begins when he/she leaves. A four year repayment schedule is called for by the terms of the promissory note. Certain adjustments are possible on repayment schedules while a borrower attends graduate school.

REHABILITATION GRANTS. Under the provision of Public Law 565, the Federal Government and the State of Indiana jointly provide funds for scholarship grants-in-aid to students who have a physical or mental impairment which constitutes a vocational handicap. The State Vocational Rehabilitation Division is responsible for the determination of the grants. At Valparaiso University, the Registrar's Office accepts referrals for applications. The grants pay tuition and some fees.

THE VALPARAISO UNIVERSITY FEDERAL CREDIT UNION. This is an organization whose membership is open to all students, members of the faculty, and employees of the University. Its purpose is to promote thrift and to provide a source of credit for its members. To become a member, one must subscribe for at least one five-dollar ($5.00) share of stock. The purchase of one share of stock entitles one to all the rights and privileges of full membership. Interest on loans is charged at the rate of three-quarters per cent (\( \frac{3}{4} \% = 9\% \text{ A.P.R.} \)) to one per cent (\( 1\% = 12\% \text{ A.P.R.} \)) per month on the unpaid balance. This association is governed by a board of directors elected by the membership and is supervised by The National Credit Union Administration of the United States Government. All accounts up to $40,000.00 are insured by the National Credit Union Administration.
THE SUMMER SESSION. This program, an integral part of the University, serves directly the cultural, vocational, and professional needs of teachers in service, persons interested in specific courses (with or without college credit), students who wish to accelerate their academic progress, or new students who desire to begin academic work on the college level.

Students enrolled full time in the Summer Session normally earn nine semester hours of credit. These credits have the same value as those earned during the regular year and are transferable.

During the summer of 1963 Valparaiso University began a program leading to the degree Master of Arts in Liberal Studies. This program continues to prove valuable for a wide range of students who wish to strengthen their vocational preparation and to secure breadth of background in academic areas. It also provides for the needs of both elementary and secondary classroom teachers who wish to work toward advanced certificates. They will be able to adjust their programs within the fields of concentration and electives so as to strengthen their subject matter competence and add to their professional training in education.

Courses on the undergraduate level will be offered in the following subject matter areas: Accounting, Art, Biology, Economics, Education, English, Finance, Foreign Language, Geography, History, Management, Mathematics, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Social Work, Sociology, Speech and Drama, and Theology.

Courses on the graduate level will be offered in Art, Economics, Education, English, Geography, History, Music, Political Science, Psychology, Sociology, Speech and Drama, and Theology.

A Mini Summer Session of three and one-half weeks will be offered from May 23 to June 16 in 1977. This short term session is designed primarily for our resident students.

The combination of the Mini and the regular Summer Sessions permits students to earn almost a semester of credits during the summer months.

From time to time, Summer Educational Tours are conducted.

Information regarding these tours is normally included in the Summer bulletin.

Summer Session Fees (June 20 to August 10, 1977).

Matriculation .................................................. $ 5.00
Tuition per credit hour (Undergraduate) .................. 50.00
Tuition per credit hour (Graduate) ......................... 55.00
General Fee for all students ................................. 15.00
Private Music Lessons (Organ, Piano, Voice, String, etc.)
15 30-minute lessons ........................................ 90.00
8 30-minute lessons .......................................... 50.00

THE EVENING DIVISION. This program, combining the services of the former extension and adult education program, was organized in the Spring of 1963 to make the offerings of all colleges and departments available to the residents of the greater Valparaiso community, as well as to the full-time students on our campus.
The course offerings are designed to serve the needs of employed persons who desire to continue their college education for self-improvement or to complete requirements for a degree or for teacher certification. Evening courses are the same in content, objectives, and credit value as corresponding day courses.

The Evening Division also offers non-credit courses for those who are not working toward a degree or teacher certification, but who wish to explore some field of special interest under the guidance of qualified instructors. Every effort will also be made to meet the needs of industrial and business groups where special courses are desired.

Admission to the Evening Division. Admission is open to any student who has earned a High School diploma or who can qualify on the basis of a GED test. Students who have not matriculated in the undergraduate program and who have never attended Valparaiso University must apply for admission as special students to the Director of the Office of Continuing Education. Students who plan to complete requirements for a degree from Valparaiso University and students who plan to complete the requirements for teacher certification must file applications for admission with the Director of Admissions of the University.

Students who wish to take a graduate course must be admitted to the Graduate Division. Requests for applications should be addressed to the Director of the Graduate Division.

Registration in the Evening Division. Matriculated campus undergraduate students register for Evening Division courses on the regular registration form at the time of official registration for day courses. Such students may register in the Evening Division for up to six semester hours, provided that their total course load in evening and day courses does not exceed the maximum load permitted according to the catalog. Any day undergraduate student who registers for a given semester in day and Evening Division courses will be considered to be a day student and will be charged the regular charges applicable to a day student.

Registration in the Evening Division for those taking evening courses only is conducted by mail and in person according to the schedule announced in the brochure published in advance for each semester.

The regular time schedule lists all courses offered by all departments and colleges of the University in numerical order with evening courses prefixed by "Ev."

THE GRADUATE DIVISION. The University, in offering graduate programs, is seeking to fulfill an objective set by the Lutheran University Association when it acquired the plant in 1925; to make the institution a Christian center of advanced study. The University desires through these programs to broaden its educational service to its constituency and to the community as a whole. There are elements of uniqueness in these programs, both in breadth and depth, which make them unusual in American higher education.

The program of graduate studies was initiated by Valparaiso University in the Summer Session of 1963. It has continued through late afternoon and evening courses during subsequent academic years. At present the plan is to offer graduate courses in this pattern of Summer Sessions and evening courses.

The graduate programs are under the general supervision of the President and the Faculty of the University. The policies of the Graduate Division are determined by the Graduate Council, and the programs and regulations as defined by the Council are administered by the Director of the Graduate Division.

Admission Requirements. An applicant to the Graduate Division must be a graduate of an accredited college or university with a standing of at least 2.5 (C=2.00) in all work attempted. Official transcripts of all undergraduate and previous graduate work and a completed form for admission (available from the Office of the Director) must be forwarded to the Director of the Graduate Division for evaluation. The transcripts and other application materials become part of the records of the Graduate Division, Valparaiso University, and are not returnable.

The Director will assign an adviser according to the selected area of academic concentration once the student is admitted to the Graduate Division. Those students who are also working toward qualifying for teaching certificates will be assigned an adviser in the Department of Education in addition to their academic adviser.

Admission to Candidacy. Admission to candidacy is a separate step from admission to the graduate program, and requires separate approval by the Director of the Graduate Division. To become a candidate for a degree, a student must have completed at least six semester hours at Valparaiso University with a standing of at least 2.8 (B=3.00). Application for candidacy should be filed before the student has completed half of his/her graduate work. The student must file a tentative program of study which has been approved by his/her academic adviser. Forms for this purpose are available through the office of the Director of Graduate Division.

Program for Master of Arts in Liberal Studies. This program is broad in scope, offering opportunities for study in several fields. Two basic two-hour courses in The Western Tradition, which are required of all students, provide an integrating core. Also, the student is required to present the remaining hours in the thirty hour program in one subject matter field other than education. The remaining hours in the thirty hour program are electives, selected by the student after conference with his/her adviser(s). A maximum of ten of these elective hours may be in professional education.

In addition, the program provides for the needs of both elementary and secondary classroom teachers who wish to work toward advanced certificates. Students will be able to adjust their programs within the field of concentration and the electives so as to strengthen subject matter competence and, if they desire, to add to their professional training in education.

The M.A.L.S. program provides a particularly challenging opportunity for professional workers who wish to strengthen their preparation and secure breadth of background in academic areas.

*Seniors wishing admission to the Graduate Division: A senior in Valparaiso University who has a standing of at least 2.5 in all work attempted and who wishes to enroll in graduate work and not more than six semester hours of credit and not more than a total of twenty semester hours during a semester; or for not more than three semester hours of courses designated for graduate credit and not more than a total of six semester hours during a Summer Session. Courses taken for graduate credit may not be counted toward fulfilling the requirements for a baccalaureate degree.
To be eligible for the degree of Master of Arts in Liberal Studies, a student must complete at least thirty semester hours, distributed as follows:

1. A core of 14 semester hours consisting of:
   A. 10 semester hours in one subject-matter field (other than education), 7 semester hours of which must be taken at Valparaiso University, and
   B. 4 semester hours in the courses entitled The Western Tradition I and The Western Tradition II.

2. 16 semester hours of electives (of which 10 semester hours may be in education).

At least 5 of the 10 semester hours required in the one subject-matter field and at least 15 of the 30 semester hours presented for the degree must be in courses numbered 300 or higher. These courses must be taken at Valparaiso University.

Program for Master of Education. This program, authorized for the first time as of the school year 1972-1973, is used by elementary teachers in professionalizing their certificates. The Master of Education degree program is open only to certified elementary teachers or persons with a planned program for achieving certification.

To be eligible for the degree of Master of Education, a student must complete at least thirty-three credits, distributed as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Education</td>
<td>12 credits</td>
</tr>
<tr>
<td>Psychological Foundations of Education</td>
<td>3 credits</td>
</tr>
<tr>
<td>Subject-matter Field(s) other than education</td>
<td>12 credits</td>
</tr>
<tr>
<td>Electives</td>
<td>6 credits</td>
</tr>
</tbody>
</table>

Total minimum requirement: 43 semester credits

(Minimum 300 courses at Valparaiso University) 15 semester credits

Regulations for the Degrees M.A.L.S. and M.Ed. No thesis is required, but a term paper is a regular part of graduate courses.

Students must maintain a grade-point average of 2.8 (B=3.00) in all graduate work undertaken at Valparaiso University. Graduate credit may be received for grades of 2.00 and above, but not more than six semester hours of 2.50 work or less may be counted toward the degree. All grades received at Valparaiso University are counted in computing a student's grade-point average.

Repetition of Courses for Credit. Unless a course may be repeated for credit, only the credits, grade, and grade points received the last time a course is taken by a student shall be used in determining credit for graduation and the cumulative grade-point average(s). A grade of W shall be excluded from this policy.

Not more than fifteen semester hours of work for graduate credit may be carried in any one semester, nor more than nine semester hours of credit in any Summer Session. All work for the master's degree must be completed within a period of five calendar years from the date of the student's initial enrollment in the program.

Not more than six semester credits earned in institutes or workshops may be counted toward the degree.

If a student receives a grade of Incomplete in any course that grade must be removed by the beginning of the official examination period of the next succeeding semester or it will automatically become a zero (0). The student's deadline for submitting the outstanding work to the instructor shall be one full week prior to that date.

Only in exceptional cases, such as prolonged or serious illness, will the Graduate Council permit a student to withdraw from a course without a grade of zero (0) after the end of the seventh week of the semester or after the third week of a Summer Session.

Independent Study. With the permission of the chairperson of the department concerned and of the Graduate Council, a student may earn up to three of the thirty semester hours required for the degree by means of an independent-study project resulting in a paper. No student may apply for permission to undertake an independent-study project until he/she has satisfactorily completed at least twelve semester hours of his/her approved master's degree program.

Before registering for an independent-study project, a student must place on file with the Graduate Office an outline of his/her project, together with a bibliography, which have the written approval of the directing professor and his/her department chairperson.

An independent-study project will be recorded as course number 390 of the department concerned.

No student may register for an independent-study project during the final Summer Session of his/her program and no student should expect to start and complete an independent-study project in one Summer Session.

Transfer Credits. A maximum of six semester hours of transfer credit from another accredited institution will be accepted for the degree, and no transfer course presented with a grade of less than B (3.00) will be considered. These credits must have been earned not more than ten years before the student is admitted to the graduate program. All requests for transfer must be in writing and will be evaluated by the Director of the Graduate Division.

Application for Graduation. To receive the master's degree from Valparaiso University, students must make formal application to the Director of Graduate Division within the first week of the term in which they expect to be graduated. They must give evidence that they have fulfilled all requirements for the degree and receive the approval of the Graduate Council. No student who has not made application for candidacy (see page 47) will be eligible for the degree.

Certificates for Teaching. To prepare persons for teachers' certificates, Valparaiso University adapts the graduate programs, after reviewing the candidates' prior preparation, to the student's individual needs.
Each candidate for the Indiana Secondary School Certificate, Professional, must earn at least eight semester hours of graduate credit in each subject field he/she desires to professionalize.

Persons seeking the Indiana General Elementary Certificate, Professional, must devote at least fifty per cent of their work to a combination of courses in education and subject content directly related to elementary school teaching. These courses, nine or ten credits in education, five or six credits in related course work, are to be selected with the advice of the education adviser, and are to be approved by him/her.

All students working toward a teaching certificate must consult the Chairperson of the Department of Education, as well as their academic advisers, in planning their programs.

Elementary teachers using the Master of Arts in Liberal Studies to professionalize a teaching certificate will be required to complete 12 semester hours in professional education (a minimum of 6 hours of 300 courses) and 3 semester hours of related coursework. (Since a maximum of 10 hours of education may be used toward a Master of Arts in Liberal Studies, this requirement, in effect, raises the total hours required for elementary teachers to 32 hours).

Secondary teachers using the Master of Arts in Liberal Studies to professionalize a teaching certificate will be required to complete 6 semester hours in professional education (a minimum of 3 hours of 300 courses at Valparaiso University).

Graduate Courses. Details about graduate courses will be found under the respective departments of the College of Arts and Sciences and of the College of Business Administration. All courses numbered 200 and above are open only to those students who have been officially admitted to the Graduate Division.

Fees. Application fee $10.00 This fee is to accompany the application for admission form. It is payable only once, upon initial application. It is not refundable.

Matriculation fee $5.00 This fee is payable only once, when the student enrolls in his first course at Valparaiso University.

Graduation fee $15.00 This fee should accompany the application for graduation.

Placement fee (optional) $10.00 This fee will be charged each teacher candidate who wishes to use the Teacher Placement Service. This fee provides placement service for one placement year (October 1 - September 30).

Tuition and dormitory fees are indicated in University bulletins covering Summer Session, evening offerings, and the regular academic year.

Graduate Scholarship in English Literature. The Vera L. Sieb Scholarship in Literature was established by Floyd W. Sieb as a memorial to his sister, whose name the scholarship bears.

The purpose of the scholarship is to make it possible for a promising student to devote his/her entire time during the academic year following his/her graduation from Valparaiso University to graduate study with a concentration in English literature at that University.

A holder of the scholarship may not engage in any paid employment during the term of the scholarship.

The scholarship grant will be paid in two installments; one half will be paid at the beginning of the fall semester of the holder's first graduate year and the other half at the beginning of the spring semester of that year.

The scholarship will be awarded annually to a Valparaiso University senior majoring in English upon the recommendation of the professorial staff of the Department of English. The recommendation must be accompanied by a detailed statement of purpose written by the student being recommended.

For further information write to: Director of Graduate Division.

Aid For Church Workers. The Valparaiso University Graduate Program offers various forms of aid to professional Church Workers. Candidates for these scholarships must apply for them on a form provided by the Director of Graduate Division. They must also apply, at each registration period, for a continuance of the scholarship aid, to the Director of Financial Aid. They must have been admitted into the graduate program.
GENERAL REQUIREMENTS FOR ADMISSION. Seeking an academically strong, yet diversified student body, Valparaiso University admits those candidates who demonstrate potential for success in rigorous academic work. Qualified applicants are admitted without regard to race, color, sex, national, or ethnic origin. The credentials of each applicant are individually evaluated, with consideration given to academic record, test scores, character, personality, and motivation for college studies.

To provide uniform predictive and evaluative norms, the University requires that all candidates for admission to the freshman class take the Scholastic Aptitude Test of the College Entrance Examination Board. In exceptional cases (e.g. when SAT scores would not be available early enough for full admission and financial aid consideration) the SAT requirement may be waived in favor of the PSAT and/or the ACT, if these scores seem satisfactory.

To be admitted, an applicant should normally be a graduate of an approved secondary school or possess a state high school equivalency certificate. Graduates of non-approved secondary schools and veterans who may not have completed requirements for high school graduation may be granted admission, if their scores on the required entrance examination clearly demonstrate their aptitude for college level studies. Exceptionally well-qualified students will be admitted prior to graduation if their candidacy is endorsed both by their high school officials and their parents.

Applications may be filed at any time, but preferably well in advance of the semester in which admission is desired. Each application must be accompanied by an Application Fee of $10.00, which is non-refundable. No other fee is required by the University at the time of application. All applications for admission to the undergraduate programs of Valparaiso University should be made to the Director of Admissions.

College of Arts and Sciences and College of Business Administration. Since Valparaiso’s curriculum offers flexibility and attention to individual talents and needs, no one specific high school program is required of all applicants. Students planning to attend Valparaiso University should take the strongest possible college-preparatory program available to them. Within these guidelines, individual selections of specific courses are best made by the student and his/her high school counselor.

Students planning their high school curricula are urged to include a minimum of three units in English, two units in mathematics (algebra, geometry), two units in social studies, two units in laboratory sciences, and two units in a foreign language.

College of Engineering. Applicants to the College of Engineering should follow a strong college preparatory program with emphasis on mathematics and science. Candidates should submit a minimum of three and one-half years of mathematics, including 1½ units of algebra, 1 unit of geometry, ½ unit of trigonometry (business, general, or shop mathematics may not be counted), and one year of either chemistry or physics with regular laboratory work. These requirements are minimum: applicants are encouraged to take four years of formal mathematics and both chemistry and physics.

College of Nursing. The requirements for admission to the College of Nursing are essentially the same as those of the College of Arts and Sci-
ences. It is recommended that the student have a year of both biology and chemistry. If available, a second year of biology will better prepare the student for the nursing curriculum.

Christ College. Students are admitted to Christ College only by invitation of the Faculty Committee on Christ College and hold concurrent admission to the College of Arts and Sciences, or the College of Business Administration, or the College of Nursing, or the College of Engineering.

School of Law. See pages 227-229.

Graduate Division. See page 46.

Special Student Status. An undergraduate applicant who is not admitted as a regularly classified student (working toward a baccalaureate degree) may be admitted as a special student. Credits received may be subject to revision should the student in the future become a candidate for a degree. This status is not available to a student dismissed from the University.

For regulations regarding admission as a special student in the School of Law, see page 229.

READMISSION OF FORMER STUDENTS TO UNDERGRADUATE AND PROFESSIONAL PROGRAMS. A student who has fully matriculated at Valparaiso University and who, for some reason (except students enrolled in the Deaconess Training Program—these students usually spend one year in inservice training), has interrupted his/her studies must apply for readmission to the University through the Readmissions Committee. The request for readmission is to be sent to the Registrar.

Applications for readmission must be made at least one week prior to the registration date of the term in which the student wishes to enroll. Applications will not be accepted after this date.

A student being readmitted must present the necessary information such as records of attendance and grades at other colleges, and a new medical examination report, if he/she has been out of school during the previous sixteen month period, before action will be taken on his/her request to be readmitted.

The case of each student applying for readmission will be presented to the Readmissions Committee. The student will be notified by the Registrar of the Committee’s decision.

*ADVANCED STANDING—TRANSFER STUDENTS. The University welcomes transfer students from junior colleges, community colleges, and other accredited institutions of higher education. A transfer student is defined as a student who has matriculated at another college or university before enrolling at Valparaiso University. Students seeking regular admission as transfers to Valparaiso University must apply for admission through the Director of Admissions at least three weeks prior to the official registration days of the session for which they are applying and must present evidence of honorable dismissal from the institution last attended. A transfer student will not be given a Permit to Enter from the Director of Admissions until official transcript(s), a completed medical report, and other required credentials are on file in the Admissions Office. In some cases, the Director of Admissions may require a personal interview before admission is approved. After the applicant’s record has been evaluated, he/she will be notified regarding the courses which are found acceptable for transfer. Courses with grades of “D” will be accepted as credit for graduation provided a grade-point average of 2.00 (C) or better is attained on work completed at any one institution, and which has not previously been evaluated.

Credits earned more than fifteen years ago will be accepted toward graduation requirements on a provisional basis, subject to validation by first year’s work (30 semester hours) completed in residence with a 2.00 average. The University reserves the right to reject any applicant for admission by transfer whose academic record is unsatisfactory.

Most credits earned in secretarial studies and credits earned in Developmental Reading are not applicable toward any degree granted by Valparaiso University.

The total number of advanced standing credits that may be transferred to the University is 34 credits per school year, with a maximum of 94 credits (Colleges of Arts and Sciences, Business Administration, or Nursing) or 36 credits per school year, with a maximum of 106 credits (College of Engineering).

Advanced standing is the record of courses and credits accepted by Valparaiso University from another institution. Students who enter with advanced standing because of credits transferred from another school must earn at Valparaiso University twice as many quality points as semester hours attempted in order to be eligible for a degree.

Transfer students should become familiar with the sections on housing (page 24), financial aid (page 29), residence requirement (page 67), and graduation (page 65).

The following applies to the use of advanced standing in meeting degree requirements within the College of Arts and Sciences:

A. General Education. A Statement of Equivalence is prepared by the Dean of the College of Arts and Sciences in regard to the general education requirements for the Bachelor of Arts degree. The following special rules apply:

1. Religion. A transfer student may apply a maximum of 6 credits in religion from his/her advanced standing to the religion requirement. Otherwise, a transfer student with more than 45 credits but less than 75 credits of advanced standing need complete two courses (6 credits) of religion at Valparaiso University. A transfer student with 75 credits or more of advanced standing need complete one course (3 credits) of religion at Valparaiso University.

2. General Studies. This one course requirement must be fulfilled at Valparaiso University.

B. Concentration Requirements. Statements of equivalence for academic majors or professional block schedules are prepared by the departments concerned.

*Credit for workshops, institutes, or travel-study ordinarily will be granted only for work taken at Valparaiso University. In cases of exception to the preceding restriction, transfer credit for institutes or workshops usually will not exceed one credit per calendar week of instruction. Transfer credit for travel-study programs usually will not exceed two credits per calendar week.
*ADVANCED STANDING—RESIDENT STUDENTS. Any resident student who has taken academic course work at any other accredited educational institution must request the Registrar of that institution to send an official transcript to the University’s Office of the Registrar, where an evaluation will be made for possible acceptance of transfer credits. Courses with grades of “D” will be accepted for graduation, provided a grade-point average of 2.00 or better is attained on work completed at any one institution, and which has not previously been evaluated.

ADVANCED STANDING BY EXAMINATION. The University offers three basic means for students to receive advanced placement and/or credit. These include:

1. The Advanced Placement Program of the CEEB—AP. Applicants for admission, who take one or more of the Advanced Placement Examinations in May, will receive credit toward a degree for scores of “5” (Extremely Well Qualified) or “4” (Well Qualified). A score of “3” (Qualified) will be referred to the department chairperson concerned for evaluation and recommendation for credit or placement.

2. The College Level Examination Program of the CEEB—CLEP. The CLEP program provides an opportunity to gain college credit for those individuals who, through experience, independent study, or enriched high school courses, have attained college-level knowledge of a particular field. It is not recommended that these examinations be taken only on the basis of normal high school courses. Information and test center locations can be obtained from College Entrance Examination Board, Box 592, Princeton, N.J. 08540.

Valparaiso University awards credit for CLEP General Examinations in English, Humanities, Social Science-History, and Natural Science, subject to the following conditions:

A. The General Examination must be taken prior to matriculation at Valparaiso University.

B. Credit for a CLEP General Examination may not be applied to a major field or any specific course requirement except as listed under D, E, F, and G.

C. Credit for a CLEP General Examination is valid only if no other credit by examination is awarded in courses applicable in the same area of general education.

D. A score of 500 or above on the English General Examination will entitle a student to four (4) credits for English 3-4 or 5.

E. A score of 500 or above on the Humanities General Examination will entitle a student to three (3) credits in the area of Literature and Fine Arts.

F. A score of 500 or above on the Social Science-History General Examination will entitle the student to three (3) credits in the area of Behavioral and Social Sciences.

G. A score of 500 or above on the Natural Science General Examination will entitle a student to four (4) credits in the area of Natural Science and Mathematics. A student who applies these credits to the general education requirement in Natural Science and Mathematics will be expected to complete at least one laboratory course in science.

Valparaiso University awards credit for CLEP Subject Area examinations as indicated in the separate departmental listings. Credit for Subject Area examinations is awarded only if the examination is taken before a student has enrolled in a college-level course in the department concerned.

3. University Placement Testing. During the orientation period which precedes each semester, placement tests are offered to incoming students (freshmen and transfers) in the areas listed below. These tests provide an opportunity for students to attain advanced placement, receive credit (as described below), or to meet certain general education requirements.

Currently advanced placement and credit are awarded in biology, chemistry, foreign languages, and mathematics, as explained in the catalog sections dealing with those departments.

REGISTRATION. All students are expected to register on the official registration days of each semester as listed in the University Calendar.

*Responsibility Assumed by Registration. By registering, the student subscribes to the terms and conditions, financial and otherwise, which have been set forth in these announcements. One of these is that every first-time, full-time student and every student who has not been registered during the previous sixteen month period must submit to the University Medical Center a report of his/her medical history, physical examination, and required immunization.

Course Prerequisites. Students will be held responsible for meeting the prerequisites of all courses for which they enroll. In unusual cases, the appropriate committee may waive certain prerequisites upon formal petition by the students concerned.

Change of Program. At the beginning of each semester or session, changes of enrollment may be made in accordance with the dates found in the official University Calendar as noted on pages 3, 4, 5, and 6, with the signature of the student’s adviser and the written approval of the department chairperson involved. There is no adjustment in the tuition and general fees after the deadline for adding regular courses of a semester.

Thereafter, students will be permitted to withdraw from a course with a grade of “W” in accordance with the published dates as noted in the official University Calendar. Cases which involve special circumstances, such as serious or prolonged illness, will be handled by the dean of the student’s college, by means of a petition.

Changes in enrollment concerning second half short courses or the course in the intensification program may be made in accordance with the official University Calendar.

Application for changes in enrollment must be made by the student on proper forms and filed at the Office of the Registrar.

Admission to Courses on a Satisfactory/Unsatisfactory Basis. Certain courses normally result in S/U grades, as noted in the catalog course

*See page 229 for students in the School of Law.
descriptions. An undergraduate student may take, in addition to any such course or courses, one course, normally numerically graded, each semester on a Satisfactory/Unsatisfactory basis, subject to the following conditions:

A. Such courses must not be selected from:
   1. the student's major field;
   2. the required courses for any professional degree or pre-professional program, except for liberal arts electives or other courses approved by the dean of the student's college;

B. Such registration must be signed by the student's adviser;

C. Decision to elect a course on such a basis is to be made by the deadline for withdrawing from the course concerned with a grade of W.

A student in the College of Arts and Sciences who has not declared a major may also elect to participate, subject to the conditions given above, except that such courses may not be selected from the division of his/her declared preference.

Admission to the Course Intensification Plan. A student may propose a special project for earning one extra credit in one liberal arts course in which he/she is enrolled in a given semester. This opportunity is part of the University's Course Intensification Plan. The following regulations pertain to this option for a student:

1. The course must be a liberal arts course.
2. The course must be offered in the time schedule for 3 or more credits.
3. The initiative and responsibility for developing a satisfactory proposal is expected to lie with the student.
4. The proposal is subject to the approval of the instructor of the course.
5. Approved proposals must be filed in the Office of the Registrar during the period specified in the academic calendar.

Admission to Courses as an Auditor. A classified student may register in a course as an auditor only with the permission of his/her adviser and the chairperson of the department concerned. An auditor may not be admitted to the final examination and is never granted credit for the course audited. No additional fee is charged when the student pays full tuition.

A mature student, not regularly enrolled at the University, who desires to take courses without credit may enroll as an auditor upon receiving the approval of the instructors concerned and the dean of the college. Payment of an auditor's fee is required.

Declaration of a Minor in the Professional Colleges. Students in the professional colleges may be allowed to declare a minor in the College of Arts and Sciences, provided that no more than six hours required of the professional program are used in fulfilling a minor offered by the College of Arts and Sciences, and to have this minor listed on the students' official transcript records.

Transfer to Another Program. If a student transfers from one major or program of studies to another, all requirements of the new specialization must be
met. Such a transfer will subject credits previously earned to a re-evaluation. In certain cases the change of program may result in some loss of credit. Therefore, such transfers may not be made without the written approval of the advisers and deans concerned. Necessary forms may be obtained from the Registrar.

Credit Hours. A credit represents one hour of recitation or lecture, or two or more hours of laboratory a week for one semester. If time outside of the laboratory is required to prepare laboratory notes, two hours may be equivalent to one hour of class work. Drawing, shopwork, and other courses demanding no outside preparation require a minimum of three hours for one credit. For the exact number of hours see the respective courses.

Maximum and Minimum Registration. The maximum registration for a full program for students in the College of Arts and Sciences is 17 semester credits. For students in certain professional programs, the authorized maximum registration is given in the following table.

Number of Credit Hours Without Petition:

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>Maximum, 17 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students preparing for licenses in elementary- and secondary school teaching</td>
<td>Maximum, 17 Credits</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>Maximum, 17 Credits</td>
</tr>
<tr>
<td>College of Engineering, except as required in certain block schedules</td>
<td>Maximum, 20 Credits</td>
</tr>
<tr>
<td>College of Nursing</td>
<td>Maximum, 17 Credits</td>
</tr>
<tr>
<td>School of Law</td>
<td>Maximum, 16 Credits</td>
</tr>
</tbody>
</table>

Students who maintained a standing of three (3.00) during the previous semester may register for extra work, provided their formal petitions for such work are granted by the appropriate committee. Freshmen will not be allowed to carry extra work during the first semester.

The minimum registration for a full-time student is 10 semester credits.

Withdrawal from the University. A student who wishes to withdraw from the University for the remainder of a semester or session should apply to the Vice-President for Student Affairs for a permit to withdraw. Upon return of the permit properly signed to the Office of the Registrar, the Registrar will authorize the return of such fees as are refundable. In the case of a student who is less than twenty-one years of age, the parent or guardian is notified of the withdrawal by the Vice-President for Student Affairs. If a student withdraws after the seventh week of a semester, he/she is ordinarily not granted readmission for the following semester, unless unusual circumstances such as severe illness caused the withdrawal.

The term "honorable dismissal" refers to conduct and character only, not to class standing and grades. It will not be granted unless the student's conduct and character are such as would entitle him/her to continue in the University.

A student who withdraws from the University without authorization is not entitled to refunds of any kind and the instructor of each subject in which the student is enrolled is required to report a final grade of zero (0) to the Registrar.

EXAMINATIONS. The regular written examinations of the University are held at the close of each semester. Each examination is usually limited to two or three hours.

In addition to the regular prescribed examination, written tests are given from time to time, at the discretion of the instructor.

The semester examinations are conducted according to a published schedule.

All examinations in courses of less than 3 credits will be conducted during regularly scheduled class periods. Deviations from this policy for final examinations must be approved by the dean of the college.

The policy concerning the use of a final examination in a course will be determined by the professional college or the Arts and Sciences department which offers the course.

ACADEMIC DEFICIENCY. In the College of Arts and Sciences, the College of Business Administration, the College of Engineering, and the College of Nursing, students whose cumulative resident grade-point average falls below 2.0 will be considered academically deficient and may be denied the privilege of continuing their studies at the University, unless they succeed in improving the quality of their academic work to the satisfaction of the faculty during the following semester. Notice of such deficiency will appear on the student's grade report. The Dean of each college will establish procedures adequate to give students who are academically deficient timely warning of their being denied continuation of their studies.

Deficiency warnings are sent to parents and guardians of all undergraduate students in the day program who are less than twenty-one years of age, unless the student who is not a dependent of his/her parents or guardians notifies his/her academic dean to the contrary.

For regulations concerning academic deficiency in the School of Law see page 231 of this bulletin.

DROPPED FOR LOW SCHOLARSHIP. Whenever, in the judgment of an academic dean, a student who is academically deficient would benefit from an interruption of this work in a particular college of the University, the dean will notify the student in writing that he/she has been dropped and will specify a) the period of time for which he/she has been dropped and b) the conditions which he/she must satisfy in order to be readmitted.

ABSENCE FROM CLASS. The following regulation concerning absence from class has been adopted by the Faculty:

Every student is expected to attend every one of his/her classes unless his/her absence has been approved by the instructor concerned or by the appropriate dean.

Absence from class is primarily a matter between the student and the instructor of the class. It is the student's responsibility to discuss with his/her instructor the reason for his/her absence and to learn what make-up work may be required.
**MARKING SYSTEM AND QUALITY POINTS.** Results of work will be recorded in the Registrar’s Office as follows:

A. Excellent; recorded as a grade of four (4); valued at four (4) quality points per credit.

B. Good; recorded as a grade of three (3); valued at three (3) quality points per credit.

C. Satisfactory; recorded as a grade of two (2); valued at two (2) quality points per credit.

D. Less than satisfactory; indicates some deficiency but gives credit for graduation; recorded as a grade of one (1); valued at one (1) quality point per credit.

E. Failure; does not give credit for graduation; recorded as a grade of zero (0); valued at zero (0) quality points.

Note: Intermediate grades of 3.5, 2.5, 1.5, and .5 may be recorded. These have a value of 3.5, 2.5, 1.5, and .5 quality points, respectively. All give credit for graduation, but a student who receives a grade of .5 is advised not to enroll in other courses for which the given course is a prerequisite.

I. Incomplete. The grade I (Incomplete) may, at the discretion of the instructor, be given to a student whose completed work in a course indicates the probability of his/her passing the course but who has failed to complete a segment of the assigned work of the course because of circumstances beyond his/her control. An I (Incomplete) received in one semester or summer session must be removed by the beginning of the official examination period of the next succeeding semester or it will automatically become a zero (0). The student’s deadline for submitting the outstanding work to the instructor shall be one full week prior to that date.

W. An authorized withdrawal. (See Change of Program). This mark carries no credit.

S. Satisfactory; meets course objectives. Hours with grade of S count toward graduation but are not counted in computing the student’s standing. All regular work of the course is required of students electing the S/U registration. It is assumed that work should be of a quality which is comparable to a grade of 1.50 or better to warrant the grade of S.

U. Unsatisfactory; does not meet course objectives. Hours with grade of U do not count toward graduation and are not counted in computing the student’s standing.

Grades of S and U are used in certain courses which are so designated in the course descriptions contained in the University Bulletin. (See page 59 for further use.) They may be used in other courses only in exceptional cases when approved by the dean of the respective college and the Vice-President for Academic Affairs.

Any student withdrawing from a subject without first securing the official permission of his/her adviser will receive a grade of zero (0) in that subject for the semester.

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*Definition of the Standing of a Student. A student’s standing is determined by the ratio of the total number of quality points to the total number of hours attempted in all the work at Valparaiso University. Thus, a student who makes an average mark of 2.00 throughout a course of 124 semester hours will have 248 quality points, 124 credits, and a standing of two (2.00). An average mark of 3.00 will give the student 372 quality points, 124 credits, and a standing of three (3.00). When a semester's work is to be considered “standing” it understood to be the ratio of the number of quality points gained to the number of credits scheduled.

**SEMESTER REPORTS.** Reports are sent only to students and at the address indicated by them on the envelope enclosed with the registration form. These reports are considered by the University to be the progress records maintained by the University and furnished to the students as required by the Veterans Administration DVB Circular 20-76-84.

**CLASSIFICATION OF STUDENTS.** In the College of Arts and Sciences, a student must have 24 semester credits and 48 quality points to be classified as a sophomore; 56 semester credits and 112 quality points to be classified as a junior; 88 semester credits and 176 quality points to be classified as a senior.

In the College of Business Administration, a student must have 24 semester credits and 48 quality points to be classified as a sophomore; 56 semester credits and 112 quality points to be classified as a junior; 88 semester credits and 176 quality points to be classified as a senior.

In the College of Engineering, a student must have 24 semester credits and 48 quality points to be classified as a sophomore; 56 semester credits and 120 quality points to be classified as a junior; 94 semester credits and 188 quality points to be classified as a senior.

In the College of Nursing, a student must have 24 semester credits and 48 quality points to be classified as a sophomore; 56 semester credits and 112 quality points to be classified as a junior; 88 semester credits and 176 quality points to be classified as a senior.

A student in the School of Law shall have completed 30 hours to be classified as a second year student and 60 hours to be classified as a third year student.

**CLASSIFICATION OF COURSES.** The courses offered by the University are classified as (a) lower division courses, numbered 1-99; (b) upper division courses, numbered 100-199; and (c) graduate courses, numbered 200-399.

**GRADUATION.**

**Responsibility of Student.** Every candidate for a degree is personally responsible for meeting all requirements for graduation. No University official can relieve him/her of this responsibility.

*For exceptions, see page 87.*
A student in the undergraduate program may fulfill requirements for graduation under any catalog during his/her years of attendance, beginning with the year he/she first entered the University, provided there is no absence of five or more years* between periods of attendance.

A student who returns to the University after an absence of five or more years* may no longer be a candidate for a degree on the basis of the catalog requirements covered by his/her previous years of attendance, but must fulfill for graduation all the requirements and provisions beginning with the catalog of the year in which he/she re-enters the University. In addition, credits earned at Valparaiso University more than fifteen years ago are subject to re-evaluation and shall not be accepted toward graduation requirements unless approved by the appropriate Faculty or University Senate Standing Committee.

In order to receive a second degree, a student must earn at least thirty semester credits and sixty quality points in excess of the total number of semester credits required for the first degree and must, in addition, fulfill all the specific course requirements for the second degree.

Students in the graduate program should refer to page 46 for specific information.

Degrees. Upon the recommendations of the Faculties of the Colleges of Arts and Sciences, Business Administration, Engineering, Nursing, School of Law, and the Graduate Council and the Graduate Faculty, the University confers the degrees as indicated below. All work toward a degree must be completed to the satisfaction of the Faculty recommending the degree. In all cases, the student is responsible for meeting the requirements for graduation.

The minimum number of credits required for graduation varies with curricula chosen, as shown in the following summary.

<table>
<thead>
<tr>
<th>Degrees</th>
<th>Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate in Science</td>
<td>60</td>
</tr>
<tr>
<td>Bachelor of Arts (except in combined curricula)</td>
<td>124-134</td>
</tr>
<tr>
<td>Bachelor of Music</td>
<td>124-134</td>
</tr>
<tr>
<td>Bachelor of Music Education</td>
<td>124-134</td>
</tr>
<tr>
<td>Bachelor of Science (except in combined curricula)</td>
<td>124-134</td>
</tr>
<tr>
<td>Bachelor of Science in Education</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Fine Arts</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Home Economics</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Physical Education</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Social Work</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Business Administration</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Civil Engineering</td>
<td>136</td>
</tr>
<tr>
<td>Bachelor of Science in Electrical Engineering</td>
<td>136</td>
</tr>
<tr>
<td>Bachelor of Science in Mechanical Engineering</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>90</td>
</tr>
<tr>
<td>Juris Doctor</td>
<td></td>
</tr>
<tr>
<td>Master of Arts in Liberal Studies</td>
<td>33</td>
</tr>
<tr>
<td>Master of Education</td>
<td></td>
</tr>
</tbody>
</table>

Credit and Quality Point Requirements. Candidates for graduation with the associate's degree or the bachelor's degree must have a standing of two (2.00) in all their work at Valparaiso University. In addition, candidates for the bachelor's degree must have a standing of two (2.00) in their major field, or fields, based upon their work at Valparaiso University. Also, candidates for the associate degree must have a standing of two (2.00) in all their science courses at Valparaiso University. In the computation of these standings grades of one (1.00) and zero (0) are included. Candidates for the master's degree, see page 47. Candidates for the J.D. degree, see page 232.

Repetition of Courses for Credit. Unless a course may be repeated for credit, only the credits, grade, and grade points received the last time a course is taken by a student shall be used in determining credit for graduation and the cumulative grade-point average(s). A grade of W shall be excluded from this policy.

Residence Requirements. Irrespective of other degree requirements, candidates for all bachelor's degrees must meet the following requirements in residence at Valparaiso University: 1) at least half (with a minimum of 15 credits) the number of credit hours required for the first major; 2) at least 3 credits in religion; 3) at least 3 credits in General Studies where required (Colleges of Arts and Sciences and Business Administration); and 4) at least 30 of the last 40 credits presented for the degree. Candidates for the master's degree, see page 232. Candidates for the master's degree, see page 47.

Ordinarily, credit is not given for courses taken at other approved schools or for correspondence courses taken during a student's residence at the University. Any exception to this policy must have the approval of a student's adviser, his/her dean, and the Committee on Academic and Professional Standards.

Application for Degrees. A student who wishes to receive his/her degree at the end of a Fall Semester must make formal application for the degree on a form provided for this purpose by the Registrar's Office not later than the preceding April 15th. A student who wishes to receive his/her degree at the end of a Spring Semester or a Summer Session, must make formal application for the degree on a form provided for this purpose by the Registrar's Office not later than the preceding October 15th.

A Summer Session student not enrolled in the previous academic year who expects to receive a degree at the end of a Summer Session must make application for the degree at the beginning of that Summer Session.

If, for any reason, a student (except graduate students) does not meet the requirements for graduation after filing his/her application, the student must file a new formal application (no charge) by the beginning of the session in which the student now expects to receive the degree.

Presence at Commencement. A candidate for graduation at the end of the spring term must be present at commencement in order to receive his/her degree. Degrees are not conferred in absentia, except on special permission from the President.

A student who completes his/her work toward a degree at the end of a Fall Semester or of a Summer Session may be granted the degree at that time.

Bachelor's Degrees with Distinction. A student who has been in attendance at Valparaiso University at least three years and who has maintained a standing of 3.60 in his/her work at this institution will be graduated "With High Dis-
tinction.” A student who has been in attendance for only two years must maintain a standing of 3.80 to be eligible for this honor.

A student who has been in attendance at least three years and who has maintained a standing of 3.40 in his/her work at Valparaiso University will be graduated “With Distinction.” A student who has been in attendance for only two years must maintain a standing of 3.60 to be eligible for this honor.

For the professional degree (J.D.), see page 232.

The number of years completed in this institution is determined by the number of semester hours earned and not by the time spent in residence.

HONORS IN SCHOLARSHIP. An undergraduate student (freshman, sophomore, junior, senior) who achieves a standing of 3.50* in any semester (except the last semester prior to graduation) will be awarded honors, provided that he/she received no grades of I or U at the official end of the semester concerned, and that he/she was registered for at least 14 hours of work for that semester in the College of Arts and Sciences (12 hours in the Washington Semester Program or the Semester on the United Nations or the Overseas Study Programs), for at least 15 hours in the College of Engineering, for at least 14 hours in the College of Business Administration, or for at least 14 hours in the College of Nursing.

Graduating senior honors are announced at Commencement and are based on the work of the last two semesters.

TRANSCRIPTS OF ACADEMIC RECORDS. The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) provides, in part, that the institution will maintain the confidentiality of student academic records. The University's entire policy may be found in the Student Handbook.

No one outside the University shall have access to nor will the University disclose any information from student academic records without the written consent of students, except to persons, organizations, or agencies which are permitted to receive such information under the Act.

With regard to transcripts of academic records, the University’s policy covering “dependency” determination is to consider all undergraduate students in the day program as “dependent,” unless they specifically inform the Office of the Registrar at the beginning of each academic year that they consider themselves to be “independent.”

Official transcripts of academic records are released only upon the written request of the student.

*For the School of Law, refer to page 231.
OBJECTIVES. The College offers courses which are designed to provide an intellectual foundation and context for the University’s undergraduate programs.

Some of the courses, such as those in writing, mathematics, and foreign languages, are valuable in themselves in addition to their important application to other fields.

Courses in the natural sciences acquaint the student with some of the methods and results of humankind’s efforts to understand and shape their natural environment as well as themselves, understood as part of nature. In the courses offered by the social sciences, students inquire into the problems connected with individuals and social groups living together in the peculiar conditions of the modern world. The humanities deal with values and perspectives as they are expressed in intellectual and artistic works. Especially important is the sequence of courses in religion in which the religious dimension of human life is examined. Emphasis is given to a study of the Christian tradition which has shaped much of our cultural heritage and still today lays claim to the loyalties of many people. By requiring a variety of courses in these major branches of learning, the general education program gives students many occasions in which they may discover their interests and competencies. Thus informed they may make intelligent choices of fields of concentration. By specifying that general education work continues into the student’s junior and senior years, the College affirms the ideal that specialization should always be accompanied by a widening circle of learning in order that the student may see and understand the world whole, as much as possible.

The College provides advanced work in a number of fields of study, including several professional programs. It is the objective of the College to provide each of its students with a field of concentration which will introduce him/her to the basic information, theory, and methodology of a discipline. Such specialization complements the breadth of the general education program, but at the same time can provide the background for graduate work, professional school, teacher certification, and many types of employment.
DEGREES AND DEGREE REQUIREMENTS. With each degree, the requirements consist of general education requirements and concentration requirements (including an academic major), plus sufficient elective credits to achieve the total credit requirement.

A detailed description of requirements is given in the section on the Bachelor of Arts degree (pages 74-75). For those degrees which are similar to the Bachelor of Sciences. A student may apply only four credits in Physical Education course.

Type of Requirement | Credits Required by Degree |
<table>
<thead>
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</thead>
<tbody>
<tr>
<td>General Education</td>
<td>A.S.</td>
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<tr>
<td>Religion</td>
<td>3</td>
</tr>
<tr>
<td>Language and</td>
<td></td>
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<tr>
<td>Communications</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0</td>
</tr>
<tr>
<td>Speech</td>
<td>0</td>
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<tr>
<td>Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
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<tr>
<td>Social Sciences</td>
<td>12</td>
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<tr>
<td>Behavioral and</td>
<td></td>
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<tr>
<td>Behavioral and</td>
<td></td>
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<tr>
<td>Natural Sciences</td>
<td></td>
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<tr>
<td>and Mathematics</td>
<td></td>
</tr>
<tr>
<td>General Studies**</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Sub-total for</td>
<td></td>
</tr>
<tr>
<td>General Education</td>
<td>18</td>
</tr>
<tr>
<td>Concentration</td>
<td>26</td>
</tr>
<tr>
<td>Electives</td>
<td>16</td>
</tr>
<tr>
<td>Total</td>
<td>60</td>
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</tbody>
</table>

Restrictions on the Use of Credits for Degrees in the College of Arts and Sciences. A student may apply only four credits in Physical Education course number 10 toward a degree in the College of Arts and Sciences, except for students majoring in Physical Education. Non-music majors are limited to 16 credits in applied music, of which no more than four may be in ensemble music. For further clarification regarding applied music and ensemble, see page 150.

No more than 48 credit hours in any one department may be included in the 124 total credits required for graduation. This limitation does not apply to students pursuing the Bachelor of Music or Bachelor of Music Education degrees, or students pursuing the degree of Bachelor of Science in Fine Arts who present 62 non-art credits.

A student may not apply more than 12 credits collectively from the professional colleges of the University toward a degree in the College of Arts and Sciences subject to the following exceptions:

1. Courses in Economics are excluded from this restriction.
2. For a student majoring in Economics, certain courses in General Administration are excluded from this restriction.
3. For a student in the Home Economics—Merchandising Program, courses in the College of Business Administration are excluded.
4. A student selecting a General Business Minor in lieu of a second major may earn up to 24 credits in Business Administration courses. Economics 71 and 72 will be counted in this total.

Note: A student who transfers from one of these professional colleges into the College of Arts and Sciences may elect to apply credits within the restrictions listed above.

Regulations Concerning General Education Requirements.

1. A student may not use any course to meet more than one general education requirement.
2. Only courses of at least three credits may be used in meeting general education requirements (excluding the requirement in physical education), except in specific cases where authorized.
3. A student may not use a course to meet both a general education requirement and the plan of study option of the concentration requirement.
4. Not more than one course in a student's major field or in the General Business Minor may be used in partial fulfillment of each one of the seven basic categories of the general education requirements, with the following exceptions:
   a. A student majoring in the Department of Foreign Languages may use two courses in his/her major to fulfill the Foreign Language requirement if he/she fulfills the Literature and Fine Arts requirement with a course outside his/her major.
   b. A student majoring in Physical Education may use two courses in his/her major to fulfill the Physical Education requirement.
   c. A student majoring in Religion may use three courses in his/her major to fulfill the Religion requirement.

The Associate in Science Degree.

A. General Education Requirements:
1. Religion (3 credits).
2. English 5, Exposition and Argument (4 credits), or its equivalent.
3. Humanities and Fine Arts (3 credits).
4. Behavioral and Social Sciences (3 credits).
5. Physical Education (1 credit).
For further information on these categories see pages 74 and 75 concerning The General Education Requirements of the Bachelor of Arts degree.

B. Concentration Requirements: A student must complete at least 30 credits in the Natural Sciences and Mathematics. (Students preparing for admission to one of the allied health fields should develop an appropriate program of study with the Dean's Office.)

C. Other Requirements:

1. A student must complete at least 60 credits.

2. The following work must be completed in residence at Valparaiso University:

   a. 30 of the last 34 credits toward the degree.
   b. At least 15 credits in the Natural Sciences and Mathematics.
   c. The General Education requirement in Religion.

3. The student must earn a cumulative grade-point average of 2.00 on all work in residence and on courses in the Natural Sciences and Mathematics taken in residence.

The Bachelor of Arts Degree.

A. General Education Requirements:

1. Religion. Three courses (9 credits) in the Department of Theology. See departmental listings for the required distribution of these courses.

2. Language and Communications. At least 12 credits including the following:

   a. English. One course (4 credits) in Exposition and Argument, or two courses (2 credits each) in Fundamentals of Composition.
   b. Foreign Language. Course Number 20 in a foreign language in which the student has no more than one year of high school credit, or Course Number 30 in any foreign language. (A student with more than one year of high school credit in a foreign language may not earn college credit in a First Semester course at Valparaiso University.)

3. Humanities and Fine Arts. At least 10 credits including the following:

   a. English. One course (4 credits) in Literary Studies.
   b. Literature or Fine Arts. One course (3 credits). (Only courses of a historical-critical nature may be selected from the fine arts.)
   c. History or Philosophy. One course (3 credits) selected from either department.

4. Behavioral and Social Sciences. Three courses (9 credits) from at least two of the following fields: Economics, Geography, History*, Political Science, Psychology*, and Sociology.

5. Natural Sciences and/or Mathematics. Three courses (12 credits) from at least two of the following fields: Biology, Chemistry, Mathematics, Physical Geography**, Physics, and Psychology (with laboratory).

   *A student may not apply more than one course in History and one in Psychology toward this requirement.
   **Courses in Physical Geography are listed under the Department of Geography.

6. General Studies. One upper-class liberal arts course (3 credits) of an integrative nature from outside the student's major field designated by the appropriate University committee.

7. Physical Education. Two single credit courses (2 credits). See page 72 for specific requirements.

B. Concentration Requirements:

1. A student must complete a minimum academic major. The following major fields which are offered by departments may be applied to the Bachelor of Arts degree: Art, Biology, Chemistry, Classics, Economics, English, French, Geography, Geology, German, Greek, History, Journalism, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, Spanish, and Speech and Drama with emphases in Drama, Communications, or Speech Pathology.

Of these major fields, Classics, French, German, Greek, Latin, and Spanish are offered by the Department of Foreign Languages; Geology is offered through a special program of the Department of Geography; and the remainder are offered by the departments of the same name. Certain interdisciplinary programs or approved Interdisciplinary majors may be presented in lieu of the majors listed above. See pages 87-91 for information on Interdisciplinary Studies. No more than 48 credits in any one field may be included in the 124 total credits required for graduation.

2. A student must further develop his/her concentration studies by one of the following options:

   a. By completing an individual plan of study of at least 40 credits which are not used to fulfill General Education requirements. The plan of study normally includes all work in the major field (except those credits used for General Education) plus appropriate courses from related disciplines. The plan of study must be approved by the major adviser prior to the time at which the student files for his/her degree.
   b. By completing a second academic major. This major may be selected from the list in paragraph 1 above. In addition Home Economics or Physical Education may be selected. See page 171 for details concerning a second major offered by the Department of Theology for students interested in voluntary service in the church. See pages 87 and 88 for details concerning the Interdisciplinary Program in Metropolitan Studies which offers a second major as well as other interdisciplinary programs.
   c. By completing a General Business Minor. See page 91 for details of this program.
   d. By completing at least 40 credits in the first major. No more than 48 credits in the major field may be included in the 124 total credits required for graduation.

The Bachelor of Music Degree. The requirements for this degree are given in the announcements of the Department of Music on page 145 of this bulletin.

The Bachelor of Music Education Degree. The requirements for this degree are given in the announcements of the Department of Music on page 147 of this bulletin.

*This requirement must be fulfilled at Valparaiso. It is waived for Christ College students.
The Bachelor of Science Degree. The requirements for this degree are identical with those of the Bachelor of Arts degree (See pages 74 and 75) except for the following:

1. The Foreign Language Requirement. A student must earn credit for a second semester course in a foreign language. (A student with more than one year of high school credit in a foreign language may not earn college credit in a first semester course at Valparaiso University.)

2. The Natural Science and Mathematics Requirement. A student must include at least one course (4 credits each) from each of the following groupings:
   a. Mathematics 36 (or its equivalent).
   b. Chemistry or Physics.
   c. Biology, Physical Geography, or Psychology (with laboratory).

3. Concentration Requirements. A student must include one science major of at least 32 credits and a plan of study; or one science major of at least 32 credits and a non-science major; or two minimum science majors (Biology, Chemistry, Geology, Mathematics, Physics, Psychology). Geology is offered in a special program of the Department of Geography. The others are offered by the departments of the same name.

The Bachelor of Science in Education Degree. The requirements for this degree are given in the announcement of the Department of Education on page 106 of this bulletin. (This curriculum is intended for students planning to become teachers in elementary schools.)

The Bachelor of Science in Fine Arts Degree. The requirements for this degree are identical with those of the Bachelor of Arts degree (see pages 74 and 75) except for the following:

1. The Foreign Language Requirement. Work in a foreign language is optional.

2. The Concentration Requirements:
   a. The student must complete a major in Art consisting of at least 40 credits and including Art 196.
   b. The student may earn more than 48 credits in the Department of Art provided that he/she earns at least 62 credits (of the minimum total of 124 credits) in other departments.
   c. The student must receive approval by the Department of Art of a portfolio presentation by the beginning of the junior year in order to be eligible for this degree.

Note: A student completing a major of at least 40 credits will be considered as completing the plan of study option.

The Bachelor of Science in Home Economics Degree. The requirements for this degree are identical with those of the Bachelor of Arts degree (see pages 74 and 75) except for the following:

1. The Foreign Language Requirement. Work in a foreign language is optional.
5. A senior integrative course or seminar is recommended in partial fulfillment of concentration requirements.

Students should consult with their advisers concerning priorities in developing schedules.

The following types of courses are applicable to the Literature or Fine Arts Requirement:

1. An intermediate (Number 65) or advanced literature course in the Department of English.
2. An advanced literature course in one of the foreign languages or a course in literature in translation (Number 50 or Greek 51) taught by the Department of Foreign Languages.
3. Any of the historical-critical courses in the fine arts listed in each semester's time schedule.

The Behavioral and Social Sciences. The Departments of Economics, Geography, History, Political Science, Psychology, and Sociology constitute the Behavioral and Social Sciences.

All students majoring in this area should consider the following guidelines for strengthening their programs beyond minimum requirements:

1. A year of Western Civilization or History of Philosophy is recommended.
2. A course in Mathematics and one in Statistics is recommended.
3. A course in non-Western studies is recommended.
4. A senior integrative course or seminar is recommended in partial fulfillment of the concentration requirements.

A student with a major in Economics, Geography, History, Political Science, or Sociology may complete a second major under the Interdisciplinary Program in Metropolitan Studies. See page 87 for further details concerning this program.

The Natural Sciences and Mathematics. The Departments of Biology, Chemistry, Mathematics, Physics, and Psychology constitute the Natural Sciences. The Department of Geography offers work in physical geography which is applicable to the natural science general education requirement and offers a major in geology available through a cooperative program with Indiana University—Northwest Campus. (See page 94 for details.)

A freshman student who plans to major in a science may have to postpone either mathematics or a foreign language for his/her program. He/she should give priority to mathematics. It is recommended that all students interested in this area fulfill the foreign language requirement with either French, German, or Russian. A student interested in graduate study should consult his/her department for further information on language work.

Since a major in this area may be applied toward either the Bachelor of Science or the Bachelor of Arts degree, students should note the differences in requirements for these degrees as given on page 76.

Finally, a senior integrative science course or seminar is recommended in partial fulfillment of concentration requirements.
Endorsements in:
- Reading
- Special Education (learning disabilities/neurologically impaired)
- Coaching
- Health Education
- Music
- Physical Education
- Recreation
- Visual Arts
- Conversion to Junior High/Middle School (5-9)
- Social Studies
- Language Arts
- Mathematics
- Science
- Foreign Language
- Visual Arts

All Grade Education (K-12)
- Coaching—endorsement
- Music (Area Major)
- Music (choral, general, or instrumental)—Major, Minor
- Physical Education
- Special Education—Minor
- Visual Arts
- Home Economics
- Recreation—Minor

Junior-Senior High (7-12)
- Coaching—endorsement
- Health and Safety—Minor
- Music—Minor
- Physical Education—Major, Minor
- Reading—Minor
- Special Education—Minor
  (Learning disabilities/neurologically impaired)

Senior High (9-12)
- Coaching—endorsement
- English—Major, Minor
- Foreign Language—Major, Minor
  French
  German
  Latin
  Spanish
- Health and Safety—Minor
- Journalism—Major, Minor
- Mathematics—Major, Minor
- Music—Minor
- Physical Education—Minor
- Reading—Minor
- Recreation—Minor
- Science
- Biology—Major, Minor
- Chemistry—Major, Minor
- Physics—Major, Minor

Earth Space Science—Minor
- General Science—Minor
- Physical Science—Minor
- Social Studies—Major, Minor
  Economics
  Geography
  Government
  Psychology
  Sociology
  U.S. History
  World Civilization
  Speech—Major, Minor
  Special Education—Minor
  Visual Arts—Major, Minor

Conversion of secondary license to Junior High/Middle School (5-9)
- English
- Foreign Language
- Journalism
- Mathematics
- Science
- Social Studies
- Speech
- Visual Arts
- School Services Personnel
- Nurse

The Teacher-Education Program is under the general direction of the Teacher-Education Committee. Eligibility for admission to the program is determined by the Committee.

Preparation for the Medical Arts. Students may prepare for entrance into medical, dental, veterinary, medical technology, or para-medical schools by entering one of the pre-medical arts programs of the University. Students in these programs must have their schedules approved at the beginning of each semester by an assigned special adviser. Advising in the medical arts is handled by pre-medical advisers or the Dean’s Office, depending on the student’s choice of field.

In some fields such as medicine, dentistry, and veterinary medicine completion of a bachelor’s degree is often advantageous before entering the professional program. However, if three years or less of college work are needed for entrance into a professional program, a student may earn a bachelor’s degree through the University’s Combined Liberal Arts-Medical Arts program. This involves three years of work at Valparaiso University and one year’s work at an approved professional school. (See the next section of this catalog for details.) This program is often used by students in medical technology. (The University has formal affiliations with the Schools of Medical Technology at St. Mary Medical Center, Gary, Indiana, Lutheran Medical Center, Cleveland, Fort Wayne Lutheran Hospital, and Evanston Hospital, Evanston, Illinois. However, students may attend other institutions.

Students wanting to enter allied health fields which require two years or less of college preparation may want to earn the Associate in Science degree at
Valparaiso University which requires two years of college credit. (See page 73 for requirements of this degree.) Further information about allied health fields may be obtained from the Dean's Office.

The Combined Liberal Arts-Medical Arts Program. A student may complete the degree of Bachelor of Arts or of Bachelor of Science from Valparaiso University by completing three years of study at the University and completing an additional year's work at an approved school of medicine, dentistry, veterinary medicine, medical technology, optometry, podiatry, physical therapy, or occupational therapy.

Specifically, the student who elects one of these programs must meet the following requirements:

1. He/She must spend the junior year in residence at Valparaiso University.
2. He/She must meet all general education requirements for the Bachelor of Arts or of the Bachelor of Science degree with the exception that one course in religion and the general studies requirement are waived.
3. He/She must complete an academic major. For the Bachelor of Science degree this major must be in one of the science fields.
4. He/She must offer at least 93 semester credits of college work.
5. He/She must make application for graduation by the deadline date as noted in the official University calendar as found on pages 3-6 of this catalog and present to the Registrar an official transcript of an additional year's satisfactory work at an approved professional school.

Combined Liberal Arts-Engineering Program. A student may earn in five years (ten semesters) both the Bachelor of Arts degree and one of the Bachelor of Science degrees in Engineering. He/She may earn the two degrees by completing one of the engineering curricula and completing the general education requirements of the College of Arts and Sciences as well as the major requirement of that college. This will require him/her to earn 166 credit hours and to have a standing of at least two (2.00) in all his/her work. Students electing such a program must have their schedules approved by both the Dean of the College of Arts and Sciences and the Dean of the College of Engineering at the beginning of each semester. Sample or representative curricula for such programs may be obtained upon application to the Dean of the College of Engineering.

Preparation for the Study of Law. According to the consensus of legal educators, particular courses are not a prerequisite for law study. Significant qualities of undergraduate preparation derive from the intellectual discipline required by exacting teachers rather than the subject matter of what is taught. The pre-law student should therefore consult with his academic adviser or Pre-Law Adviser to select courses in the student's areas of interest which will place demands on analytic skills and both verbal and written expression.

Preparation for the Foreign Service of the United States. A student who wishes to enter the Foreign Service of the United States should carefully prepare himself/herself for the Foreign Service Officer Examination. To this end, as many as possible of the following courses should be taken:
Principles of Economics (Economics 71 and 72)
American Literature (English 101 and 102)
Advanced Composition (English 131)
Modern Foreign Language—French, German, Russian, Spanish
(Enough courses to gain fluency in speaking)
Introduction to Human Geography (Geography 1)
Introduction to World Patterns (Geography 2)
Introduction to Political Science (Political Science 1)
Comparative Politics (Political Science 44)
International Relations (Political Science 65)
Public Administration (Political Science 162)
Foreign Political Areas (Political Science 153, 154, 158)
Western Civilization (History 1 and 2)
The History of the United States (History 30 and 31)
Introductory Sociology (Sociology 1)

For information concerning the Angus Ward Foreign Service Scholarship, see page 89.

Students interested in foreign service should also consider the Interdisciplinary Program in International Economics and Cultural Affairs outlined on page 89.

Program of Studies in Deaconess Ministry. The University and the Lutheran Deaconess Association cooperate in the education of women for service in Deaconess Ministry.

The student must meet the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts with a major in religion. She may elect to have a second major in her study program or develop an approved individual plan of study to complement the religion major. Each student must fulfill the requirements of the Department of Theology and the Lutheran Deaconess Association. She is expected to reside in Deaconess Hall in her junior and senior years.

Pi Delta Chi is the professional sorority of student Deaconesses. This organization assists the student in her understanding of the diaconate and of the varieties of ministries in which she can serve God and people.

Professional skill and understanding are developed initially through participation in a directed field work program.

A year of internship is required between the junior and senior year. Under special circumstances, the internship may be taken after the senior year. It is a period of experience in which the student serves but she is also testing herself in and developing the knowledge, skills, and understandings required for functioning in Deaconess Ministry.

Student Deaconesses are expected to participate in University activities as part of their learning experience.

A college graduate may complete the Deaconess educational program by attending Valparaiso University for a minimum of two semesters, with the specific requirements being determined on an individual basis.

The educational program is under the counsel and guidance of the staff of the Lutheran Deaconess Association. Inquiries should be directed to the

Director of Student Services.

Preparation for Seminary Entrance. Although the University is not one of the regular preparatory schools of the Lutheran Church with a special program of pre-seminary education, it is possible for students to prepare for the seminary in the University's College of Arts and Sciences. Upon graduation the students are eligible for matriculation at seminaries of the Lutheran Church—Missouri Synod and at other Protestant seminaries requiring the liberal arts B.A. The University Committee on Pre-Seminary Studies stands ready to assist such students in arranging their undergraduate programs for future seminary admission.

Normally, the students select a major and a minor from a wide variety of possible subject-matter areas; some in religion, others in philosophy, history, social sciences, classical languages, and English. The prime interest of the University and also of most seminaries is a thorough liberal arts education on the undergraduate level to give the future pastor the best possible cultural, historical, and intellectual training. Most seminaries require competence in the languages necessary for seminary studies: Greek, Latin, Hebrew, and German. Courses in all of these languages are offered at the University.

Students interested in preparation for entrance to a seminary may wish to pursue the special Interdisciplinary Major designed for pre-seminary students by the University Committee on Pre-Seminary Studies. Information on this major is available from the Chairperson of the Department of Theology.

INDEPENDENT GROUP STUDY PROGRAM. This Program is administered by the Dean of the College for students who desire to work as a group on an academic project.

Group Studies 100.
Independent Group Study Project. Each sem. Cr. 1-3. An independent group project is conducted on a topic selected by the group. Grading is limited to the use of S or W. Prerequisites: Approval of a faculty sponsor and the Dean of the College of Arts and Sciences.

A proposal for an independent group study project must be submitted to the Dean of the College of Arts and Sciences at least three weeks before the beginning of the registration period for the semester in which the project is to occur.

Further details and an application form may be obtained at the Office of the Dean of the College of Arts and Sciences.

BLACK STUDIES PROGRAM. The University has established a Black Studies Program. Consistent with the University's commitment to the Liberal Arts tradition, the special emphasis of this program is to assist the student to explore and understand the Afro-American experience.

The nature of the Afro-American experience is such that the program consists largely of work in the social sciences, humanities, and fine arts. Special courses and special sections of existing courses may be used in meeting requirements for a bachelor's degree. In recent years special sections of introductory courses in English and Religion have been offered in connection with this Program. In addition, courses in Black Humanities and The Black Urban Community were offered. Finally, certain regular offerings in History, Law, and Urban Studies were particularly appropriate to the Program.
This Program includes techniques of instruction and involves students in paracurricular and extra-curricular activities appropriate to the Black Experience.

Inquiries about this Program should be addressed to the Coordinator of Special Programs.

HONORS WORK. Honors work is designed for students of exceptional ability who might benefit by earning a limited number of the credits required for graduation through supervised independent study rather than through regular course work. Students making application for Honors Work should understand that their work will be evaluated according to the highest standards of scholarly achievement. Honors Work may be taken by students of the College of Arts and Sciences only in the humanities, the social sciences, the natural sciences, and religion. It may be taken only by candidates for the degree of Bachelor of Arts or Bachelor of Science.

A student who has completed at least 80 semester hours, but has not yet entered upon the work of the last two semesters, and who has a cumulative grade-point average of at least 3.5 may apply to the Dean's Office for admission to Honors Work with the consent of the chairperson of the major department.

A student making application for admission to Honors Work must present a plan for a major independent study project to be undertaken under the supervision of a member of the major department. This plan must be approved by the chairperson of the major department and submitted to the Committee on Honors no later than the end of the student's junior year. If the proposed independent study project is approved, the student shall enroll in the first semester of the senior year in course numbered 197 of the major department, "Honors Work."

A student who has been admitted to Honors Work must present four (4) copies of a completed draft of the independent study project to the chairperson of the major department at least seven days prior to the beginning of the final examination period of the fall semester. The project will be judged by a committee consisting of the chairperson of the major department, the adviser/sponsor, one departmental reader, and one outside reader appointed by the Committee on Honors. If the work presented is found worthy of Honors by the Committee on Honors, the student will be granted three credits with a grade determined by the Committee.

If admitted to candidacy for Honors, the student shall register during the spring semester of the senior year in course 198 of the major department, "Honors Candidacy." A student admitted to Honors Candidacy must complete the initial draft of the independent study project, incorporating additions or revisions suggested by the examining committee to its satisfaction. Six (6) copies of the completed project must be delivered to the chairperson by the Committee shall then schedule an oral examination for the Honors candidate to assess the student's knowledge of matter covered in the independent study project and any other closely related matters deemed appropriate by the Committee. The Honors candidate shall be apprised beforehand of the related matters to be included in the examination. If, in the opinion of the examining committee the candidate is worthy of honors, it shall recommend to the Dean that the student be awarded three (3) credits with a grade of 3.5 or 4.0 for course 198, "Honors Candidacy," and be graduated "With Honors" in the major field. If the candidate is not deemed worthy of honors, the Dean's Office, upon consultation with the examining committee, may recommend that the student be granted 3 semester credits for Independent Study in the major department with a grade determined by the Committee.

During the semester or semesters engaged in Honors Work, the student will not be permitted to carry more than 12 credit hours in addition to Honors Work. A student enrolled in "Honors Candidacy" will be excused from all regular final examinations of the last semester of the senior year.

INTERDISCIPLINARY STUDIES.

Interdisciplinary Majors. This major is an option intended for students with clearly defined academic and/or career objectives who may feel that their specific needs are not met by any single department in the College of Arts and Sciences. A student in the College may propose a plan for an Interdisciplinary Major which the Dean of the College may approve providing the following conditions are satisfied:

1. The proposed major must include at least twenty-four credits, chosen from two or more departments (32 for the Bachelor of Science degree), that are not used in meeting general education requirements.

2. The proposed major must include a comprehensive statement by the student justifying the overall major as well as the specific courses listed. (Revisions in the Interdisciplinary Major made subsequent to the original filing must also be approved by the Dean of the College).

3. The proposed major must include a statement by a member of the faculty indicating both support for the proposed major and a willingness to serve as adviser/sponsor.

4. The proposed major must be submitted to the Dean of the College of Arts and Sciences for approval, preferably by the beginning of the junior year, but no later than the deadline for filing for degree candidacy.

The selection of courses for the Interdisciplinary Major should reflect serious deliberation on the part of both student and sponsor. Normally, the Interdisciplinary Major will not include lower division courses or courses of an introductory nature.

The Interdisciplinary Major may be freely substituted for a regular academic major in any of the various combinations available to students in meeting concentration requirements for the Bachelor of Arts or Bachelor of Science degree.

Interdisciplinary Program in Metropolitan Studies. A student with a first major in Economics, Geography, History, Political Science, or Sociology may earn a second major in the area of urban studies. This interdisciplinary pro-
gram also permits any student to earn a minor or to construct a plan of study for the concentration requirements which uses courses from those listed below. This program is designed essentially to provide students of the social sciences with the tools which are necessary for the conduct of intensive analysis of problems in urban affairs.

Major (See introductory statement for restrictions on the use of this major). A minimum of 24 credits selected from those courses listed below and beyond the minimum credits required in the student’s first major field. Courses must include Economics 72, Geography 150, History 137, Political Science 155, Sociology 130 (Topic: Urban Sociology), and a course in statistics.

The Coordinator of the Interdisciplinary Program in Metropolitan Studies shall also serve as the adviser of the students enrolled in the program.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 15 credits selected from the courses listed below (and beyond the minimum credits required in the student’s major) constitutes a minor. Courses must include: Economics 72, Geography 150, History 137, Political Science 155, and Sociology 130 (Topic: Urban Sociology).

Courses Approved for the Program in Metropolitan Studies. Further details concerning the courses listed below may be found under the announcements of the individual departments.

Core Courses:
- Economics 72 Principles of Economics II Cr. 3
- Geography 150 Urban Geography Cr. 3
- History 137 History of the American City Cr. 3
- Political Science 155 Problems in State and Local Politics Cr. 3
- Sociology 130 Societal Structures: Urban Sociology (Specific course to be selected with advice of departmental committee member) Cr. 3

Other Courses:
- Art 111 Modern Design and Architecture Cr. 3
- Biology 153 Human Environmental Biology Cr. 3
- Economics 71 Principles of Economics I Cr. 3
- Economics 174 Public Finance Cr. 3
- Economics 182 Urban Economic Problems Cr. 3
- Economics 189 Problems in Economics Cr. 3
- Geography 70 Current Themes in Geography Cr. 3
- Geography 152 Urban and Regional Planning Cr. 3
- Geography 154 Cartography Cr. 3
- Geography 168 Independent Study in Geography Cr. 2-6
- Political Science 156 Problems in American Politics Cr. 3
- Political Science 175 Seminar in Political Science Cr. 2
- Sociology 130 Societal Structures: Ethnic Minorities Cr. 3
- Sociology 130 Societal Structures: Poverty, Social Stratification, or Systems of Justice Cr. 3-9
- Sociology 140 Social Institutions: Medicine Cr. 3
- Sociology 150 Social Processes: Juvenile Delinquency and Criminology Cr. 3

Interdisciplinary Program in International Economics and Cultural Affairs. This special interdisciplinary program is designed to provide essential background for students considering careers in the fields of international commerce or government service. In pursuance of this goal, it provides background in a modern language and the culture and customs of those who speak it, instruction in international economics, and a survey of appropriate areas of geography, history, and political science. Students interested in pursuing the Interdisciplinary Program in International Economics and Cultural Affairs should contact the Chairperson of the Department of Foreign Languages.

Required Courses: Students completing this 53 credit program will have fulfilled the following General Education requirements for the Bachelor of Arts degree: (1) The 9-credit hour requirement in the Behavioral and Social Sciences category and (2) The History or Philosophy requirement in the Humanities and Fine Arts category.

Students are urged to take, in addition to these courses, a number of recommended elective courses. A list of these recommended courses is available from the Chairperson of the Department of Foreign Languages.

Foreign Language. Students must select one of the following Foreign Language concentrations. Please note that the courses listed are taken beyond the introductory level.

French
- 50 Topics in French Literature Cr. 3
- 110 Conversational French Cr. 2
- 111 French Composition and Conversation Cr. 2
- 114 Contemporary French Language and Communications Cr. 4
- 116 Professional French Cr. 2
- 130 French Civilization Cr. 4*

German
- 50 Topics in German Literature Cr. 3
- 110 Conversational German I Cr. 2
- 112 Written German Cr. 2
- 114 Contemporary German Language and Culture Cr. 4
- 116 Professional German Cr. 2
- 130 German Civilization Cr. 4
- 131 German Civilization or Spanish-American Civilization Cr. 4

Spanish
- 50 Topics in Hispanic Literature Cr. 3
- 111 Spanish Composition and Conversation Cr. 4
- 114 Contemporary Hispanic Society through Communications Cr. 4
- 116 Professional Spanish Cr. 2
- 130 Spanish Civilization Cr. 4
- 131 Spanish-American Civilization Cr. 4

*By course intensification.
In addition to the above required courses, a special senior research project earning 3 credit hours is required of each student pursuing this interdisciplinary program. The project shall be under the jurisdiction of the department appropriate to the subject selected for research.

Interdisciplinary Program in Criminal Justice. The University has instituted a multi-disciplinary Criminal Justice Program designed to provide students with a well-rounded liberal arts education while permitting students to do concentrated, specific study in areas of relevance to the criminal justice system and the students’ career objectives.

The first two years provide the student with a general introduction to the criminal justice system and the academics underlying the operation of its various components. The second half of the program exposes students to the application of theory in real work situations. At the end of the four-year program, students will have been thoroughly immersed in current research and theory applicable to their particular academic tract, received practical exposure to the system through field experiences and internships, and received a well-rounded liberal arts education consistent with the ideals and general education requirements of the University.

During the student’s tenure at the University, he/she will have a wide variety of courses available to him/her. Among the criminal justice/deviance courses offered are:

- Introduction to Criminal Justice
- Juvenile Delinquency and Criminology
- Issues in Social Justice
- Introduction to the Legal Process
- Sociology of Law

Deviance Theory
Penology
Probation and Parole
Drug Addiction
Sociology of Mental Illness
Sociology of Sexual Deviance

Under most circumstances, students will likely select one of the following areas in which to specialize:

- Corrections
- Probation and Parole
- Prevention
- Police
- Judiciary
- Criminology
- Juvenile Delinquency
- Administration

The curriculum of the Criminal Justice Program is, however, flexible. With justification, students can compose their own program of study should the tracts listed above be unsuitable.

Students interested in this Program should contact the Chairperson of the Department of Sociology.

GENERAL BUSINESS MINOR. The program in the field of general business, as prescribed below, offered to students with primary majors in the College of Arts and Sciences is designed to provide minimal exposure to fundamental areas within the business field. An offering of this type cannot be expected to supply all the necessary qualifications for specific job or occupational fulfillment.

This General Business Minor is a third option of concentration requirement number 2 for degrees offered in the College of Arts and Sciences. Twenty-four semester credits are required for this minor consisting of the following:

- Accounting 1 and 2 Cr. 6
- Economics 71 and 72 Cr. 6
- Administrative Sciences 21 Cr. 3
- Administrative Sciences 31 Cr. 3
- Administrative Sciences 61 Cr. 3
- Administrative Sciences 62 Cr. 3

At the time Arts and Sciences majors select this minor, they must declare their intention to the Dean, College of Business Administration. Students must meet all course prerequisites. Rules governing required grade-point average and residence requirements are the same for the General Business minor as for academic majors in the College of Arts and Sciences. Courses may not be taken on an S/U basis.

Students who fail to achieve the required 2.00 grade-point average in the General Business minor may not take additional hours in Business Administration courses, but must repeat courses to achieve the required 2.00 average.

*Only 3 credits are applicable toward fulfilling the Behavioral and Social Science area of the General Education Requirements.
OFF-CAMPUS PROGRAMS.

International Studies Semester. The University conducts an International Studies Program in which a student has the opportunity to study for one semester at one of the University's overseas centers. At the present time, student centers are maintained in Cambridge, England, and Reutlingen, Germany. Each semester approximately twenty undergraduate students may study at each center. These centers offer the students a chance to broaden their knowledge and expand their experience through extensive travel, personal contact, and day-by-day living in a different cultural environment. Inherent in this experience is the development of individual freedom, responsibility, and independence.

Supervising each center is a director from Valparaiso's faculty who secures residences, enlists faculty members, and instructs in two courses. Each center's curriculum is based upon the geographical and cultural setting of the area. Students are required to take at least twelve credit hours of the fifteen offered at each center, and independent-study projects may also be arranged. The courses are taught by the director and local faculty. All credit hours are considered as residence work applicable to graduation from Valparaiso University. Students register at Valparaiso and pay the normal tuition, room without board, general fees, and an additional travel expense which covers air travel and other transportation costs to and from either the Cambridge or Reutlingen Center.

Washington Semester Program. This Program, established by an agreement concluded between the American University, Washington, D.C., and Valparaiso University, makes it possible each semester for three superior students to spend one semester of their junior year (or some other semester by special arrangement) at the American University. The purpose of the program is to give the selected students an opportunity to study at first hand the intricacies of the operation of the national government and to obtain an intimate contact with the broad range of governmental and political activity through field visits, consultation with officials, and evaluating sessions led by academic instructors. Only students who have had the course in Political Science 1 will be considered candidates for this program.

Valparaiso students register at Valparaiso for the Washington Semester and pay the usual tuition and other fees to Valparaiso. Expenses for travel, meals, and lodging are paid directly by the students. The Washington Semester gives full credit toward graduation from Valparaiso University. Not open to students who have participated in the Semester on the United Nations.

For information concerning the Washington Semester Program Loan Fund, see page 41.

Urban Affairs Semester Program. This Program, established by an agreement with the American University, Washington, D.C., makes it possible for selected students to spend one semester of their junior year (or some other selected students to spend one semester of their junior year (or some other semester by special arrangement) at the American University. The program is designed to provide students with a broad introduction to urban problems and programs and to examine the intergovernmental characteristics of policy-making. It has four objectives: (1) to provide a solid academic base upon which a student can develop his/her own unique and personal educational goals, (2) to take advantage of the unique facilities and environment of the nation's Capital, (3) to use the practical to build toward the theoretical, particularly in the writing of integration papers and the research project, and (4) to provide contact in seminars with officials of local, state, and national government, political parties, interest groups, and the press.

Only students who have had the courses in Political Science 1 and 2 will be considered candidates for this program.

Valparaiso students register at Valparaiso for the Urban Affairs Semester and pay the usual tuition and other fees to Valparaiso. Expenses for travel, meals, and lodging are paid directly by the students. The Urban Affairs Semester gives full credit toward graduation from Valparaiso University. Not open to students who have participated in the Washington Semester or the Semester on the United Nations.

Semester on the United Nations. This Semester, established by agreement with Drew University, Madison, New Jersey, makes it possible for selected students to spend one semester of their junior year (or some other semester by special arrangement) at Drew University. The curriculum revolves around the-on-the-scene observations and analyses of the United Nations through direct contact with the United Nations meetings and headquarters. For two days each week of the semester the student will be in the proximity of the United Nations in New York under the supervision of a member of the Drew University faculty.

Valparaiso students register at Valparaiso for the Semester on the United Nations and pay the usual tuition and other fees to Valparaiso. Expenses for travel, meals, and lodging are paid directly by the students. The Semester on the United Nations gives full credit toward graduation from Valparaiso University. Not open to students who have participated in the Washington Semester Program. Only students who have had the course in Political Science 44 will be considered candidates for this program.

For information concerning the Valparaiso Branch of the American Association of University Women Loan Fund, see page 41.

The Merrill-Palmer Program. This Program, established by an agreement with Merrill-Palmer Institute, Detroit, Michigan, and Valparaiso University, makes it possible for selected students to spend a part or all of their junior year, or senior year, or a summer session at Merrill-Palmer. The purpose of the program is to give the superior student an opportunity to interrelate knowledge and to foster inter-personal relations through seminars, class discussions, and practicums. This experience will provide opportunities for work in social services and nursery schools. This program is available to students with a background in Biology, Economics, Home Economics, Psychology, and/or Sociology.

Valparaiso students register at Valparaiso for the Merrill-Palmer Program and pay the usual tuition and other fees to Valparaiso at the current rate. Expenses for travel, meals, and lodging are paid directly by the students. The Merrill-Palmer Institute gives full credit toward graduation from Valparaiso University. In the event the tuition and fees at Valparaiso University exceed the tuition and fees at the Merrill-Palmer Institute, Valparaiso University shall retain $75.00 of this surplus and refund the remainder to the
152. Sculpture: Advanced Studies. Each sem. 0-1-6, Cr. 3. Advanced problems in the sculpture processes. Prerequisite: Art 151. Studio fee, $15.00.

161. Printmaking. Each sem. 0-1-6, Cr. 3. An introduction to print techniques and composition. Semester 1 deals with projects in relief and intaglio. Semester 2 deals with projects in serigraphy. May be taken more than once if topics are different. Prerequisite: Art 21. Studio fee, $15.00.

162. Printmaking: Advanced Studies. Each sem. 0-1-6, Cr. 3. A continuation of Art 161 with special emphasis on color and photo processes. The student may work in any of the printmaking processes previously examined in Art 161. Prerequisite: Art 161. Studio fee, $15.00.

TEACHING.

109. Elementary School Art-Methods and Materials Workshop. Each sem. 0-4, or 0-1-8, Cr. 3 or 4. A basic course providing the prospective teacher with studio experiences in the selection, organization, and use of two- and three-dimensional art and craft materials for the elementary school. The fourth credit provides opportunities to work in elementary classrooms. This course may not be counted toward a minimum major or a minor in the department. Field trip. Studio fee, $15.00.

110. Secondary and Middle School Art-Methods and Materials Workshop. Sem. 2. 0-1-8, Cr. 4. A basic course providing the prospective teacher with studio experiences in the selection, organization, and use of two- and three-dimensional art materials for the junior and senior high school. This course may not be counted toward a minimum major or a minor in the department. Field trip. Studio fee, $15.00.

191. The Teaching of Art. Sem. 1. Cr. 3. A study of the methods of teaching art in the secondary schools. (See Education 191.) This course may not be counted toward a major or a minor in the department. Prerequisite: admission to Supervised Teaching.

SPECIAL STUDIES.

196. Senior Studies. Each sem. Cr. 3. Independent work in a major's specialized program. This work should contribute to and result in a senior exhibition and portfolio. Participation in departmental meetings, seminars, and special events is considered an integral part of this course. May be repeated for credit. Prerequisites: senior art major and consent of the department chairperson.

198 (298). Special Studies. Each sem. Cr. 1-4. Special work in the practice of art or the teaching of art arranged for by a professor and one or more students. Included may be, for example, work in the crafts, in liturgical design, or in areas of the practice of art or the teaching of art offered in the catalog. A Satisfactory/Unsatisfactory grade may be given if so stipulated at the beginning of the course. May be repeated for credit. Prerequisite for undergraduates: upperclass major or consent of the instructor. Prerequisite for graduates: art major, Studio fee, $5.00 per credit hour.

BIOLOGY

STAFF: Professor Krekeler (Chairman); Professors Bloom, Hanson, and Nicholas; Associate Professors Marks, F. Meyer, and Tan; Assistant Professor Nickels.

Major. A minimum of 28 credits in biology. Courses must include Biology 50, 56, 57, 61 (or 62), 63, and 72; one of courses 64, 65, or Biological Topics: Vertebrate Anatomy; at least three of courses 157, 159, 161, 170, 175; and at least two credits in 185, Biological Problems, and/or 193, Seminar in Biology.

 Majors must include General Chemistry and Organic Chemistry 71 in their program. The major's plan of study should also include courses in physics, mathematics, statistics, and additional chemistry. The most appropriate foreign languages for biology majors are German and French.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 15 credits in biology constitutes a minor.

Requirements for the minor are as follows:

1. Anatomy and Physiology. Sem. 2-1-2, Cr. 3. A course of the structure and function of the organs of the human body. Lectures and laboratory work dealing with the epithelial and connective tissues, the skeleton, muscles, the nervous system, and special sense organs, the circulatory system and the blood; the digestive, respiratory, excretory, endocrine, and reproductive systems; and human development. (Given in St. Louis, Ft. Wayne, and Cleveland Divisions only).

41. Anatomy and Physiology. Sem. 2. 2-1-2, Cr. 3. A continuation of Biology 41. (Given in St. Louis, Ft. Wayne, and Cleveland Divisions only).

42. Anatomy and Physiology. Sem. 2. 2-1-2, Cr. 3. A study of micro-organisms and their relation to health and disease. (Given in St. Louis, Ft. Wayne, and Cleveland Divisions only).

46. Microbiology. Sem. 2-1-2, Cr. 3. A study of the types and functions of micro-organisms. (See Biology 57.)

60. Unity of Life. Each sem. 3+3, Cr. 4. An introductory course designed to give the student a broad view of the principles of biology as related to the nature and activities of protoplasm and the structure, physiology, ecology, reproduction, growth and development of organisms. These principles are considered in historical perspective and include examples from microbes, plants, and animals. No prerequisite. Laboratory fee, $5.00.

56. Diversity of Plants. Each sem., first seven weeks. 2-1-2, Cr. 3. A study of the diversity of plants. This course, together with Biology 57, may be used to fulfill the natural science general education requirement. Prerequisite: Biology 50. Laboratory and field trip fee, $5.00.

57. Diversity of Animals. Each sem., second seven weeks. 2-1-2, Cr. 2. The animal component of Diversity of Life. This course, together with Biology 56, may be used to fulfill the natural science general education requirement. Prerequisite: Biology 50. Laboratory and field trip fee, $5.00.

61. Genetics. Each sem. 2-1-3, Cr. 3. An introductory study (lecture problems, laboratory) of the basic laws of genetics, the physical and chemical basis of inheritance, genes as functional and structural units of heredity and development, and qualitative and quantitative aspects of genetic variation. Prerequisite: Biology 50. Laboratory fee, $5.00. (May not be counted toward the minimum General Education Requirement in the Natural Sciences and Mathematics. See Biology 62.)

62. Genetics. Each sem. 3-1-3, Cr. 4. Same as Genetics 61 with additional lecture topics on human genetics and social implications. May be used in partial fulfillment of the general education requirement in the Natural Sciences and Mathematics. Prerequisite: Biology 50. Laboratory fee, $5.00.

63. Evolutionary Biology. Sem. 2. 1+0, Cr. 1. A study of the theory of organic evolution, especially the mechanisms currently postulated. Emphasis is on population genetics and speciation. Normally accompanied by Biology 64, 65, and/or 101 Biological Topics: Vertebrate Anatomy. Prerequisite: Biology 61 or 62. This will be offered as a short course.

64. Entomology. Sem. 2. 0-1-6, Cr. 2. Field work, and discussions dealing with the systematics and basic biology of insects and their arthropod relatives. Normally accompanied by Biology 63. Prerequisite: Biology 56 and 57. Laboratory fee, $5.00.

*Credit for Biology 50 may be earned through the College Level Examination Program (CLEP) subject examination in Biology.
65. Systematic Botany. Sem. 2. 0+6, Cr. 2. Laboratory, field work, and discussions dealing with the systematic and basic biology of the seed plants. Normally accompanied by Biology 63. Prerequisites: Biology 56 and 57. Laboratory fee, $5.00.

72. Introduction to Molecular Biology. Sem. 2. 1+0, Cr. 1. Lectures on the chemical nature and behavior of biological macromolecules: polysaccharides, proteins, nucleic acids, and lipids. Prerequisites: Biology 61 (or 62) and Chemistry 71. This will be offered as a short course.

101. Biological Topics. Each sem. Cr. 2-3. A consideration of various topics in biology through lectures, laboratory work, field work, and/or conferences. The topics presented will be related to staff and student interests. May be taken more than once if topics are different. A sample of possible offerings is: Ornithology, Biometry, Experimental Botany, Radiation Biology, Immunology, Vertebrate Anatomy, Tropical Biology, Neural Physiology. Prerequisites: Biology 50 and consent of the instructor. Laboratory fee, $10.00.

105 (205). Biochemistry. (Also offered as Chemistry 105-205). Sem. 2. 4+1, Cr. 4. The chemistry of proteins, carbohydrates, fats, and nucleic acid, and the changes these undergo during processes of digestion and metabolism; stress on physical biochemistry topics and enzyme kinetics. Prerequisite: Chemistry 71 or equivalent.

110. Microbiology. Each sem. 2-5, Cr. 4. A study of bacteria, viruses, and selected fungi. Major emphasis is given to understanding infectious disease and immunology. Prerequisites: Biology 50 and Chemistry 44 or 52. Laboratory fee, $5.00. (May not be credited toward graduation by students who take Biology 159.)

115. Anatomy and Physiology. Each sem. 2-5, Cr. 4. A study of the structure and function of the organs and systems of the human body. Prerequisites: Biology 50 and Chemistry 44 or 52. Laboratory fee, $5.00.

153 (253). Human Environmental Biology. Each sem. 2+3, Cr. 3. Lectures and conferences on humankind in its various environments. Special emphasis is given to the problems of human population growth, humanity's impact on the natural environment, resources, pollution, and diseases associated with the environment. May be used to meet the General Studies Requirement. Prerequisites: completion of general education natural science requirements and junior standing. Field trip fee, $5.00.

157 (257). Ecology. Sem. 1. 2+5, Cr. 4. A study of organisms in relationship to their physical and biotic environment. There is considerable field work in local terrestrial and aquatic habitats. Prerequisite: Biology 64 or 65. Laboratory and field trip fee, $10.00.

159 (259). Bacteriology. Sem. 2. 2+6, Cr. 4. A study of the cell biology of bacteria and their viruses including morphology, growth and cultivation, physiology, environmental factors, and genetics. Prerequisites: Biology 61 (or 62) and 72 and Chemistry 71. Laboratory fee, $5.00.

161 (261). General Physiology. Sem. 1. 3+3, Cr. 4. A study of the fundamental physiologic- cal activities of animals and plants. The course will consist of lectures, assigned readings, and experimental work in nutrition (including synthesis, oxidation, and energy release of nutrients and elimination of waste products), irritability and response, and growth and reproduction. Prerequisites: Chemistry 71 and Biology 72. Laboratory fee, $5.00.

170 (270). Cytology. Sem. 2. 2+3, Cr. 3. An introduction to cell biology with reference to composition, structure, function, growth, and differentiation of cells. Cytological aspects of genetics are emphasized. Laboratory work in experimental cytology. Prerequisites: Biology 61 (or 62) and 72 and Chemistry 71. Laboratory fee, $5.00.

175 (275). Developmental Biology. Sem. 1. 2+3, Cr. 3. An introduction to the descriptive and comparative study of plant and animal development and growth, with emphasis on higher plants and vertebrate animals. Prerequisite: Biology 61 (or 62). Laboratory fee, $5.00.

185. Biological Problems. Each sem. Cr. 1. Special research problems. Prerequisites: 14 credit hours in the department and consent of the chairperson of the department. A maximum of 4 credits in this course may be applied toward graduation. S/U grade.

194. The Teaching of Biological Sciences. Sem. 2. 1+1, Cr. 2. (See Education 191.) The aims and methods of teaching biology, botany, and zoology in the secondary school. Lectures, discussions, demonstrations, and projects. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or a minor in this department.

193. Seminar in Biology. Each sem. Cr. 1. Student and staff presentation and discussion of selected topics in biology. A sample of current topics is: Bioethics, Biological Effects of Drugs, Biology of Sex, Endocrinology, Human Evolution, History of Biological Thought, Human Genetics, Immunology, Light and Life, Protozoology, Radiobiology. Prerequisites: 14 credit hours in the department or consent of the chairperson of the department; certain topics may have specific course prerequisites. At least three topics will be offered each semester so that during a two-year period a broad spectrum of topics will be available. A maximum of two Seminars may be credited toward graduation. S/U grade optional.

CHEMISTRY

STAFF: Professor Cook (Chairman); Professors J. Deters, Larson, Leoschke, Nagel, Schwan, and L. Oliver Smith; Associate Professor Ferguson; Assistant Professor Kosman

Major. A minimum of 24 credits in chemistry. Courses must include Chemistry 51, 52 (or 63), 64, and 108 or 110.

Prospective chemistry majors planning to enter the chemical profession or a graduate school should complete not less than 32 credit hours in chemistry beyond the introductory courses. This major must include Chemistry 64, 80, 110, 122, 134, 138, 150, and one other advanced course selected from 160, 196, or an advanced course in physics or mathematics. German is recommended for meeting the foreign language requirement. This program of courses meets the minimum requirements for certification by the Committee on Professional Training of the American Chemical Society. The Department has the approval of that Committee.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 16 credits in chemistry constitutes a minor, Chemistry 64 and 71 must be included.

Approval of Schedules. All students taking a major or a minor in the department must have their schedules approved by the chairperson of the department at the beginning of each semester. Students who pass the Chemistry Placement Examination and successfully complete Chemistry 63 will be granted 8 credits toward graduation.

Undergraduate and Graduate Credit.

*43. General Chemistry. Each sem. 3-1, Cr. 4. Intended for students who elect chemistry to meet one of the natural science requirements. It is a study of the principles of chemistry. Students taking a major or minor in Elementary Education, Home Economics, Nursing, or Physical Education should take this course to meet their chemistry requirement. (Not open to students who have taken Chemistry 51.) Laboratory fee, $15.00.

*44. General Chemistry. Sem. 2. 3-1, Cr. 4. A continuation of Chemistry 43. It includes the study of organic chemistry and biochemistry. The laboratory work includes organic and biochemical laboratory procedures. (Not open to students who have taken Chemistry 52.) Prerequisite: Chemistry 43 or 51. Laboratory fee, $15.00.

†Four hours in an advanced course in physics or mathematics may substitute for four hours in chemistry.

*Credit for Chemistry 51 and 52 (or 43 and 44) may be earned through the College Level Examination Program (CLEP) subject examination in General Chemistry.

‡Leave of Absence, Spring Semester 1977-1978.

‡Leave of Absence, Academic Year 1977-1978.
47. General Chemistry. Sem. 1. 3+2, Cr. 4. This course consists of an introduction to inorganic, organic and physiological chemistry. (Given in St. Louis, Ft. Wayne, and Cleveland Divisions only).

*51. General Chemistry. Sem. 1. 3-1, Cr. 4. An introductory course in the fundamental principles of chemistry designed primarily for students who wish to pursue a scientific vocation. It is required of majors and minors in chemistry, and students in the pre-medical, pre-dental, or medical technology curricula except for students who take Chemistry 63. Laboratory fee, $15.00.

51E. General Chemistry. Sem. 1. 3-2, Cr. 4. Same as Chemistry 51 except for laboratory hours. Intended for engineering students. Laboratory fee, $15.00.

*52. General Chemistry. Sem. 2. 3+3, Cr. 4. A continuation of Chemistry 51. Semi-micro inorganic qualitative analysis is included in the laboratory work. Prerequisite: Chemistry 51. Laboratory fee, $15.00.

52E. General Chemistry. Sem. 2. 3+0, Cr. 3. Same as Chemistry 52 except for laboratory hours and more emphasis on organic chemistry. Intended for engineering students. Prerequisite: Chemistry 51.

55. Physiological Chemistry. (Also offered as Home Economics 65.) Sem. 2. 3+0, Cr. 3. The chemistry of proteins, carbohydrates, fats, and fats, and the changes these undergo during processes of digestion and metabolism; brief consideration of enzymes, vitamins, and the chemistry of food processing. This course may not be counted toward a major or minor in chemistry. Prerequisite: Chemistry 44.

63. General Chemistry. Sem. 1. 3+3, Cr. 4. An accelerated introductory course in the fundamental principles of chemistry for students with a strong background in chemistry. The laboratory includes semi-micro inorganic qualitative analysis. This is the introductory course that would normally be taken by the student planning to enter the chemical profession or graduate work in chemistry. Admission by special examination. Laboratory fee, $15.00.

64. Quantitative Analysis. Each sem. 3+4, Cr. 4. A study of the theory of chemical equilibria, electrochemistry and elementary chemical analysis. The laboratory work consists of an introduction to gravimetric, volumetric, and instrumental methods of analysis. Prerequisite: Chemistry 52 or 63. Laboratory fee, $15.00.

71. Organic Chemistry. Each sem. 3+3, Cr. 4. An introductory survey of the nomenclature, reactions, structure, and properties of carbon compounds. Prerequisite: Chemistry 52 or 63. Laboratory fee, $15.00.

80. Electronics and Scientific Instrumentation. (Also offered as EE 80 and Physics 80.) Sem. 2. 3+1, Cr. 1. Theoretical, electronic principles and devices are studied, with applications to scientific instrumentation. Laboratory experience with modern instruments is emphasized and simple troubleshooting techniques are taught. Prerequisites: Physics 77 or concurrent enrollment and sophomore standing. Laboratory fee, $15.00.

101 (201). Elementary Physical Chemistry. Sem. 1. 3+3, Cr. 4. A one-semester course in physical chemistry covering elementary thermodynamics and kinetics, together with their applications to various chemical systems. Prerequisites: Chemistry 64 and 71 or equivalent. Laboratory fee, $15.00. (Not open for credit to students who have taken Chemistry 121.)

102. Perspectives in Science. Sem. 2. 3+0, Cr. 3. A study of the philosophical and historical basis of scientific theories, and of the methods of scientific research. This course may be used to meet the General Studies Requirement.

105 (205). Biochemistry. (Also offered as Biology 105-205.) Sem. 2. 4-1, Cr. 4. The chemistry of proteins, carbohydrates, fats, and nucleic acid, and the changes these undergo during processes of digestion and metabolism; stress on physical biochemistry topics and enzyme kinetics. Prerequisite: Chemistry 71 or equivalent.

108. (Formerly 118.) Intermediate Organic Chemistry. Sem. 2. 3+3, Cr. 4. A further study of the properties of carbon compounds, including reaction mechanisms and complex organic reactions. Special topics of interest to pre-medical arts students are included. Prerequisite: Chemistry 71. Laboratory fee, $15.00. (Not open for credit to students who have taken Chemistry 110.)

110. (Formerly 120.) Intermediate Organic Chemistry. Sem. 2. 3+3, Cr. 4. A further study of the properties of carbon compounds, including reaction mechanisms and complex organic reactions. This course is recommended for those planning to enter the chemical profession or graduate school in chemistry. Prerequisite: Chemistry 71. Laboratory fee, $15.00. (Not open for credit to students who have taken Chemistry 108.)

121. (Formerly 111.) Physical Chemistry. Sem. 1. 3+3, Cr. 4. A theoretical study of chemistry involving thermodynamics, kinetics and modern structural concepts. Prerequisites: Chemistry 64 and 71 (71 may be taken concurrently), Mathematics 76 or equivalent, and Physics 78. Laboratory fee, $15.00.

122. (Formerly 112.) Physical Chemistry. Sem. 2. 3+3, Cr. 4. A continuation of Chemistry 121. Prerequisite: Chemistry 121. Laboratory fee, $15.00.

130. Chemical Literature. Sem. 2. 1+0, Cr. 1. Discussion and library work on the important sources of chemical information. Experience in the use of Chemical Abstracts, Bellstein, and chemical journals.

134 (122). Analytical Chemistry. Sem. 2. 2+4, Cr. 3. A study of the theory and practice of instrumental and other advanced analytical techniques. Prerequisite: Chemistry 122 (may be taken concurrently). Laboratory fee, $15.00.

138 (236). (Formerly 150-230.) Inorganic Chemistry. Sem. 1. 3+0, Cr. 3. A systematic study of the elements and their compounds from the standpoint of the periodic law. Special theoretical topics in inorganic chemistry are discussed. Prerequisite: three years of chemistry.

142. (Formerly 192.) Seminar in Chemistry. Each sem. Cr. 1. (Concurrent with 143-144.) Required of all junior forty-credit hour majors. They are expected to participate in discussions but are not required to present a report on a special topic in chemistry. Interested freshmen and sophomores are invited to attend. S/U grade.


150 (250). (Formerly 140-240.) Advanced Organic Chemistry. Sem. 1. 1-8, Cr. 3. The lecture is devoted to a discussion of physical organic chemistry with experimental methods illustrated by modern organic analysis. The laboratory is devoted primarily to organic analysis by functional groups and by modern instrumental techniques. Prerequisites: Chemistry 110 and 111 of senior standing, or permission of the department, and the chairperson of the department. Laboratory fee, $15.00.

160. Quantum Mechanics. Sem. 1. 3+0, Cr. 3. The fundamental concepts of quantum mechanics are examined. Topics include state functions and their interpretations, the Schrödinger equation, approximation methods, multielectron atoms, and molecules. Prerequisite: Chemistry 122 or consent of the instructor.

191. The Teaching of Physical Sciences. 1+3, Cr. 2. (See Education 191.) A study of the methods of teaching physical science in secondary schools by those who have taken Chemistry 121. Laboratory demonstrations and reference reading; problems relating to laboratory construction and equipment; standard tests. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in this department. (Given upon sufficient demand.)

195. Special Problems in Chemistry. Sem. 1. Cr. 1-2. A course for senior majors in chemistry. Each student attacks a chemical problem by study of the literature and by work in the laboratory. A written report is required. Prerequisite: senior standing in the department. Laboratory fee, $5.00 per credit hour.

196. Special Problems in Chemistry. Sem. 2. Cr. 1-2. A continuation of Chemistry 195. Prerequisite: Chemistry 195. Laboratory fee, $5.00 per credit hour.

*Credit for Chemistry 51 and 52 (or 43 and 44) may be earned through the College Level Examination Program (CLEP) subject examination in General Chemistry.
ECONOMICS

STAFF: Associate Professor Bernard (Chairman); Assistant Professors Henderson, C. Lee, and Nielsen

This is a department of the College of Business Administration. Students enrolled in the College of Arts and Sciences may, however, take a major or a minor in economics and may count any courses taken in this department towards a degree offered by the College of Arts and Sciences.

For a student majoring in economics the restriction on page 73 does not apply to certain credits earned in general administration. In other respects a major in economics is subject to the restrictions which apply to all students in the College of Arts and Sciences (See page 72 “Restrictions on the Use of Credits”).

Major. A minimum of 33 credits in economics. Courses must include Economics 71, 72, 88 or 89, 186, 187, and one from among 177, 178, or 189. In addition to 33 credits in economics, Mathematics 36 and Administrative Sciences 22 (or Mathematics 54) are also required.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 18 credits in economics constitutes a minor. Economics 71, 72, and Administrative Sciences 22 must be included.

Approval of Schedules. All students taking a major or a minor in the department must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate and Graduate Credit.


88. Econometrics. Sem. 2. Cr. 3. The application of mathematical and statistical techniques to the analysis of economic problems. This includes the study of nonparametric statistical tests, single and multiple regression models and computer applications. Prerequisites: Economics 71 and 72, Mathematics 36, and Administrative Sciences 22 or equivalent.

89. Mathematics for Economists. Sem. 1. Cr. 3. A course which considers economic problems of a mathematical type along with the necessary mathematical analysis. Not open to students with more than a year of calculus. Prerequisites: Mathematics 36 and Economics 71 and 72.


173. Comparative Economic Systems. Sem. 1. Cr. 3. A comparative analysis of political theories and the economic systems that derive from those theories. The course will focus on those ideological assumptions that result in capitalism, socialism, fascism, anarchism, etc., as the solution to economic problems. May be used to fulfill the General Studies Requirement. Prerequisites: Economics 71 and 72.

174. Public Finance. Sem. 2. Cr. 3. An analysis of the role of the public sector in a market economy. Public revenues and expenditures, fiscal administration, and taxation are considered as they relate to economic activity. Prerequisites: Economics 71 and 72.

176. International Economics. Sem. 2. Cr. 3. A study of the theory underlying the mechanics of financing international trade, the deviations from and the restoration of equilibrium and the problems associated with foreign investment and indebtedness. Prerequisites: Economics 71 and 72.

177. Modern European Economic History. Sem. 2. Cr. 3. A history of the economic development of Western Europe from 1750 to the present. Emphasis is placed on the role of the industrial revolution and its impact on the modern person. Prerequisites: Economics 71 and 72.

178 (278). Economic History of the United States. Sem. 1. Cr. 3. The history of the economic development of the United States from the colonial period to the present. Prerequisites: Economics 71 and 72.

181. Economics of Developing Nations. Sem. 1. Cr. 3. An analysis of economic variables, both theoretical and institutional, which characterize developing nations. Emphasis is placed on cyclical poverty, allocation of resources and policy planning. Prerequisites: Economics 71 and 72.

182. Urban Economic Problems. Sem. 2. Cr. 3. An examination of the regional and spatial characteristics of cities with an emphasis on policies to correct urban problems. Transportation, housing, poverty, and discrimination plus other substantive urban problems will be analyzed and discussed. Prerequisites: Economics 71 and 72.

183. Economics of Labor. Sem. 1. Cr. 3. The approach of workers and employers to the problems of labor; the development of trade unions and collective government regulation of labor relationships; and an economic analysis of wage-employment problems. Prerequisites: Economics 71 and 72.

*185. Money and Banking. Sem. 1. Cr. 3. A study of the institutions, principles and problems of money and banking in the U.S. Special attention is given to the basic elements of monetary theory and policies. Prerequisites: Economics 71 and 72.

186 (286). Intermediate Micro-Economic Theory. Sem. 1. Cr. 3. A study of the theoretical concepts and analytical techniques which economists employ to interpret the process of resource allocation under various systems of economic organization. Prerequisites: Economics 71 and 72.


188. Monetary Theory and Policy. Sem. 2. Cr. 3. An examination of monetary theories and their impact on aggregate economic behavior. Prerequisite: Economics 185.

189 (289). The History of Economic Thought. Sem. 1. Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisites: Economics 71 and 72.

198. Independent Study in Economics. Each sem. Cr. 1-3. Independent study to be approved by the chairperson and advising economics professor.

199 (299). Problems in Economics. Each sem. Cr. 3. A course in which a special topic in economics will be given intensive study. The topic will vary from year to year. Prerequisites: Economics 71 and 72. Recommended for senior or graduate students.

*Credit for Economics 185 may be earned through the College Level Examination Program (CLEP) subject examination in Introduction to Economics.
EDUCATION

STAFF: Professor Speckhard (Chairman); Professors Hillie and Kochendorfer; Associate Professors Stiemke and Swihart; Assistant Professors Anderson, Ballard, Link, Lucking, Reiser, and Ruosch

Accreditation. Valparaiso University is accredited by the National Council for Accreditation of Teacher Education to prepare elementary and secondary teachers on the undergraduate level. It is a member of the American Association of Colleges for Teacher Education. It is accredited on the undergraduate and graduate levels by the State Board of Education of Indiana as a teacher education institution to meet certification requirements.

Certification. For the purposes of the Teacher-Education Program and supervised teaching, the regulations apply which are in force at the time the student is approved for admission to the Teacher-Education Program. All students who expect to teach and have not been admitted to the Teacher-Education Program should consult with the Pre-education Adviser of this department as early as possible to ascertain that certification requirements will be met.

The mere completion of the prescribed courses outlined in the Department of Education does not guarantee that the student will be recommended for certification or a teaching position.

A student holding a bachelor's degree and interested in qualifying for certification should consult with the chairperson of the department.

Major. Only students preparing to meet elementary education certification requirements may major in education.

Minor. Only students preparing to meet secondary certification requirements may minor in education. University degree requirements call for a major outside of the field of education; normally this academic major will be in the teaching major field.

Approval of Schedules. All students preparing to teach must have their schedules approved by the Co-ordinator of Secondary Education or by the Co-ordinator of Elementary Education at the beginning of each semester. Approval of the chairperson of the department is also required for admission to courses numbered above 110.

All professional courses in educational methods listed by other departments in the College of Arts and Sciences are given under the supervision of the Department of Education.

Elementary Education. Undergraduate students who wish to teach in an elementary school should complete the requirements for a Bachelor of Science in Education, a special curriculum in the College of Arts and Sciences. The completion of the requirements for this degree does not in itself qualify a student for a teacher's certificate or license in any given state.

A candidate for the degree of Bachelor of Science in Education must meet all the requirements of the University listed under "Graduation" on page 65 of this bulletin. Course work must include the following as a minimum:

1. Religion: 9 semester hours.

2. Language Arts: 16 semester hours. Must include six credits in written expression, a course in speech, and a course in children's literature.

3. Science: 12 semester hours. Must include work in at least two of the following areas: biology, chemistry, physical geography, physics.

4. Social Studies: 12 semester hours. Must include a course in U.S. History and a course in world civilization and at least six credits from at least two of the following areas: economics, geography, political science, sociology.

5. Mathematics: 9 semester hours. Must include mathematics course work specifically designed for elementary teachers.

6. Arts: 6 semester hours. Must include one course in music and one in art.

7. General Studies: 3 semester hours. Must include one upper-class general studies course.

8. Other Subjects: 8 semester hours. Must include general psychology, physical education, and learning exceptionalities.

9. Education: 36 semester hours. Must include an introductory course in education, psychological foundations of education, methods in elementary education including six hours of reading, and 12 semester credits of student teaching.

10. Electives: In addition to the above requirements the student must present sufficient electives to achieve the 124 semester credits required for graduation.

Endorsements for teaching the Special Education and Special Subjects may be completed through special programs with requirements in addition to the above. Specific requirements should be obtained from the Department of Education.

Freshman students will be advised by the Pre-education Adviser. A recommended course program is:

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
</tr>
<tr>
<td>History</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
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</table>

Second Semester

<table>
<thead>
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<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>Religion</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
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<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Foreign language may be started in the freshman year for those who wish to concentrate in this area.

Sophomore students will be advised by the Pre-education Adviser. They should complete Foundations of Education during this year. Application for admission to the Teacher-Education Program should be made during the second semester of the sophomore year.

Junior students who are admitted to the Teacher-Education Program will be advised by the Co-ordinator of Elementary Education. Application for admission to supervised teaching must be filed by March 15.

Secondary Education.

Advising. Prior to admission to the Teacher-Education Program, secondary teacher candidates are asked to consult with the Pre-education Adviser of the Department of Education concerning programs leading to recommenda-
tion for teacher certification. Once formally admitted to the Teacher-Education Program, the student should consult periodically with the Co-ordinator of Secondary Education concerning his/her program.

Requirements. Undergraduate students preparing to teach in the secondary schools should complete requirements for appropriate degree in their majors.

General Education certification requirements for all secondary teacher candidates, regardless of the degree sought, are given below:

Students must ascertain that they are meeting these General Education requirements as well as the University degree requirements.

I. Humanities—22 semester credits
   - Speech .................................................. 3 credits
   - English .............................................. 10 credits
     (including 6 credits of written composition)
   - Foreign Language or Fine Arts .......... 6 credits
   - Religion ............................................ 3-9 credits

II. Life and Physical Sciences—8 semester credits
   The 8 credits are to be selected from at least two of the following areas: biology, chemistry, mathematics, physical geography, and physics.

III. Social and Behavioral Sciences—9 semester credits
   The 9 credits are to be selected from at least three of the following areas and must include general psychology: economics, geography, history, political science, psychology, and sociology. (Since some states require all teachers to have a course in United States history, it is recommended that prospective teachers take at least one such course.)

IV. Credits from categories II and/or III—3 semester credits

Professional Education requirements include:

1. Foundations of Education (Education 62)—3 credits.
   (Preferably taken in the sophomore year)

2. Formal application and admission to the Teacher-Education Program in the first month of the Spring Semester of the sophomore year (see below).

3. Orientation to Secondary Teaching (Education 105)—3 credits. (Preferably taken in the junior year.)

4. Formal application and admission to the Professional Semester before March 15 of the year prior to the academic year in which the Professional Semester is to be taken.

5. Completion of the Professional Semester. Courses included in the Professional Semester are:
   - Ed 156 Psychological Foundations of Secondary Education ...... 4 credits
   - Ed 155 Secondary Teaching: Principles and Methods ............ 4 credits
   - Ed 191 Special Methods .................................. 2 credits
   - Ed 157 Supervised Teaching in the Secondary-School Subjects .... 7 credits

Teaching Major and Teaching Minor Requirements:

1. A teaching major, or all-grade major, is required of all secondary teacher candidates. A teaching minor or a junior high/middle school certificate is highly recommended. (Students are strongly urged to take or audit the Special Methods course in a teaching minor or a second teaching major.)

Credits earned by passing examinations and noted on transcripts may be used to meet certification requirements.

2. Specific requirements for teaching majors and minors may be obtained from the Pre-education Adviser, the Co-ordinator of Secondary Education, or the major adviser.

Admission to the Teacher-Education Program. To be admitted to this program, a student must submit a written application to the Department of Education. This application should be made in the first month of the Spring Semester of the sophomore year. Applications are accepted only in January and September.

The Teacher Education Committee of the College of Arts and Sciences will take action on the application upon the recommendation of the Department of Education. The action taken (acceptance, conditional acceptance, or denial) will be based on the following criteria:

1. grade-point average—normally an applicant must have established a 2.25 g.p.a. in all course work taken at Valparaiso University (a minimum of 12 semester credit hours must be used in establishing this average), and must have established a 2.00 g.p.a. in all course work taken in the Department of Education. Post-baccalaureate students must establish a 2.75 g.p.a. in all course work (12 hours minimum) taken at Valparaiso University subsequent to earning the bachelor’s degree.

2. communication skills—an applicant must have obtained a grade-point average of 2.00 or better in all course work at Valparaiso University used to meet the nine-semester hour General Education requirement in oral and written expression.

3. health—an applicant shall be free of serious mental or physical health problems that might impair future teaching effectiveness.

4. character—an applicant must have shown the social and emotional maturity, moral character, responsibility, and dependability necessary for success in the teaching profession.

5. speech and hearing test—an applicant must complete a speech and hearing screening examination.

6. faculty recommendations—positive recommendations from two faculty members must be obtained by each applicant. One of these must be obtained from the Foundations of Education instructor. Secondary education applicants must obtain the second recommendation from the major adviser.

When applicants are noted as questionable on any of these criteria, they may be asked to meet with a subcommittee of the Teacher Education Committee before final action is taken.

Admission To Program For Special Education Endorsement. Application for admission to this undergraduate program in the area of learning disabilities must be made during the sophomore year and returned to the Education Department before March 30 of that year. This application is in addition to
the one required by the Teacher Education Committee of the College of Arts and Sciences for admission to the teacher education program.

Enrollments are restricted to a limited number of junior level students each year. The criteria for admission include a 2.25 cumulative grade-point average, successful experience with exceptional children (paid or volunteer), a minimum of three letters of recommendation (one from a former employer or supervisor who knows a candidate's work with children and two from professors who know the candidate's academic work), and an interview with a faculty admissions committee.

**Professional Semester.** This semester is required of all candidates who wish to be recommended for an initial teaching certificate. This semester includes the methods, principles, and student teaching courses required to meet standards for certification. During this semester the student should enroll only in courses approved for the Professional Semester.

**Admission to the Professional Semester.** Preliminary application (including Supervised Teaching) must be filed and completed in person with the Co-ordinator of Elementary Education or the Co-ordinator of Secondary Education by March 15 of the Spring Semester prior to the academic year in which the student teaching is to be done. To be eligible for supervised teaching, the student:

1. must have been admitted officially to the Teacher-Education Program.
2. must have maintained a satisfactory grade-point average since his/her admission to the Teaching-Education Program and established a 2.00 g.p.a. in all teaching fields.
3. must have completed at least 12 credit hours in Valparaiso University of which 3 credit hours must be in education.
4. must have senior standing and be within two semesters and one summer of graduation.
5. must have shown the social and emotional maturity, moral character, the responsibility, and the dependability necessary for success in the teaching profession.
6. Secondary student teaching candidates must have completed General Psychology (Psychology 51 or 52), earned at least a 2.00 in Education 105, and received written recommendation to take the Professional Semester from the major adviser. If a teaching minor is to be obtained, written recommendation from the chairperson of the department of the minor must be received. (Students are strongly urged to take or audit the Special Methods course in the teaching minor area.)
7. Elementary student teaching candidates must have earned at least a 2.00 grade-point average in all course work in Education.

**Placement of Student Teachers.** The placement and the direction of supervised teaching experiences are the responsibilities of the Co-ordinator of School Field Experience. Approved elementary and secondary student teachers will be assigned to selected schools in Northwest Indiana.

**Placement.** The Teacher Placement Office gives assistance to beginning and experienced teacher candidates who have completed requirements for certification. All candidates must file their credentials with this office prior to graduation.

Students who complete their undergraduate training at Valparaiso University are entitled to use of the Teacher Placement services at no cost to the student until the end of the Teacher Placement year which comes after graduation or the completion of the professional semester, whichever comes last. (The teacher placement year is from October 1 to September 30.)

A ten dollar fee will be charged each teacher candidate who wishes to use the Teacher Placement service after the expiration of free service time. This will reinstate the student till the end of the then current teacher placement year. This fee will be waived for those students completing Valparaiso University's teacher training program who have not received an offer of an initial teaching position since completion of their program.

**Undergraduate and Graduate Credit.**

Note: No undergraduate student will be admitted to any courses beyond Education 110 unless he/she has completed Education 62, has been admitted to the Teacher-Education Program, and has achieved at least junior standing.

62. Foundations of Education. Cr. 3. A study of the historical, sociological, and philosophical foundations of American education, development of our educational system, relationship of schools and society, and current issues and trends in education. Field activities are part of this course. Course fee, $10.00.
96. Educational Psychology. Cr. 3. This course applies the principles of psychology and the results of experimental research to the problems of teaching and learning. Prerequisite: Psychology 51 or 52. (Not open to majors or minors in education.)
105. Orientation to Secondary Teaching. 2-3, Cr. 3. A course designed to provide the prospective secondary or middle school teacher with the basic rationale and supportive field experiences necessary for an intelligent decision about teaching as a career. The course will include materials dealing with the logical and strategic acts of teaching, the political and institutional aspects of school management, the principles of curriculum development, current issues and trends in secondary and middle school education, and teaching at these levels as a career. The field experiences consist of a minimum of forty hours of practical involvement in selected activities in a senior high, junior high, or middle school. Prerequisites: Education 62, application for admission to Teacher Education, and advanced course selection. Fee, $25.00.
115. Principles and Methods of Elementary Education. Cr. 9. Study of the organization of instruction, classroom management, and skills of teaching in the elementary school. Includes principles, content, curriculum, methods, and techniques involved in teaching reading and science in the elementary school. Involves directed classroom observation and teaching in a micro setting. Normally taken in the junior year.
116. Psychological Foundations of Elementary Education. Cr. 4. The course provides a basis in psychological research and theory to aid teachers in guiding the learning and development of children. Prerequisites: Psychology 51 or 52. (To be taken concurrently with Education 115.)
120 (220). Kindergarten Education. Cr. 3. This course deals with the curriculum, the teaching techniques and the materials used in the nursery school and kindergarten. Special emphasis will be given to the education needs of the preschool child. Prerequisites: junior standing and Psychology 51 or 52.
155. Secondary Teaching: Principles and Methods. Cr. 4. A study of the principles, methods, techniques and materials involved in teaching in the secondary and middle schools; a basic introductory course to teaching. This course is restricted to students enrolled in the Professional Semester in Secondary Education.
156. Psychological Foundations of Secondary Education. Cr. 4. The course provides a basis in psychological research and theory to aid teachers in guiding the learning and development of children and adolescents. This course is restricted to students enrolled in the Professional Semester in Secondary Education. Prerequisite: Psychology 51 or 52.
157. Supervised Teaching in the Secondary-School Subjects. Cr. 7. Each student will be assigned to a secondary school for laboratory experiences, which will include at least 8 weeks of full-time classroom observation, classroom teaching, and related activities. Prerequisites:
senior standing and concurrent enrollment in the Professional Semester. See special paragraph on Supervised Teaching in the general statement above for conditions of eligibility. Students enrolled in this course may not carry a load of more than 17 credit hours. S/U grade. Fee, $70.00.

185. Elementary Methods and Techniques of Teaching. Cr. 8. The student is expected to give full time for approximately eight weeks of the Professional Semester to a study of the development and organization of the elementary school; including principles, content, curriculum, and techniques involved in teaching the language arts, reading, mathematics, and the social studies. This course is restricted to students enrolled in the Professional Semester in elementary education.

186. Supervised Teaching in the Elementary Grades. Cr. 8. This course gives the student opportunities for observation, actual classroom teaching, and participation in related activities in elementary schools under the directions of the supervising teacher and the University supervisor. Students are expected to give full time for this course for approximately eight weeks of the semester. Prerequisite: senior standing. See special paragraph on Supervised Teaching under the general statement above for conditions of eligibility. Students enrolled in this course may not carry a maximum of more than 17 credit hours. S/U grade. Fee, $70.00.

170 (270). Mathematics in the Elementary School. Cr. 3. Psychological and instructional aspects of arithmetic, elementary algebra, and geometry, including new methods of teaching based on recent scientific studies; diagnostic and corrective measures. Prerequisite (for undergraduates only): basic course in mathematics methods.

171 (271). Science in the Elementary School. 2-1-2, Cr. 3. Analysis of curriculum and instruction in elementary science; methods of presentation, problems, trends, research findings, and instructional resources. Demonstrations and appropriate experiments for elementary schools. Prerequisite (for undergraduates only): basic course in science methods.

172 (272). Language Arts in the Elementary School. Cr. 3. An advanced study of the elementary school language arts curriculum considering content and skill requirements as evidenced in present practice and current theory. Prerequisite (for undergraduates only): basic course in language arts methods.


174 (274). Reading in the Content Areas. Cr. 3. Lectures and demonstrations cover the reading process as it is involved in the various content areas of junior high, middle school, and secondary school curricula. Specific techniques for developing competencies in diagnosis of reading difficulties and in instruction in reading in the content areas are given emphasis.

175 (275). Reading in the Elementary School. 1-1-2, Cr. 2. An introductory course in the teaching of reading including a study of the nature of the reading process, the reading curriculum, and principles, methods, and materials used for the development of effective reading. Prerequisite (for undergraduates only): basic course in instructional methods.

176 (276). Foundations of Reading. Cr. 3. A course of lectures and demonstrations which cover the reading process, appraisal of reading needs, directed reading activities and reading skill development. Prerequisite: basic course in the teaching of reading.

177 (277). The Elementary School Curriculum. Cr. 3. A study of the composition of today's elementary curriculum, the factors which affect its development, the principles governing curriculum organization, and current curriculum patterns.

180 (280). Introduction to Educational Media. 2-1-2, Cr. 3. An introduction into the ways of effective selection and utilization of media, both material and equipment. The course includes laboratory experience in the production and equipment operation in different media. Fee, $10.00.

182 (282). Educational Measurement. Cr. 3. A course dealing with theory of measurement, interpretation of measurement data, and testing in relation to pupil achievement and guidance.

185 (285). The Junior High/Middle School. Cr. 3. A study of the development, organization, and curriculum of junior high and middle schools with emphasis on the unique societal and educational roles played by these institutions.
317. Research in Education. Cr. 3. A course designed to develop skill in reading, interpreting, and evaluating research in education. Particular emphasis will be given to research findings in educational areas of interest to students. Prerequisite: 15 hours in education or consent of the instructor.

320. Historical Foundations of Education. Cr. 3. The history of American education in its cultural framework. Special attention will be given the reform movements of the 20th Century.

323. Research in Reading. Cr. 3. A review of basic research in reading as applied to principles of learning, instructional processes, and curricular organization. Prerequisites: Education 276 or equivalent and a course in statistics or measurement.

326. Diagnosis of Reading Difficulties. Cr. 3. Theory and techniques of testing and evaluation in reading; analysis and interpretation in several areas including physical capacity, mental ability, emotional adjustment, and academic achievement. Prerequisite: Education 276 or equivalent.

329. Clinical Practicum in Reading. Cr. 3. Guided experience in clinical practice in reading instruction with emphasis on specific remedial theory and techniques. Prerequisite: Education 326 or the equivalent.

330. Seminar in Educational Research. Cr. 3. Analysis of procedure and methods of research in education. Emphasis on student-initiated investigation into a selected educational field. Prerequisite: consent of the instructor.

335. Current Educational Thought. Cr. 3. A course designed to familiarize the student with current problems and innovations in the field of education. Extensive reading and discussion of selected essays, articles, and books dealing with issues in education are required. Prerequisite: consent of the instructor.

338. (Formerly 328.) The Supervision of Student Teachers. Cr. 3. A course dealing with the problems of supervising student teaching at the elementary and secondary levels. The historical development of student teaching, current student-teaching programs, and the problems related to the supervision of student teachers in the classroom and the school will be studied. Prerequisites: teaching experience and consent of the instructor.

340. Seminar in Education. Cr. 3. An intensive study of a significant topic in education. Subtitles and course content will depend on instructor's choice and student interest. This course may be repeated for credit if the topics are different.

ENGLISH

STAFF: Professor Arlin Meyer (Chairman); Professors Phipps, Risley, Umbach, and Wegman; Associate Professors Cunningham, Feaster, and Prati; Assistant Professors Erdos1, Hall, Loep­p­ert, Mullen, Sommer, Sponberg1, and Uehling; Miss Campbell; Visiting Instructor Murrian

Major. A minimum of 24 credits in courses numbered 100 or above. Must include courses 100 and 150. In addition, each student shall complete at least one course or one semester in English 187.

It should be noted that 24 hours constitutes a minimum academic major. We encourage students to proceed well beyond the minimum major to attain a balanced view of both British and American literature, including ample study of literature before 1800. No later than the first semester of the junior year, each student shall submit a proposed plan of study to the chairperson of the department.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 12 credits in English in courses numbered 100 or above constitutes a minor. Courses must include 100 or 150.

Plan of Study Option. The English Department now has model Plans in several areas, including: English/Journalism; American Studies; English/Political Science/History (Pre-Law); English/Foreign Languages; English/Speech and Drama; English/Science (Pre-Med); English/Psychology; and English/Philosophy/History.

Approval of Schedules. All students taking a major or a minor in the department must have their schedules approved by the chairperson of the department at the beginning of each semester. Consult English Department Bulletin or Advanced Course Selection bulletin to determine when any course will be offered.

Undergraduate and Graduate Credit.

3. Fundamentals of Composition I. Cr. 2. Intended to develop the student's skills in sentence and paragraph construction, and in the basics of English usage and punctuation, this course relies heavily on carefully reviewed writing assignments and individual tutorial sessions. It is to be followed by:

4. Fundamentals of Composition II. Cr. 2. Intended as a sequel to English 3, and should be taken in the semester following. The emphasis in English 4 is on coherent organization of themes of varying length, with attention to rhetorical and argumentative strategies, critical reading, research methods, and the preparation of term papers.

5. Exposition and Argument. Cr. 4. An intensive course in the writing of expository and argumentative prose with emphasis upon coherent organization, the logical progression of thought, and the effective use of language.

25. Literary Studies. Cr. 4. Readings of poems, plays, and fictional works from various periods, with emphasis upon the understanding and enjoyment of literature gained through close critical analysis. Additional experience in writing complements that of English 5. Prerequisite: English 5 or 3-4.

1 Disability Leave, Academic Year 1977-1978.
3 Credit for English 25 may be earned through the College Level Examination Program (CLEP) subject examination in Analysis and Interpretation of Literature.
INTERMEDIATE COURSES: Prerequisites are English 5 (or 3-4) and 25.

57. Business Communication. Cr. 3. A detailed study of business communication. Includes analysis and practice in a variety of messages used to communicate in business and industry. Emphasizes the fundamentals of appearance, style and language, tone and psychology of effective business communication.

65. Studies in Contemporary Literature. Cr. 3. (intended to satisfy the Literature or Fine Arts Requirement of the General Education section, but may also be taken for elective credit.) Examples of special topics in recent British, American, European, or non-Western literature. Examples of special topics which have been prepared are: (1) The Minority Voice in Contemporary American Literature; (2) Southern Letters: 1829 to the Present; and (3) The American Novel Since World War II.

75. Composition for Teachers. Cr. 2. (half course). A course designed for future teachers emphasizing the practical skills and art of writing and examining methods of teaching and evaluating writing.

ADVANCED COURSES: Prerequisites are English 5 (or 3-4) and 25. Courses labeled 200 and above are open to qualified graduate students; undergraduates enroll in the dual-numbered courses on the "100" level.

100 (200). Methods of Literary Criticism and Research. Cr. 3. Designed to give students practical experience in the theories and methods of modern literary scholarship and criticism. The course aims to acquaint students with the presuppositions about literature which underlie critical writing and thus to provide standards for evaluating critical and scholarly works. It also provides intensive training in the analysis of literary texts. Required for English majors.

101. American Literature. Cr. 3. A study of selected works of major American writers from the Colonial Period to the Civil War.

102. American Literature. Cr. 3. A study of selected works of major American writers from the Civil War to the present day.

103. Major British Writers. Cr. 3. A study of selected works of the chief British writers from Anglo-Saxon times to the end of the Neoclassical Period.

104. Major British Writers. Cr. 3. A study of selected works of the chief British writers from the beginning of the Romantic Movement to the present day.

105. Masterpieces of World Literature. Cr. 3. A study of major literary works of the Greek, Roman, and Christian traditions, from ancient times through the Renaissance.

106. Masterpieces of World Literature. Cr. 3. A study of major works of Europe and America from the Neoclassical Period to the present day.

109 (209). Medieval Studies. Cr. 3. A study of medieval lyrics, narratives, and romances, with lectures on medieval social and intellectual backgrounds. In alternate semesters, this course will deal solely with the work of Chaucer.


120 (220). Renaissance and Seventeenth Century Studies. Cr. 3. Readings in significant works of selected writers ranging from More to Milton, with attention to the intellectual, religious, and political backgrounds of the Renaissance and earlier seventeenth century.

122. Creative Writing. Cr. 3. A workshop in the various techniques of writing poetry and short fiction. Emphasis will be given to the individual student's development of his writing skills. Prerequisite: English majors, as well as other students, may take this course on an S/U basis.

130 (230). Restoration and Eighteenth Century Studies. Cr. 3. An intensive study of several major writers and dominant literary types in England from 1660 to 1780, with attention to the historical and cultural backgrounds of the period.

131. Advanced Composition. Cr. 3. Advanced study of the writing of various kinds of English prose, not including fiction. Considerable writing practice is given, the goal being to develop a lucid, effective style.

*All courses designated by asterisk (*) may vary in content and in writers assigned, depending upon the instructor and year given. Such courses may be taken twice for credit, provided topic is new, or there is no significant overlapping in the reading lists.
187. Seminar in English.* Cr. 3. Designed chiefly for juniors and seniors interested in active participation, the seminar encourages independent thought and research, and relies upon free discussion rather than lectures. Some recent topics: The Aesthetic Movement from Poe to Yeats and Mann; Satire; Contemporary British Novelists; Anglo-Irish literature. Enrollment limited to 15 students. Required for English majors.

191. The Teaching of English. Cr. 2. A study of the methods of teaching English in secondary school (See Education 191). Prerequisite: admission to supervised teaching. This course may not be counted toward a major or minor in English.

194. Independent Study in English. Cr. 3. Designed to provide advanced students an opportunity to do serious research on a topic which is not covered in any regularly scheduled course offered by the English Department. In advance of the semester in which the student plans to undertake his project, he must arrange for a tutor to direct that project and secure approval for it from the English Department Committee on Honors and Independent Study.

195 (295). Topics in Literature.* Cr. 2 (half course) -3. An open-topic course, which may concern a single writer or a group of writers; a literary type or theme; a contemporary art form (e.g., development of the cinema); or an aspect of modern popular culture (e.g., science fiction and fantasy).

197. Honors Work in English. Cr. 3. See this catalog, p. 86, for current regulations regarding honors work. For other types of independent reading and research, consult with the chairman of the Department of English.

Graduate Credit.

303. Seminar in Literature for Children. Cr. 3. A study of the great children's literature of the past and the present, of the values that that literature holds for children, and of the criticism of that literature with the aim of developing a set of critical standards for the evaluation of books for children. A study of criteria for selecting books for school use. This course includes a scrutiny of representative scholarship as well as the handling of many bibliographical tools.

309. Theory and Practice of Expository Writing. Cr. 3. Readings and lectures in the theory of exposition; practice in analyzing essays and in writing various forms of exposition; study of the principles of teaching expository writing.

310. Studies in Nineteenth Century British Literature.* Cr. 3. Selected writers from the Romantic and/or Victorian Periods are read in considerable depth, from a special critical, historical or cultural viewpoint.

315. Shakespeare and His Contemporaries.* Cr. 3. A concentrated study of a selection of works by Shakespeare (or by Shakespeare and some of his contemporaries), to reveal both his debts to and his transcendence above the literary, intellectual, and social conventions of his day. The emphasis is largely, though not exclusively, on dramatic literature.

320. Studies in Nineteenth Century American Literature.* Cr. 3. A study of several important American writers of the nineteenth century, selected on the basis of theme, genre, or relation to a particular literary movement or intellectual background.

325. The Western Tradition I. (Also offered as History 325). Cr. 2. A study of some of the important aspects of the heritage that has come down to us from the Middle Ages, the Renaissance, and the Reformation. This course will be devoted, for the most part, to a close reading of important selected texts.

326. The Western Tradition II. (Also offered as History 326). Cr. 2. A study of some of the more important aspects of the heritage that has come down to us from the ancient Greek, Roman, and Judeo-Christian cultures. This course will be devoted, for the most part, to a close reading of important selected texts.

335. Studies in Modern Literature.* Cr. 3. Topic is open, and determined chiefly by expressions of student interest. Thorough investigation of a significant theme, intellectual or cultural trend, school of writers within the past hundred years, Recent topics include Visionary and Philosophical Literature (Yeats, Lawrence, Eliot, Mann, Kafka; The Existential Novel; The Southern Renascence).

*All courses designated by an asterisk (*) may vary in content and in writers assigned, depending upon the instructor and year given. Such courses may be taken twice for credit, provided topic is new, or there is no significant overlapping in the reading lists.

FOREIGN LANGUAGES

STAFF: Professor Heims (Chairman); Professors Falkenstein, Moulton, Must, and H. Peters; Associate Professors Borel, Crempacker, J. Peters, and Petersen; Assistant Professors S. Baeppler, Kump, Toledo-Smith, and Stephan; Mr. Gomez and Mrs. Johnson; Mr. Olsen, Director of Language Laboratory.

The Department has the following objectives: to give the student in the lower division courses, numbered 10, 20, and 30, a sound grammatical foundation and to develop the ability to read moderately difficult prose and poetry. It also aims to provide the student with a basic speaking ability, aural comprehension, and an introduction to a foreign culture.

Courses numbered 50 or 51 are designed for the Literature or Fine Arts Requirement. Courses numbered 100 are designed for the General Studies Requirement. All of these courses are taught in English.

In the upper division courses, numbered above 100, the objectives are to continue the work begun in the lower division courses, by becoming proficient in the speaking and writing of the languages offered, to study their literatures and civilizations, and to prepare students for the teaching of foreign languages and for graduate studies.

Credit By Examination. College credit by examination may be achieved for courses numbered 20 and/or 30 by any student, provided that he/she has not otherwise earned that credit.

The examination will be given by each section of the Department at the beginning of each semester and during the Summer Session upon sufficient demand.

Concentration Areas. It is recommended that all students study at least one other language and that they take a variety of electives in Art, Economics, English, Geography, History, Mathematics and/or Statistics, Music, Philosophy, Political Science, Psychology, Sociology, or Speech and Drama.

Those wishing to teach must submit a course of study in writing to the chairperson of the department.

Approval of Schedules. All students taking a major or a minor in the department and all students planning to teach must have their schedules approved by the chairperson of the department at the beginning of each semester.

FRENCH

Major. A minimum of 20 credits in French beyond French 30. (For the plan of study option, a student will be expected to take at least 24 credits in French beyond French 30.)

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 10 credits beyond French 30 constitutes a minor in French.

1Leave of Absence, Academic Year 1977-1978.
Undergraduate and Graduate Credit.

10. First Semester French. Cr. 4. A course designed to give the student the essentials of French. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in French.

20. Second Semester French. Cr. 4. A continuation of French 10. Prerequisite: French 10 or consent of the chairperson of the department. Laboratory fee, $5.00.


50. Topics in French Literature. Cr. 3. A course to meet the Literature or Fine Arts Requirement. Study of a selected form or aspect of French literature in English translation. No knowledge of French required. May not be counted toward a major or minor in French.

100. Studies in French Civilization. Cr. 3. A course to meet the General Studies Requirement. Study of the arts, history, literature, music, and philosophy of selected periods or aspects of French civilization. Prerequisite: French 20 or consent of the chairperson of the department. Course fee, $5.00.

110. French Idioms and Practical Vocabulary. Course fee, $5.00.

111. French Foundations of Composition and Conversation. Cr. 2. Written composition and continued emphasis on conversational skills. Course fee, $3.00.

112. Advanced French Composition and Conversation. Cr. 4. A continuation of French 111. Additional work in developing conversational and written skills. Prerequisite: French 111. Course fee, $5.00.

114. Contemporary French Language and Communications. Cr. 2-4. The contemporary French language as used in everyday radio broadcasts, newspaper articles, magazines, and other popular publications. Prerequisite: French 111. Course fee, $5.00.

115. Formerly 113.) French Phonetics. Cr. 3. A study of the principles of French phonetics with special emphasis upon the difficulties encountered by American students. Much practical training in the laboratory. Laboratory fee, $5.00.

116. Professional French. Cr. 2. A study of the French language as it is used in the international business world, including writing of business letters and general commercial terminology. Prerequisite: French 111. Course fee, $5.00.

120. (Formerly 116.) Masterpieces through the Centuries. Cr. 3-4. Rapid reading of a few representative works with supplementary lectures and extracts designed to give a broad survey of French literature.

130. (Formerly 115.) French Civilization. Cr. 3. Civilization of France from earliest times to the present. Course fee, $5.00.

160. (260.) (Formerly 125-225.) Seminar in French Literature. Cr. 2-4. Graduate credit 2-3. Intensive study of a French literary topic such as those listed below. Topic changes each semester so that this course may be repeated several times provided there is no duplication of material. Prerequisites: French 110 and 111, or consent of the chairperson of the department.

Contemporary Drama
Nineteenth Century Novel
French Lyric Poetry
Eighteenth Century Literature

190. Directed Reading in French. Cr. 1-4. Intended for students capable of doing independent study in French language and literature. Prerequisite: consent of the chairperson of the department.

191. The Teaching of Foreign Languages. Sem. 1. Cr. 2. (See Education 191). A study of the methods of teaching foreign languages in secondary schools. May not be counted toward a major or a minor in the Department of Foreign Languages. (Given upon sufficient demand.) Prerequisite: admission to Supervised Teaching.

GERMAN

Major. A minimum of 20 credits in German beyond German 30. Courses must include German 113, 120, and 130. (For the plan of study option a student will be expected to take at least 24 credits in German beyond German 30.) German courses 20 and 30 offer the student a choice of two methods: the first develops all skills equally, the second emphasizes the reading skill. The advanced German courses constitute a two-track approach: the first emphasizing language and civilization (Courses 110-116, 130), and the second emphasizing literature (remaining courses).

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 10 credits beyond German 30 constitutes a minor in German.

The Walther M. Miller Memorial Prize. See page 13 for details.

Undergraduate and Graduate Credit.

10. First Semester German. Cr. 4. A course designed to give the student the essentials of German. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in German.

20. Second Semester German. Cr. 4. A continuation of German 10 and reading of selected cultural and literary texts. Second Semester German is a special section for students who want to acquire a reading knowledge of German. Prerequisite: German 10 or consent of the chairperson of the department. Laboratory fee, $5.00.

30. Intermediate German. Cr. 4. Reading and discussion of German literature on the intermediate level; review of German grammar. Intermediate German is a special section for students who want to acquire a reading knowledge of German. Prerequisite: German 20 or consent of the chairperson of the department.

50. Topics in German Literature. Cr. 3. A course to meet the Literature or Fine Arts Requirement. Study of a selected form or aspect of German literature in English translation. No knowledge of German required. May not be counted toward a major or minor in German.

100. Studies in German Civilization. Cr. 3. A course to meet the General Studies Requirement. Study of the arts, history, literature, music, and philosophy of selected periods or aspects of German civilization. Prerequisite: junior standing. No knowledge of German required. May not be counted toward a major or minor in German.

110. Conversational German I. Cr. 2. Practice in speaking everyday German. Use of common idioms and practical vocabulary. Course fee, $3.00.

111. History of the German Language. Cr. 3. A course designed to give the student the essentials of German. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in German.

112. Written German. Cr. 2. Practice in writing everyday German. This course is also intended for non-majors who wish to increase their conversational fluency. Prerequisite: German 30. May be repeated for credit at Reutlingen Study Center only.

113. Advanced German. Cr. 2. A course intended primarily for students who plan to teach German, attend German universities, or to do graduate work in German. Writing, stylistics, and presentation of academic papers. Prerequisite: German 110 or 112.

114. Contemporary German Language and Culture. Cr. 4. The contemporary German language as used in radio broadcasts, newspaper articles, magazines, and other cultural sources from German-speaking countries. Prerequisite: German 111 or 112. Course fee, $5.00.

115. History of the German Language. Cr. 4. A survey of the development of the German language. Prerequisite: German 110 or 120.

116. Professional German. Cr. 2. A study of the German language primarily for participants in the Interdisciplinary Program in International Economics and Cultural Affairs. The course will be adjusted to the career needs of the individual class. Prerequisite: German 110 or 112. Course fee, $5.00.
120. Introduction to German Literature. Cr. 4. A genre approach to literature. Reading and discussion of at least one tragedy, one comedy, one Novelle, and selections from various types of poetry. Prerequisite: German 30.

125. The German Lyric. Cr. 2. A survey of German lyric verse from its beginning to modern times. Class reading, lectures, independent reading and phonograph recordings. Prerequisite: German 110 or 120.

126. The German Novelle. Cr. 2. Systematic and historical study of the Novelle. Class reading and discussion of representative Novelle; lectures, independent reading, and class reports. Prerequisite: German 110 or 120.

128. (Formerly 131.) The German Drama. Cr. 2. Development of the German Drama from its beginning to modern times. Reading of representative plays of each period, lectures, and discussion. Prerequisite: German 110 or 120.

130 (230). The German Lyric. Cr. 2. A continuation of Greek prose of moderate difficulty. Prerequisite: Greek 10 or equivalent. Credit may not be counted for graduation by a student with more than one year of high school credit in Greek.

160 (260). Studies in the History of German Literature. Cr. 3-4. Systematic and historical study of the Novelle; lectures, independent reading, and class reports. Prerequisite: German 110 or 120.

190. The Teaching of Foreign Languages. Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.

THE CLASSICS

Major. A minimum of 16 credits in Greek and 12 credits in Latin beyond Latin 30.

GREEK

Major. A minimum of 24 credits in Greek.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 16 credits in Greek constitutes a minor.

The Reverend and Mrs. Arthur L. Reinke Memorial Scholarship. See page 38 for details.

Undergraduate Credit.

10. First Semester Greek. Sem. 1. Cr. 4. An introduction to the study of the Greek language, stressing the features of Greek grammar that the student needs for the reading of easy Greek prose. Course fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in Greek.

20. Second Semester Greek. Sem. 2. Cr. 4. A continuation of Greek 10, followed by reading of Greek prose of moderate difficulty. Prerequisite: Greek 10 or equivalent. Course fee, $5.00.


LATIN

Major. A minimum of 20 credits in Latin beyond Latin 30.

Majors are expected to study at least one other foreign language. Recommended courses in other departments are: Art 101; English 110, 143; History 101, 102; Music 103; Philosophy 51; Speech and Drama 40.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 10 credits beyond Latin 30 constitutes a minor in Latin.

The Reverend and Mrs. Augustus Reinke Memorial Scholarship. See page 38 for details.
Undergraduate and Graduate Credit.

10. First Semester Latin. Sem. 1. Cr. 4. Study of the fundamentals aimed at an early acquisition of a reading knowledge of Latin. Course fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in Latin.

20. Second Semester Latin. Sem. 2. Cr. 4. A continuation of Latin 10, followed by study of easy selections from Latin prose authors. Prerequisite: Latin 10 or consent of instructor. Course fee, $5.00.

30. Intermediate Latin. Cr. 4. Introduction to Latin epic poetry; readings from the Aeneid of Vergil and the Metamorphoses of Ovid. Prerequisite: Latin 20 or consent of instructor. Course fee, $5.00.

50. Latin Classics in Translation. Cr. 3. A course to meet the Literature or Fine Arts Requirement. Latin literature from its earliest Republican beginnings through the Silver Age of the Roman Empire. Lectures and readings. No knowledge of Latin required. May not be counted toward a major or minor in Latin.

51. Classical Derivatives. Cr. 3. A course to meet the Literature or Fine Arts Requirement. Analysis of English vocabulary, including scientific terms, derived from Latin and Greek. No knowledge of Latin or Greek required. May not be counted toward a major or minor in Latin or Greek.

100. Studies in Roman Civilization. Cr. 3. A course to meet the General Studies Requirement. The cultural history of Rome from its legendary period through the Age of Justinian, with emphasis on the Roman contribution to the classical heritage. Slide lectures and discussions. No knowledge of Latin required. Prerequisite: junior standing. May not be counted toward a major or minor in Latin.

Note: Unless otherwise stated, the prerequisite for each of the following courses is Latin 30 or consent of the chairperson of the department:


116. Latin Lyric and Elegiac Poetry. Sem. 2. Cr. 2-4. Roman society in the last three centuries before the Republic and in the Augustan Age as reflected in Catullus, Horace, Tibullus, and Propertius.


120 (220). Survey of Latin Literature. I. Cr. 2-4. (Graduate Credit 2-3). Latin prose literature of the Roman Republic and Empire.

121 (221). Survey of Latin Literature. II. Cr. 2-4. (Graduate Credit 2-3). Latin poetry of the Roman Republic and Empire.


130. Medieval Latin. Sem. 2. Cr. 2-4. Readings in secular and religious prose and poetry extending from the early Middle Ages to the Renaissance.

190. Directed Reading in Latin. Each sem. Cr. 1-4. Intended for students capable of doing independent study in Latin language and literature. Scholarly paper required. Prerequisite: consent of the chairperson of the department.

191. The Teaching of Foreign Languages. Sem. 1. Cr. 2. (See French 191 and Education 191) Prerequisite: admission to Supervised Teaching.

RUSSIAN

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 10 credits beyond Russian 30 constitutes a minor in Russian.

Undergraduate Credit.

10. First Semester Russian. Sem. 1. Cr. 4. An introduction to Russian stressing elementary grammar, pronunciation, and reading of simple texts. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in Russian. Offered in alternate years.

20. Second Semester Russian. Sem. 2. Cr. 4. A continuation of Russian 10, with increased emphasis on reading and speaking. Prerequisite: Russian 10 or equivalent. Laboratory fee, $5.00. Offered in alternate years.

30. Intermediate Russian. Sem. 1. Cr. 4. An intermediate course in Russian, completing the basic grammar presentation, and reading of Russian and Soviet cultural material. Prerequisite: Russian 20 or equivalent. Offered in alternate years.

50. Topics in Russian Literature. Cr. 3. A course to meet the Literature or Fine Arts Requirement. Study of a selected form or aspect of Russian literature in English translation. No knowledge of Russian required. May not be counted toward a minor in Russian.

100. Studies in Russian Civilization. Cr. 3. A course to meet the General Studies Requirement. Survey of major trends and influences in Russia and the Soviet Union. Prerequisite: junior standing. No knowledge of Russian required. May not be counted toward a minor in Russian.

111. Russian Composition and Conversation. Cr. 4. Advanced study of Russian grammar. Written and oral reports. Conversation based on contemporary situations. Prerequisite: Russian 30 or equivalent.

112. Russian Composition and Conversation. Cr. 4. A continuation of Russian 111. Prerequisite: Russian 111 or equivalent.

153. Nineteenth-Century Russian Literature. Cr. 3. A study of nineteenth-century Russian literary trends through representative works of Pushkin, Lermontov, Gogol, Turgenev, and Dostoevsky. Prerequisite: Russian 30 or consent of instructor.

154. Late Russian and Early Soviet Literature. Cr. 3. A study of late nineteenth-century and early twentieth-century Russian and Soviet literary trends through representative works of Tolstoy, Chekhov, and Bunin, and of Gorky and Sholokhov. Prerequisite: Russian 30 or consent of instructor.

SPANISH

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 10 credits above Spanish 30 constitutes a minor in Spanish.

Undergraduate and Graduate Credit.

10. First Semester Spanish. Cr. 4. A course designed to give the student the essentials of Spanish. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in Spanish.
15. Refresher Course in First Semester Spanish. 7 weeks. Cr. 0. S/U grade.

20. Second Semester Spanish. Cr. 4. A continuation of Spanish 10 in which the student will learn to read simple to intermediate works, to carry on a simple conversation, and to write a coherent paragraph. Prerequisite: Spanish 10 or consent of the chairperson of the department. Laboratory fee, $5.00.

25. Refresher Course in Second Semester Spanish. 7 weeks. Cr. 0. S/U grade. If course is passed satisfactorily, student will receive credit for Spanish 20.

30. Intermediate Spanish. Cr. 4. A course in which the student will perfect grammar skills, deepen his understanding of Hispanic culture, and be expected to read uncomplicated works of literature, write compositions, and be able to sustain a general conversation. Prerequisite: Spanish 20 or consent of the chairperson of the department.

50. Topics in Hispanic Literature. Cr. 3. A course to meet the Literature or Fine Arts Requirement. Study of a selected form or aspect of Hispanic literature in English translation. No knowledge of Spanish required. May not be counted toward a major or minor in Spanish.

100. Studies in Hispanic Civilization. Cr. 3. A course to meet the General Studies Requirement. Study of the arts, history, literature, music, and philosophy of selected periods or aspects of Hispanic civilization. Prerequisite: junior standing. No knowledge of Spanish required. May not be counted toward a major or minor in Spanish.


114. Contemporary Hispanic Society Through Communications. Cr. 4. Utilization of newspapers, magazines, radio, television, and essay as a basis for conversation, composition, and grammar study. Prerequisite: Spanish 111. Course fee, $5.00.


118. The Spanish Language. Cr. 2-3. An introduction to the development and usage of the Spanish language through the study of linguistics, particularly phonetics and philology. Prerequisite: Spanish 111.

120. Selected Readings in Hispanic Literature. Each sem. Cr. 4. The reading and discussion of works of Hispanic literature representative of various literary genres, with emphasis on the techniques of literary criticism and the problems of analyzing literature in a second language. Prerequisite: Spanish 111.

130. Spanish Civilization. Cr. 3-4. A course intended to further the student's knowledge of the varied elements of Spanish history and culture. Lectures and individual oral participation in Spanish. Prerequisite: Spanish 111.

131. Spanish-American Civilization. Cr. 3-4. A course intended to further the student's knowledge of the varied elements of Spanish-American culture. Lectures and individual participation in Spanish. Prerequisite: Spanish 111.

Note: All literature courses listed below have as their prerequisite Spanish 120, and will offer varying area sub-topics under the general headings listed below. All literature courses are taught entirely in Spanish. Certain of these courses may be repeated provided there is no duplication of material.

160. Topics in Early Spanish Literature. Cr. 2-4. Selected areas of study concerning individual genres, authors, or aspects of early Spanish literature. May be repeated, see note above.

161. Topics in Golden Age Spanish Literature. Cr. 2-4. Selected areas of study concerning individual genres, authors, movements, or aspects of Spanish literature of the Golden Age. May be repeated, see note above.

162. Topics in Nineteenth Century Spanish Literature. Cr. 2-4. Selected areas of study concerning individual genres, authors, movements, or aspects of Spanish nineteenth century literature. May be repeated, see note above.

163. Topics in Spanish-American Literature. Cr. 2-4. Selected areas of study concerning individual genres, authors, movements, or aspects of Spanish-American literature. May be repeated, see note above.

164 (264). Topics in Contemporary Hispanic Literature. Cr. 2-4. (Graduate Credit 2-3.) Selected areas of study concerning individual genres, authors, movements, or aspects of contemporary Hispanic literature. May be repeated, see note above.

190. Directed Reading in Spanish. Cr. 1-4. Intended for students capable of doing independent study in Hispanic language, civilization, or literature. Research paper required. May be repeated, see note above.

191. The Teaching of Foreign Languages. Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.

GEOGRAPHY
STAFF: Associate Professor Rechlin (Chairwoman); Professors Kailey and Stietelmeier; Assistant Professors Hansis and Janke; Mr. Keilheim

The Department has two major objectives: (1) to provide students with a fundamental knowledge of human behavior as it relates to the earth's physical and cultural environments; and (2) to equip students with marketable skills for employment in jobs related to the discipline, or to prepare them for graduate programs leading toward advanced degrees.

Student interest in geography outside of the classroom is encouraged through the Geography Club, which organizes social activities as well as cultural programs. In addition, those who distinguish themselves by high scholarship may be elected to membership in Gamma Theta Upsilon, the International Geographic Honor Society. The Alpha Xi Chapter of Gamma Theta Upsilon was installed at Valparaiso University on April 24, 1950.

Valparaiso University, with more than 125,000 maps, is one of the map repositories of the Army Map Service and United States Geological Survey from which the department currently receives thousands of national, regional, and topographic maps of all continents.

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1Sabbatical Leave, Spring Semester 1977-1978.
Social Science Credit is given for all geography courses EXCEPT 3, 4, and 5, which yield natural science credit.

General Major. A minimum of 30 credits in geography. Courses must include 1, 2, 3, 4, 62, at least one course from the 100-108 series, and one course numbered 150 or above.

Professional Major. Offered to students who are contemplating professional or graduate work in geography. Students with a professional major must take at least 35 hours in the department. They are required to take 1, 2, 3, 4, 62, and 154, and at least four of the following systematic or technical courses: 150, 152, 156, 160, 161, 166, 168, 178.

It is recommended that professional geography majors select those courses from the following cognate subjects which will most closely correlate with their program of geographic concentration: biology, economics, history, mathematics, and political science.

Minor. Although a minor is not required for graduation from the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 18 credits in geography constitutes a minor. Geography 1, 2, 3, and 4 must be included.

The Valparaiso University-Indiana University Northwest Geography and Geologic Association (Major in Geology). See page 94 for details.

Approval of Schedules. All students taking a major or a minor in the department, and all students planning to teach geography must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate Credit (Offering Natural Science Credit).

3. (Formerly 30.) Meteorology and Climatology. Each sem. 2+4, Cr. 4. An introduction into the causes of weather and associated climatic characteristics of each continent. Use of meteorological equipment, arranging, and recording climatic data, constructing weather maps, and forecasting weather conditions. Laboratory fee, $10.00. Geography 3 and 4 are complementary studies of the physical environment but need not be taken in sequence.

4. (Formerly 10.) Geomorphology. Each sem. 2+4, Cr. 4. An introduction to the study of landform development. Geologic structure and the processes of erosion and deposition are analyzed. Laboratory and field trip fee, $10.00. Geography 3 and 4 are complementary studies of the physical environment but need not be taken in sequence.

5. (Formerly 20.) Physical Geography of North America. 3+2, Cr. 4. An analysis of the landform, climate, vegetation, and soil regions of North America. Prerequisite: Geography 3 or 4. Laboratory and field trip fee, $12.00.

Undergraduate and Graduate Credit (Offering Behavioral and Social Science Credit).

1. (Formerly 50.) Introduction to Human Geography. Each sem. Cr. 3-4. Human occupancy of the earth is examined as it relates to the physical-cultural environment. For a fourth hour of credit students are assigned three books to read and evaluate under the direction of the instructor. Geography 1 and 2 are complementary but need not be taken in sequence.

2. (Formerly 52.) Introduction to World Patterns. Each sem. Cr. 3-4. A survey of the world's great physical-cultural regions with special emphasis upon geographic theories, principles, and concepts. For a fourth hour of credit students must successfully complete a program of extra work under the direction of the instructor. Geography 1 and 2 are complementary but need not be taken in sequence.

60. Conservation of Natural Resources. Each sem. Cr. 3. A study of the nature of American resources, current problems in their development, attitudes that led to the creation of those problems, techniques designed to correct them and solutions that appear desirable for the future. Open to all students.

62. Economic Geography. Cr. 3. The location of economic activities, including agriculture, industry, services, and transportation, as parts of a system. Open to all students.

70. (Formerly 162.) Current Themes in Geography. Cr. 2-3. This course is designed to examine current geographic problems. A different theme will be selected each time the course is offered. Each topic is dealt with through examination of its causes, and discussion of techniques and results as they apply to problems associated with the physical environment. Prerequisite: sophomore standing or above.

72. Communicating with Maps. Cr. 3. Maps are analyzed as a form of communication. Various types of maps are studied and their techniques for communicating information are examined. Prerequisite: sophomore standing or above.

74. Geography of the North American Indian. Cr. 3. Regional treatment of the past and current conditions of North American Indian land use and settlement from the Biblical to the Reservation period. Special attention will be given to the regional analysis of native cultural areas and the impact of federal policy on contemporary social issues. Prerequisite: sophomore standing or above.

100-108. Regional Geography. Each sem. Cr. 3. A geographic interpretation of the physical, social, political, industrial and commercial patterns of a particular region in relation to the world. Prerequisite: sophomore standing or above. Several regional courses may be offered each semester from the following: 100.

100. United States and Canada. Cr. 3.

101. Latin America. Cr. 3.

102. Europe. Cr. 3. Recommended for students planning to participate in the overseas study program.

103. Africa. Cr. 3.

104. Asia. Cr. 3.

105. Soviet Union. Cr. 3.

106. Near East. Cr. 3.

107. Australia-Oceania. Cr. 3.

108. Field Study in European Geography. Cr. 3. Overseas Study Program only.

126. The Geography of Contemporary World Issues. Cr. 3. A course designed to introduce the non-geographer to the methods of geographic thought through an examination in depth of selected current world problems. Its primary direction is cultural in approach, concentrating on economic and political geography. May be used to fulfill the General Studies Requirement. Prerequisite: junior or senior standing. Not open to geography majors for credit toward their majors.

150. Urban Geography. Cr. 3. A course treating urban settlements as distinct geographic units. Topics which will be covered include the history of urban settlement, economic classification of cities, and patterns of urban land use. Prerequisite: junior or senior standing.

152. Urban and Regional Planning. Cr. 3. A course treating the nature, purposes, objectives, techniques and organization of modern community planning for the promotion of social and economic well-being. Prerequisite: junior or senior standing. Field trip fee, $10.00.

154. Cartography. 0+6, Cr. 3. An introduction to cartographic techniques, compilation, construction, and reproduction. Prerequisite: junior standing. Laboratory fee, $10.00.

156. Air Photo Interpretation and Remote Sensing. 2+2, Cr. 3. An introduction to aerial photographs and data from remote sensors, including their use for land use planning. Prerequisite: Geography 3 or consent of instructor. May be of interest to students in biology, political science, and civil engineering. Laboratory fee, $12.00.
160. Statistical Analysis in Geography. Cr. 3. A course designed to teach the techniques of data collection and quantitative analysis. Prerequisite: junior or senior standing. Laboratory fee, $5.00.

161. Research Design. Cr. 2-3. Each time this course is offered a different topic will be selected for examination through which the methods of research are taught. Normally topics will deal with current problems in northwestern Indiana. The results of the class research frequently contribute to the solution of the problem studied. A student may repeat the course for credit as each new topic is investigated. The three-credit course will extend throughout the full semester and the two-credit course will extend through one-half semester. Prerequisite: junior or senior major, or permission of the instructor. Laboratory fee, $10.00.

166. History of Geography. Cr. 3. Readings, papers, and discussion on the development of geographic thought especially in the nineteenth and twentieth centuries; on basic techniques and concepts of the field; on the place of geography within thought and value systems; and on the contributions of major geographers, past and present, to the discipline and to the large world of thought. Prerequisite: junior or senior standing.

168. Independent Study. Cr. 2-6. Individual research or readings on a topic in geography agreed upon by a student and a faculty member of his/her choice from within the department staff. Prerequisites: junior or senior standing and consent of the chairperson of the department. May involve field work or internships in public or private agencies.

171. Selected Topics in Physical Geography. Cr. 2-3. Advanced studies in physical geography. Such topics as landform analysis, applied climatology, and the development of environmental impact statements will be considered. May be repeated with a change in topic. Prerequisite: Geography 3 or Geography 4 or the equivalent. Laboratory and field trip fee, $10.00.

174 (274). Historical Geography of the United States. Cr. 3. A regional treatment of the exploration, colonization, territorial expansion, migration, transportation, settlement, and economic development of our country in relation to the physical environment. The course is primarily designed for students majoring in one or another of the social sciences. Prerequisite: junior or senior standing. May be of interest to history majors.

176 (276). The Geography of World Affairs. Sem. 2. Cr. 2. A workshop course to develop the technique of interpreting current world events in the geographic framework in which such events occur. Prerequisite: junior or senior standing.

178 (278). Field Study. 0+4, Cr. 2. A laboratory and field course designed to develop insight into the purposes and techniques of geographic field work. Laboratory and field trip fee, $10.00. Prerequisite: Geography 3 or Geography 4 or the equivalent.

Graduate Credit.

305. Geographic Thought. Cr. 3. A survey of the main strands of geographic thought from antiquity to the present. Emphasis is upon contemporary ways of knowing and interpreting the data of geography. Particular attention is given to the ideas, principles, and concepts which have been contributed by recent and contemporary scholars in the field. Opportunity is offered for consideration of the ethical, pedagogical, and vocational implications of geography.

310. Western Cultural Geography. Cr. 3. An environmental appraisal of the European-American regional patterns of culture which are essential to the understanding of Western humankind.

315. Non-Western Cultural Geography. Cr. 3. An environmental appraisal of the cultural regional patterns of the non-Western world.

320. American Resources. Cr. 3. A study of the development of thought with respect to the nature and function of natural resources of the United States in the context of prevailing physical and cultural conditions.

HISTORY

STAFF: Professor Startt (Chairman); Professors Boyd, Kautz, and Krodel; Associate Professors Berg, Engelder, Kohlhoff, and Schaefer; Assistant Professor Schoppe

Major. A minimum of 30 credits in history. Courses must include History 1, 2, 170, 171, 196, one three-credit research seminar, and one course in non-Western history.

Students planning on graduate work are strongly urged to acquire reading proficiency in at least one modern foreign language.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 18 credits in history constitutes a minor. History 1 and 2 must be included.

Concentration Areas. It is recommended that students whose field of interest lies in the Humanities attain the ability to read a foreign language. In the case of a modern language, it is further recommended that they develop a basic writing ability and sufficient oral ability to maintain a sustained conversation. It is also recommended that they take a year of philosophy and a considerable number of literature and fine arts electives.

For students whose field of interest lies in the Social Sciences, or who will be teaching on the secondary level, it is recommended that they take a variety of geography, political science, economics, sociology, and psychology electives, and either a semester of philosophy or a year of mathematics and/or statistics.

Approval of Schedules. Students taking a major or minor in the department must have their schedules approved by the chairperson at registration each semester. In addition, all majors above the freshman level are requested to select a member of the department for general advising of any nature.

Undergraduate and Graduate Credit.

SURVEY.

1. Western Civilization I. Cr. 3. An introduction to the historical development of the Western world from the ancient Near East to the 18th century.

2. Western Civilization II. Cr. 3. An introduction to the historical development of the Western world from the 18th century to the present.

30. United States History I. Cr. 3. A study of the various aspects of American civilization from the age of discovery to the end of the Civil War, with emphasis on the development of democratic ideas and institutions.

31. United States History II. Cr. 3. A study of various aspects of American civilization from the Civil War to the present, with emphasis on the development of industrial and world power against a background of social and cultural tensions.

50. Latin American Civilization I. Cr. 3. A survey of the major periods of Latin American history to 1825, with emphasis on the pre-Columbian Indian cultures, Africa's contribution, and the Iberian heritage.

1Sabbatical Leave, Spring Semester 1977-1978.

*Credit for History 1 and 2 may be earned through the College Level Examination Program (CLEP) subject examination in Western Civilization.

**Credit for History 30 and 31 may be earned through the College Level Examination Program (CLEP) subject examination in American History.
or half-semester courses

61. Modern East Asian Civilization. (Formerly East Asian Civilization I.) Cr. 3. A survey of the traditional cultures of China, Japan, and Korea prior to the impact of Western civilization, and the struggle for development and self-expression in our times.

EUROPEAN HISTORY.

Prerequisite: sophomore standing or consent of the chairperson of the department.

101. Ancient Mediterranean World I. Cr. 3. A study of the Eastern Mediterranean peoples from the earliest times to Alexander the Great.

102. Ancient Mediterranean World II. Cr. 3. A study of Hellenistic and Roman civilization to the 5th century A.D.

105 (205). Topics in Medieval and Early Modern European History. Cr. 3. An examination of individual periods and topics in European history from 600 to 1700, such as: the early Middle Ages, the later Middle Ages, the Age of the Renaissance, the Protestant Reformation, the Roman Catholic Reformation, the Age of Absolutism. Varied listings to be announced each semester. The course may be repeated for credit if the topics are different.

110 (210). French Revolution and Napoleon. Cr. 3. A study of the background, development, and significance of the French Revolution and Napoleonic Era.

115 (215). Modern Europe I 1870-1919. Cr. 3. A study of Europe emphasizing themes of nationalism, political evolution, militarism, industrialism, and Western World predominance to the close of World War I.

116 (216). Modern Europe II 1919-. Cr. 3. A study of Europe during the last half century emphasizing the aftermath of World War I, the Nazi Revolution, the road to World War II, and the post 1945 European setting.

120. History of England I. Cr. 3. A study of main currents in the evolution of the cultural, social, and constitutional institutions of England, and their importance for understanding American history.

121. History of England II. Cr. 3. A study of main currents in modern British history.

122. Modern Britain. Cr. 3. An examination of modern British history emphasizing selected problems. Cambridge Study Center only.

125. History of Germany. Cr. 3. A study of the German people since the 17th century, with emphasis upon the unique factors shaping their history to the present time.

126. Germany During the Sixteenth Century. Cr. 3. A study of the political, social, economic, and religious movements in Germany during the age of the Reformation. Reutlingen Study Center only.

127. Modern Germany. Cr. 3. An examination of modern German history emphasizing selected problems. Reutlingen Study Center only.

129. British Empire and Commonwealth. Cr. 3. A study of the Empire emphasizing its evolution in the nineteenth and twentieth centuries. Particular attention will be given to an introduction of the Old Dominions (Canada, Australia, New Zealand, and South Africa), to the British in India, and to interpretations of imperialism.

HISTORY OF THE AMERICAS.

Prerequisite: sophomore standing or consent of the chairperson of the department.


131 (231). The Founding of the Nation 1763-1815. Cr. 3. A study of the events leading to the American Revolution and the working out of new directions in the young United States.

132 (232). The Federal Union 1815-1860. Cr. 3. A study of the major problems that beset the American people from the close of the War of 1812 to the eve of the Civil War.

133 (233). Civil War and Reconstruction. Cr. 3. A study of the great watershed conflict in American history, with special emphasis on the problems of Black Americans.

134. Modern America I 1896-1929. Cr. 3. An intensive study of recent United States history, emphasizing such themes as continental expansion, industrial development, political reform, immigration and urbanization, minority peoples, imperialism, and world power status.

135 (235). Modern America II 1929-. Cr. 3. An intensive study of recent United States history from the great depression and New Deal of the 1930's to the present.

137. History of the American City. Cr. 3. A study of urban life in America from the colonial town to the late 20th century megalopolis, with emphasis on industrialization, social class, ethnic and race relations, social and criminal violence, and urban ecology. The city of Chicago serves as a paradigm for much of American urban history, and students will investigate it in print and on a weekend field trip.

139 (239). Indiana History. Cr. 3. A survey of Indiana history from prehistoric times to the present. Beginning with a general geographical overview, the course will cover the Indian, French, and English periods and on through the American territorial and state development to the present.

140 (240). Constitutional History of the United States. Cr. 3. An examination of the growth of the American constitution with emphasis upon its formation and leading cases which determined its development.

150 (250). History of Mexico. Cr. 3. A study of the struggle for political, economic, and cultural identity in America's southern neighbor.

NON-WESTERN HISTORY.

Prerequisite: sophomore standing or consent of the instructor.

160. Traditional Chinese Civilization. (Formerly History of China to 1800.) Cr. 3. A study of the political, economic, social, and cultural development of traditional China from the earliest times to the 19th century.

161. History of Modern China. (Formerly History of China Since 1800.) Cr. 3. A study of the decline of traditional civilization resulting from domestic crisis and foreign pressures, and the search for a new orthodoxy in the Chinese Revolution.

SPECIALIZED OFFERINGS.

170. Introduction to Historical Research. (Formerly The Study of History.) Cr. 2. A half-semester course that will examine the discipline of history, the sources of historical knowledge, and the problems and procedures of historical method. Prerequisite: six hours of history.

171. Quantification in Historical Research. Cr. 2. A half-semester course that will introduce students to the techniques and methods of analyzing historical quantitative data. Included will be a discussion of the classification and arrangement of data, an introduction to the use and analysis of various data measures, and an introduction to the use of the computer in historical research. No mathematical background is required and no mathematical knowledge is presumed. Prerequisite: History 170.

172. Reading and Discussion Seminars. Cr. 2-3. These are full- or half-semester courses covering a variety of subject areas with subtitles and content dependent upon student interest and instructor choice. Examples recently offered include Slavery in the Americas, the Jim Crow Era, and Social Reform Movements in United States History, and seven-week examinations of Russian, German, and Irish revolutionary movements in 19th and 20th century Europe. This course may be repeated for credit if the topics are different. Prerequisite: junior standing or consent of the chairperson of the department.

175. Research Seminars. Cr. 3. These are full-semester courses designed for majors, but open to other students with junior-senior standing also. They offer intensive research in both primary and secondary sources, and instruction in historical methodology. A major paper constitutes the largest part of the semester's work. This course may be repeated for credit if the topics are different. Prerequisite: junior standing or consent of the chairperson of the department.
180. Selected Readings in Historical Literature. Cr. 2. An opportunity for students to read extensively under the guidance of a member of the department a number of significant works on a given topic in history. Open to students who have taken at least eighteen hours of history and have the prior consent of the instructor and the department chairperson. This course can only be taken once from a given instructor, only once per topic, and only once for a thirty-hour major.

185. The Experience of History. (Formerly The American Experience.) Cr. 3. An integrative course for non-majors on the junior-senior level designed to fulfill the General Studies Requirement. Students will examine the problems and challenges that face historians and will consider selected topics such as: Violence in History, Cultural Clash, Revolution, Biography, Family, and Sexual Roles in History, War and Society, and Religion and Politics. The course will include a variety of ways of considering historical reality as it appears in films, novels, and the graphic arts.

191. The Teaching of Social Studies. Cr. 2. A study of the methods of teaching social studies in secondary schools. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in the department.

196 (296). The Interpretation of History. Cr. 2. An introduction to selected major historians and their approaches to problems of interpretation faced by students of history. Prerequisite: six hours of history.

Graduate Credit.

325. The Western Tradition I. (Also offered as English 325.) Cr. 2. A study of some of the important aspects of the heritage that has come down to us from the ancient Greek, Roman, and Judeo-Christian cultures. This course will be devoted, for the most part, to a close reading of important selected texts.

326. The Western Tradition II. (Also offered as English 326.) Cr. 2. A study of some of the important aspects of the heritage that has come down to us from the Middle Ages, the Renaissance, and the Reformation. This course will be devoted, for the most part, to a close reading of important selected texts.

335. Problems In European History. Cr. 3. An intensive study of a significant period or movement in European history. Subtitles and content will depend upon instructor's choice and student interest. Normally, this course will require a major paper.

336. Problems in United States History. Cr. 3. An intensive study of a significant period or movement in American history. Subtitles and content will depend upon instructor's choice and student interest. Normally, this course will require a major paper.

340. Stuart England. Cr. 3. A concentration upon the religious, political, economic, and social problems of 17th-century England, including civil war, regicide, political experimentation, Restoration, and a resolution of the basic problem of sovereignty.

356. Latin America in the 20th Century. Cr. 3. A study of the Latin American peoples since 1900, their internal problems, policies, and foreign relations. Attention will be centered upon Mexico and the Caribbean.

HOME ECONOMICS

STAFF: Assistant Professor Shabowich (Chairwoman); Assistant Professors Evans and Anita Manning; Mrs. Adgate and Mrs. Brubaker.

The following courses are designed both to develop students intellectually and to prepare them for professional service to individuals and families. Beyond general requirements, students may pursue emphases in the following specific areas: dietetics, teacher education, child development, and interior design. By completing additional courses in the College of Business Administration, as noted below, students interested in fashion- or food-merchandising may earn a major in home economics-merchandising. Completion of degree requirements, with a major in home economics or home economics-merchandising, leads to the degree of Bachelor of Science in Home Economics.

General Major. A minimum of 32 credits in home economics. Courses must include 5, 8, 11, 45, and 140. (Students emphasizing fashion merchandising or interior design may take 7 or 45.) In addition, students must complete Chemistry 43 and 44, Biology 50, Speech 45, Sociology 51, and Psychology 51.

Students wishing to pursue careers in general dietetics must include, in addition to the above requirements, Chemistry 55, Economics 71, and Sociology 1. Students entering the dietetics emphasis after their freshman year may find that an additional semester (or semesters) is required to meet the requirements for American Dietetics Association membership.

Students planning careers in child development and/or pre-school education may wish to consider completing a program of one or two semesters with the Merrill-Palmer Institute, Detroit. (See page 93 for further information on the Merrill-Palmer Program.) This program should be entered no later than the second semester of the sophomore year.

Students wishing to pursue a major in home economics-merchandising must complete (in addition to the requirements for the general major listed above) the following courses in the College of Business Administration: Accounting 1, Economics 71, and Administrative Sciences 21, 31, 132 or 133, 41 or 137.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 15 credits in home economics constitutes a minor. Courses must include 7 or 45, 8, and 115.

Departmental Organizations. The Valparaiso University Student Home Economics Association (SHEA) is affiliated with the national and state professional home economics organizations. Membership is open to all students. Professional programs are presented once a month.

The Student Dietetic Association is open to all students interested in the dietetics profession.

The Gamma Tau Chapter of the national home economics honor society, Kappa Omicron Phi, was installed at Valparaiso in 1975. Students with outstanding scholarship and membership in SHEA are invited to membership in their junior or senior year.

Approval of Schedules. All students taking a major or minor in this department must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate Credit.

5. Foods. Sem. 1, 3+0, Cr. 3. A course covering the history of food from ancient times to modern, the food marketing structure, food sanitation and those factors which affect human food habits.

6. Food for the Family. Each sem. 2+4, Cr. 3. Basic principles underlying the preparation of foods with emphasis on the ability to judge quality in foods. Laboratory fee, $30.00.

7. Fundamental Nutrition. Sem. 2, 3+0, Cr. 3. A study of the principles of nutrition as they relate to health and well-being of individuals and families.

8. Art in Daily Living. Sem. 2, 3+0, Cr. 3. A study of the principles and application of design in relation to the quality of human environment. Fee, $2.00.

11. Clothing and Textiles. Sem. 2, 3+0, Cr. 3. An interdisciplinary approach to the study of the social, psychological, cultural, economic, and aesthetic forces that affect clothing behavior.
12. Basic Clothing Construction. Sem. 2. 1+4, Cr. 2. The purpose of this course is to enable the student to understand elementary principles of clothing construction and learn basic sewing skills. Laboratory fee, $5.00.

20. Clothing Construction and Flat-Pattern Design. Each sem. 1+6, Cr. 3. Principles of designing with the flat pattern and fitting garments. Evaluation of various construction methods in relation to style, fabric construction, and end use. Laboratory fee, $5.00. Prerequisite: Home Economics 12 or consent of the chairperson of the department.

45. Human Nutrition. Sem. 1. 3+0, Cr. 3. A study of the principles of human nutrition, metabolism of nutrients, nutrient requirements, and nutrient composition of foods. Prerequisite: Chemistry 44 or 71.

51. Meal Management. Each sem. 1+6, Cr. 4. A study of the economic and nutritional problems involved in buying and utilizing food and of the managerial aspects of meal planning and meal service. Guest meals which are planned, prepared and served by the students throughout the semester are followed by product and performance evaluation. Prerequisites: Home Economics 6 and 7 or 45. Laboratory fee, $30.00.

52. Custom Tailoring. Sem. 1. 1+6, Cr. 3. Advanced clothing construction, with emphasis upon tailoring a suit or coat. Field trip arranged if time permits. Prerequisite: Home Economics 20 or consent of the chairperson of the department. Laboratory fee, $5.00.

65. Physiological Chemistry. (Also offered as Chemistry 55.) Sem. 1. 3+0, Cr. 3. The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism; brief consideration of enzymes, vitamins, and the chemistry of food processing. This course may not be counted towards a major or minor in chemistry. Prerequisite: Chemistry 44.

101. Family Health. (Also offered as Physical Education 47.) Each sem. 2+0, Cr. 2. A study of health concerns as they relate to the needs of the family. Offered as a short course.

102. Interior Design. Sem. 1. 3+0, Cr. 3. Application of the principles of art to the design of the home and its furnishings as demonstrated in historic and contemporary dwellings. Field trip arranged. Prerequisite: Home Economics 8 or consent of the chairperson of the department.

104. Advanced Textiles. Sem. 1. 2+2, Cr. 3. A study of the specific properties of fibers, yarn and fabric construction, and finishing, in relation to end performance of textiles; processes of standardized testing, government regulations, and consumer evaluation; the selection and use of care of textiles. Field trip arranged. Laboratory fee, $5.00. Prerequisites: Home Economics 11 and junior standing.

114. Housing and Equipment. Sem. 2. 3+0, Cr. 3. A study of family housing needs as influenced by family life cycle, geographic location, and income. Problems concerning the choice of house plans, exterior designs, and home construction practices are included. Home equipment including purchasing, operation, care, and servicing will also be considered. Field trip arranged. Prerequisite: junior standing.

115. Consumer Economics. Each sem. 3+0, Cr. 3. The aim is to give information to the consumer to help deal effectively with some current problems that arise in the marketplace: i.e., buying-selling decisions, advertising, budgeting, credit, food, clothing, housing, insurance, etc. Current legislation and consumer agencies are discussed. May be taken to fulfill General Studies Requirement. Prerequisite: junior or senior standing.

125. Experimental Foods. Sem. 1. 1+5, Cr. 3. An advanced course in foods using sensory and objective testing methods for evaluating food products. Recipe development and other applications to the foods industry are included. Prerequisites: Home Economics 6 and Chemistry 44. Laboratory fee, $25.00.

126. Cultural Aspects of Food. Sem. 2. 2+3, Cr. 3. A study of the historical, social, psychological, economic, religious and aesthetic significance of food customs in various cultures. Prerequisite: junior standing or consent of the chairperson of the department. Fee, $30.00.

131. Clothing Design. Sem. 2. 1+4, Cr. 3. Fundamentals of draping on personal dress forms to give the student a tool for developing original design ideas. Prerequisite: Home Economics 20. Laboratory fee, $5.00.

135. The Fashion Business. Sem. 1. 3+0, Cr. 3; 3+2, Cr. 4. A study of the fashion industry and the development of fashion throughout the ages. Emphasis upon the development of a fashion portfolio. The additional credit may be earned through a guided work-study program either in the summer prior to the semester the student is enrolled or the semester in which the student is enrolled. The work-study option is open only to majors in the merchandising program. Field trip arranged. Prerequisites: Home Economics 11, Administrative Sciences 31, and junior standing.

140. Child Care and Development. Sem. 1. 3+2, Cr. 4. A study of factors affecting the physical, social, mental, and emotional development of young children in the home and fundamental principles in the care and guidance of children. An observation of a pre-school child in a family situation for two hours per week and three pre-school visitations of two hours each are assigned. Prerequisites: Psychology 51 and junior standing.

149. Quantity Food Service. Sem. 1. 2+4, Cr. 3. A study of quantity food production and service including menu planning, work planning, and food preparation. Consideration is given to the equipment, storage facilities, and sanitation necessary for institutional food service. Field trip arranged. Prerequisite: Home Economics 51.

150. Organization and Management of Food Services. Sem. 2. 3+0, Cr. 3. A study of the organization and administration of the food service industry including the principles of management and the role of the manager, as well as the structure of the organization. Consideration is given to the control of personnel, costs, and safety. Prerequisites: Home Economics 149 and Accounting 1 or consent of the chairperson of the department.

152. Home Management Theory. Sem. 2. 3+0, Cr. 3. A study of the fundamental concepts in the management of the home—the interrelationships of family members—the effect of family philosophy, values, and goals in decisions of the use of resources of time, energy, and money. Prerequisite: junior standing.

156. Advanced Nutrition. Sem. 2. Cr. 3. An advanced study of the metabolic roles of nutrients. Techniques for evaluation of nutritional status are also studied. There is an emphasis on research techniques and current research results. Prerequisites: Home Economics 45 and Biology 115.

164. Diet Therapy. Sem. 2. Cr. 3. Application of the principles of nutrition in the dietary treatment of certain pathological conditions. Planning of practical dietary programs for the specific diseases is included. Prerequisites: Home Economics 45 and 162 and Biology 115. Laboratory fee, $5.00.

190. Home Economics for the Teacher. Sem. 1. 3+0, Cr. 3. A study of the teaching of home economics including past and present procedures, and future innovations. Field trip arranged. Prerequisite: junior or senior standing.

191. The Teaching of Home Economics. Sem. 2. Cr. 2. (See Education 191.) A study of the problems and methods of teaching home economics. This course may not be counted towards a major or minor in this department. Prerequisite: admission to Supervised Teaching. Laboratory fee, $5.00.

195. Independent Study. Each sem. Cr. 1-3. Independent work in a specialized area of home economics as agreed upon by the student and faculty adviser. Proposals for 2 or 3 credits must be approved by the department chairperson. Guidelines are available from the faculty. Prerequisite: junior or senior standing.

196. Professional Seminar and Field Experiences in Dietetics. Each sem. Cr. 2. Field work in hospitals arranged with registered dietitians to provide experience in both clinical and management dietetics. Seminar papers and group discussions will be based on field experiences and focus on professional preparation. Prerequisite: junior or senior standing.
JOURNALISM
STAFF: Associate Professor Galow (Chairman)

Major. 30 credits in journalism and related fields as indicated below. Courses must include Journalism 130, 131, 132; two courses chosen from 133, 134, and 135; and 6 credits in 170 (at least 3 credits in internship).

In addition to the above 21 credit hours, the student must earn 9 credit hours in courses selected from the following: Art 61, 62 or 65; Art 131 or 132; Speech and Drama 91, 92, or 153; Journalism 172, 173, or 175. In certain instances and with the consent of the chairperson of the department, the student may substitute courses in other departments for those on the list. A plan of study must be submitted to the chairperson of the department no later than the first semester of the junior year.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minor in journalism consists of 15 credit hours which must be earned in the following courses: Journalism 130, 131, 132, and 170; and one course selected from Art 61, 62, 65, 131, or 132; Speech 91, 92, or 153; or Journalism 133, 134, 135, 170, 172, 173, or 175.

Teaching Minor. A teaching minor consists of 24 credit hours which must be earned in the following courses: Journalism 130, 131, 132, 134, 170, and 172; and 6 hours of elective credit from the following: Speech 91, 92, 153; Art 61, 62, 65, 131, 132; English 57, 122, 131; and Journalism 133, 135, 170, 172, 173, 175.

Approval of Schedules. All students majoring or minoring in journalism must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate and Graduate Credit.

130. Introduction to Mass Communication. Cr. 3. A course in the history, development, and organization of the mass media. Analysis and evaluation of the mass media. Analysis and evaluation of the performance of the media and of their relationships to society and government. Examination of the canons of journalism. Discussion of the problems of libel, slander, and censorship. Prerequisite: English 5 (or 3-4).

131. Newswriting. Cr. 3. A course in the fundamentals of news writing and news gathering. Practice in writing various types of news stories; problems of in-depth writing and reporting; introduction to newspaper organization and methods. Laboratory and field work. Prerequisite: English 5 (or 3-4).

132. Newsediting. Cr. 3. A course in copy editing, headline writing, and newspaper make-up. Basic principles of news evaluation; photo editing; introduction to layout. Laboratory practice. Prerequisite: Journalism 131 or consent of the chairperson of the department.

133. Broadcast News. Cr. 3. A course in the fundamentals and special requirements of radio and television news reporting, writing, and editing. Laboratory and field work. Prerequisite: Journalism 131 or consent of the chairperson of the department.

134. Introduction to Advertising. (Formerly Advertising in Mass Communications.) Cr. 3. Introduction to advertising—copy preparation, graphics, design. Principles of advertising in relation to mass communication. Prerequisite: Journalism 130 or consent of the chairperson of the department.

135. Introduction to Public Relations. Cr. 3. Survey of the history, development, principles, and practices of public relations; investigation of public relations ethics, relationships, and role in mass media and society; case studies and experiments in public relations practices. Prerequisite: sophomore standing.

170. Advanced Newspractice. Cr. 3. A workshop for the advanced journalism student, comprising in-depth reporting, opinion and editorial writing, specialized editing, and publications design. May be repeated for credit as an independent study project (cr. 1-4) to meet the needs of an individual student or a team of students having a special interest in a journalistic topic or problem not covered in course offerings; or as an internship (cr. 1-4) with regular field work in a non-student-sponsored journalism agency. Prerequisites: Journalism 131 or 132 and consent of the chairperson of the department.

172. Senior Seminar: Special Problems in Journalism. Cr. 3. Examination of a specific topic in journalism and/or mass communication. Enrollment limited. Free discussion and active student participation are key ingredients of this seminar. Admission by consent of the chairperson of the department.

173. Advertising/Public Relations Practicum. Cr. 3. Advanced study of public relations or advertising, offered in alternate semesters. Emphasis on practical work, problem solving, and case study. Prerequisites: Journalism 134 or 136 and junior standing.

175 (275). Mass Media in Modern Society. Cr. 3. Study of interaction between mass media and society. Examination of freedom of the press theories, communication theory, and relationships—problems in the role of the press with government, business, the courts, and other segments of society.

176 (276). Supervision of Student Publications. Cr. 3. Problems and practices of supervision of student newspapers, magazines, yearbooks, and other publications. Prerequisites: Journalism 132 and consent of the chairperson of the department.

180. General Studies in Journalism. Cr. 3. Examination of a specific area or relationship in journalism and/or mass communication, or between journalism and/or mass communication and another discipline. This course is designed to fulfill the General Studies Requirement. Prerequisite: junior or senior standing.

191. The Teaching of Journalism. Cr. 2. (See Education 191.) A study of the methods of teaching journalism and mass media-related courses in the secondary school. Prepares students to sponsor high school newspaper, yearbook, or literary magazine; includes examination of state-adopted texts, budgeting, organizing staffs, working with professional media, examining other school publications, and reviewing basic journalistic styles. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in the department.

MATHMATICS
STAFF: Professor Mundt (Chairman); Professors K. Carlson, Foster, Hallerberg, Lennes1, and Sorenson; Associate Professors R. Deters2, Hughes, Reynolds, and Sanford3; Assistant Professors L. Carlson, Krebs, and Wagenblast; Miss Treanor

Major. A minimum of 28 credits in mathematics. Courses must include 75, 76, 77, 102, 114 or 139, 177 or 184, 193, 194 or 196, and one additional course numbered above 100. For the Bachelor of Science degree, course 107 must also be included.

Mathematics majors who will not complete a second major in another department must, at the beginning of their junior year, submit for approval by the chairperson of this department a detailed program for their field of concentration. This program should include at least 40 credits in mathematics and related fields and it must include at least one course which applies mathematics to a related field (e.g., Mathematics 163.)

1 Sabbatical Leave, Spring Semester 1977-1978
2Leave of Absence, Spring Semester 1977-1978
3Sabbatical Leave, Fall Semester 1977-1978
Students having a major in view should begin mathematics in their freshman year. Mathematics majors should elect French, German, or Russian to satisfy the foreign language requirement of the College of Arts and Sciences. Those planning to do graduate work in mathematics should take Mathematics 114 and 177.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 12 credits in mathematics including 36 or 76 constitutes a minor. Credits cannot include more than 8 credits from courses 31, 33, 36, 70, 75, or 76, and must include credits from two courses other than these.

Placement Examination. All students who expect to take courses 31, 33, 36, 61, 70, or 75 should take the Mathematics Department Placement Examination during Orientation Week. This Placement Examination is in three parts.

1. High School Algebra. Students who do not pass this part must complete Mathematics 10 before enrolling in any of the above courses.

2. Set Theory and Elementary Functions. Students who receive a high score on this part will receive two credits for Mathematics 33.

3. Trigonometry. Only students who wish to enroll in Mathematics 75 will take this part. Any such student who does not exhibit proficiency in this material will be required to take Mathematics 70 before Mathematics 75.

Approval of Schedules. All students taking a major or minor in this department and all students planning to teach mathematics must have their schedules approved by the chairperson of the department (or representative) at the beginning of each semester.

Undergraduate Credit.

Note: A student may use 31 and 33 together as 4 credits toward the Natural Science and Mathematics Requirement, but may not use either 31 or 33 alone, unless credit is also earned in another course in Mathematics (or Computer Science).

10. Algebra. Sem. 1. 7 weeks. Cr. 0. A remedial course in the fundamentals of algebra. Topics include: exponents, radicals, polynomials, factoring, algebraic fractions, and systems of equations. Students will work at their own pace using programmed text material. Completion of this course is approximately equivalent to the completion of three semesters of high school algebra. S/U grade.

14. (Formerly 161). Mathematical Ideas. Each sem. Cr. 4. A one semester course intended primarily for students majoring in the humanities. Important concepts in mathematics will be studied from a non-technical point of view. Prerequisite: restricted to students who have not previously completed a college mathematics course.

31. Matrix Algebra. Each sem. 7 weeks. Cr. 2. A course for students not majoring in mathematics or the physical sciences. Topics include elementary matrix theory, solution of systems of linear equations, and an introduction to linear programming. Prerequisite: satisfactory score on part (1) of the Placement Examination or successful completion of Mathematics 10.

33. Elementary Functions. Each sem. 7 weeks. Cr. 2. For students not majoring in mathematics or the physical sciences, this is a course on the basic concepts of functions and their study of the elementary functions. Topics include relations, inequalities, functions and their graphs, composition, inverses and their properties; polynomial, exponential, and logarithmic functions. Prerequisite: satisfactory score on part (1) of the Placement Examination or successful completion of Mathematics 10.

*36. Intuitive Calculus. Each sem. Cr. 4. This course is an intuitive treatment of the calculus for students not majoring in mathematics or the physical sciences. Topics include sequences, mathematics of finance, differential and integral calculus, and applications. Prerequisite: Mathematics 33 or 70 or the equivalent.

40. Laboratory in Elementary Mathematics. Sem. 1. 0-2, Cr. 1. This course is designed to provide an opportunity for the prospective elementary teacher to learn certain mathematical concepts in an active, materials-centered situation. Enrollment is restricted to students in the special curriculum in elementary education. Prerequisite: concurrent registration in Mathematics 43. S/U grade.

43. Elementary Mathematics I. Sem. 1. Cr. 4. This course is restricted to students majoring in elementary education. Topics include elementary logic, sets, numeration systems with their historical backgrounds; elementary number theory; mathematical systems, the whole number system, and the rational number system.

44. Elementary Mathematics II. Sem. 2. Cr. 4. This is a continuation of Mathematics 43. Additional topics include intuitive geometry, non-metric and metric approaches to geometry, geometric figures in the plane and space, the axiomatic approach; elements of probability and statistics; concepts of algebra, functions, and graphs. Prerequisite: Mathematics 43.

*54. Statistical Analysis. Each sem. Cr. 4. A course in statistical methods for students not majoring in mathematics. Topics include probability, empirical and theoretical frequency distributions, sampling; correlation and regression, testing hypotheses, estimation of parameters. Emphasis will be placed on illustrations and application of these techniques to the social sciences and business. This course is not open to any student who has had a first statistics course in any department. Prerequisite: Mathematics 36 or the equivalent.

57. Quantitative Methods. (Also offered as Administrative Sciences 23.) Each sem. Cr. 3. A course covering operations models in the field of management science. Topics such as Bayesian decision-making, inventory analysis, linear programming, queuing theory, and simulation are included. Prerequisites: Mathematics 54 and 36.

70. Precalculus. Sem. 1. Cr. 3. A course for students who plan to take the calculus sequence. Topics include sets and numbers, relations and functions, circular and trigonometric functions, exponential and logarithmic functions. Prerequisite: proficiency in algebra. It is recommended that students take Mathematics 70 and computer programming concurrently.

**75. Calculus I. Each sem. Cr. 4. This course is designed for students who plan to major in mathematics, engineering or a physical science. Topics include a brief review of set theory, induction and the real number system; algebraic and trigonometric functions, inequalities and absolute value; limits, continuity and derivatives; and an introduction to the theory of the integral. Prerequisite: proficiency in precalculus mathematics as shown on the placement examination in Introductory Calculus or in Mathematics 70. It is recommended that students take Mathematics 75 and computer programming concurrently.

76. Calculus II. Each sem. Cr. 4. A continuation of Mathematics 75. Topics include area; techniques of integration; exponential, logarithmic and inverse trigonometric functions; topics from intermediate geometry; indeterminate forms and improper integrals. Prerequisites: Mathematics 75 and some computer programming ability.

77. Calculus III. Each sem. Cr. 4. A continuation of Mathematics 76. Additional topics include sequences, series, polynomial approximation to functions, and improper integrals; vector algebra, calculus of functions of several variables, and multiple integration. Prerequisite: Mathematics 76.

102. Linear Algebra and Its Applications. Each sem. Cr. 4. Matrices and linear transformations; eigen values, eigenvectors and characteristic polynomials; minimum polynomial and canonical forms; applications to differential equations and other areas. Prerequisite: Mathematics 70.

*Credit for Mathematics 36 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Calculus.

**Credit for Mathematics 54 may be earned through the College Level Examination Program (CLEP) subject examination in Calculus.

***Credit for Mathematics 75 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Calculus.
104. **Differential Equations with Linear Algebra.** (Formerly Linear Algebra and Differential Equations.) Each sem. Cr. 4. Matrices and systems of linear equations; vector spaces and linear transformations; elementary and linear differential equations; introduction to systems of linear differential equations. Prerequisite: Mathematics 76.

107. **Differential Equations with Laplace Transforms.** Sem. 1. Cr. 3. Elementary and linear differential equations and Laplace transforms. Prerequisites: Mathematics 77 and 102 or 104.

114. **Abstract Algebra I.** Each sem. Cr. 4. This course provides an introduction to modern abstract algebra. Topics include: relations, operations, and sets; algebra; congruences and symmetric groups; rings and fields. Prerequisite: Mathematics 76.

132. **Introduction to Operations Research.** Sem. 2. Cr. 3. A survey of deterministic and probabilistic models used in Operations Research and Management Science. Topics include linear programming, inventory models, networks, queues, Markov chains, dynamic programming, and simulation. Prerequisites: Mathematics 102 or 104 and 54 or 146. (Offered upon sufficient demand.)

137. **Numerical Methods.** (Formerly Numerical Analysis.) Sem. 1. Cr. 3. The analysis and implementation of basic numerical techniques: matrix methods for the solution of systems of equations, interpolating polynomials, finite differences, numerical differentiation and integration, numerical solution of differential equations, zeros of non-linear equations and error analysis. Students are expected to solve problems using a digital computer. Prerequisites: Mathematics 77 and either 102 or 104 and proficiency in an algorithmic computer language. (Offered upon sufficient demand.)

139. **Applied Algebra.** (Formerly Applied Algebra and Numerical Methods.) Sem. 1. Cr. 3. A survey of algebraic structures from the perspective of computational mathematics. Graphs, semi-groups, groups, Boolean algebras, lattices, rings and fields, Combinatorics. Students are expected to solve problems using a digital computer. Prerequisites: Mathematics 76 and proficiency in an algorithmic computer language. (Offered upon sufficient demand.)

145. **Probability and Statistics.** Each sem. Cr. 3-4. An introduction to probability and statistics, including probability spaces, random variables, classical discrete and continuous probability distributions, correlation and regression, the Central Limit Theorem, and elementary applications of these topics to statistical inference. Prerequisite: Mathematics 77.

146. **Mathematical Statistics.** Sem. 2. Cr. 3. A continuation of Mathematics 145. New topics include sampling theory, estimation, tests of hypotheses, chi-square, analysis of variance, and non-parametric statistics. Prerequisite: Mathematics 145. (Offered upon sufficient demand.)

154. **Elements of Geometry.** Sem. 2. Cr. 4. Logic, axiom systems, and models; consistency, independence, and completeness; consideration of the foundations of Euclidean geometry; incidence, separation, congruence; an introduction to non-Euclidean geometry; topics from projective geometry. Prerequisite: Mathematics 36 or the equivalent.

163. **Mathematical Models in the Life and Social Sciences.** Sem. 2. Cr. 3. Topics will be chosen according to the interests of the class. These may include: utility and measurement, graph theory, game theory, learning models, models of growth processes, and simulation. Prerequisites: Mathematics 54 and 36 or 76. (Offered upon sufficient demand.)

166. **History of Mathematics.** Sem. 2. Cr. 3. A survey of the development of mathematics from the earliest time to the present. Special emphasis on topics in geometry, algebra, and elementary calculus which are related to secondary school mathematics. This course may not be counted toward a minor in mathematics. Prerequisite: Mathematics 36 or the equivalent. (Offered in alternate years. Prerequisite: Mathematics 77.)

177. **Analysis.** Sem. 1. Cr. 4. Differentiation and convergence in real n-space; implicit function theorems; topology of the real line and metric spaces; theory of the integral; multiple integration and the Jacobian; uniform convergence. Prerequisite: Mathematics 77.

182. **Introduction to Complex Variables.** Sem. 2. Cr. 3. Analytic functions; derivatives; power and Laurent series; integrals; residues; conformal inversion formula; interpretation in terms of vector transformations; the complex plane; applications to partial differential equations. Prerequisite: Mathematics 146 or the equivalent. (Offered upon sufficient demand.)


186. **Vector and Tensor Analysis.** Either sem. Cr. 3. Curvilinear co-ordinates, divergence, curl, line and surface integrals, vector integration theorems and cartesian tensors. Prerequisite: Mathematics 77. (Offered upon sufficient demand.)

190. **Topics in Mathematics.** Each sem. Cr. 3. An advanced course for mathematics majors. The topic studied, which may change from year to year, will ordinarily be one of the following: number theory, advanced abstract algebra, differential geometry, partial differential equations, measure and integration or functional analysis. This course may be repeated for credit. Prerequisite: consent of the chairperson of the department. Specific course requirements will depend on the content. (Offered upon sufficient demand.)

191. **The Teaching of Mathematics.** Sem. 1. Cr. 2. (See Education 191.) A study of the methods of teaching mathematics in secondary schools. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or a minor in mathematics.

193. **Mathematics Colloquium.** Each sem. Cr. 0. Students are required to attend the sessions in Mathematics 194 and participate in the discussion of topics presented by faculty and students. Prerequisites: junior standing and Mathematics 104 or 145.

194. **Mathematics Colloquium.** Each sem. Cr. 1. Student presentation of selected topics in mathematics arising from journal reading and research in special problems. Prerequisite: Mathematics 193.

195. **Readings in Mathematics.** Each sem. Cr. 1-3. Students study advanced topics in mathematics under the supervision of a faculty member. Written work is required. Prerequisite: consent of the chairperson of the department.

196. **Independent Study in Mathematics.** Each sem. Cr. 3. Each student must undertake a research problem in mathematics under the direction of a faculty member. Written and oral reports are required. Prerequisite: consent of the chairperson of the department.

**Graduate Credit.**

243. **Structures of Number Systems.** Cr. 3. Vocabulary and symbols of sets, language and notation, properties of the integers, number theory and numerical reasoning, number theory and numerical reasoning, modular number systems and groups, postulational method and the search for structure. This course is intended for teachers in the elementary schools. Not open to students who have had a year of calculus.

244. **Topics in Mathematics for Elementary Teachers.** Cr. 3. Non-metric and metric approaches to geometry, geometric figures of the plane and space, proof and structure as exemplified in geometry; topics in algebra, probability, and statistics. This course is intended for teachers in the elementary school. Not open to students who have had a year of calculus. Prerequisite: Mathematics 243 or equivalent.

**COMPUTER SCIENCE**

**Minor.** Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minor in computer science consists of 62, 124, 127, 128, and one of the following: CS 121, Math 137 or EE 143. In addition, the student must have a background in mathematics equivalent to at least Math 31, 36, and 54.

**Undergraduate Credit.**

Note: The Academic Computer Center periodically offers lectures on computer programming languages and procedures. Computer science students will be expected to attend some of these lectures as directed by their instructor.

*61. (Formerly 213) Computer Science I. Each sem. 2-2; Cr. 3. An introduction to the use of digital computers by using the language BASIC. Topics include an introduction to the development of algorithms and the design, debugging, and documentation of programs for elementary applications. This course is not intended for students with previous programming experience. Prerequisite: A satisfactory score on part (1) of the Placement Examination or successful completion of Math 10. May not be counted toward a major or minor in mathematics. Laboratory fee, $10.00.*

*A student who is formally registered for this course and subsequently withdraws from the course may not take the course the semester immediately following the term in which withdrawal occurred.
62. (Formerly 65.) Computer Science II. Each sem. Cr. 3. The study of models and techniques for implementing algorithms for intermediate level applications. Topics include the analysis of algorithms, string processing, recursion, simple data structures and external subroutines. Prerequisite: CS 61 or GE 12 or the equivalent. Laboratory fee, $5.00.

121. Introduction to File Processing and Information Retrieval. Sem. 1. Cr. 3. Fundamental file structures and processing algorithms. Sequential processing. The use of linked lists and trees for internal and external storage. The physical characteristics of bulk storage devices and their impact on file management. Prerequisite: CS 62. (Offered on sufficient demand.)

124. (Formerly 125.) Computer Organization and Programming. Sem. 2. Cr. 3. Fundamentals of the organization and structure of digital computers, data representations, machine architecture, assembly and systems language programming. Prerequisite: one of the following: CS 62, GE 169, EE 126, or Math 137. (Offered on sufficient demand.)

127. Data Structures and Systems Programming. Sem. 1. Cr. 3. A survey of algorithmic languages, their structure, interrelationship, and relation to problem classes. The design and manipulation of data structures. Topics in systems programming. Prerequisite: CS 124. (Offered on sufficient demand.)

128. Independent Study in Computer Science. Sem. 2. Cr. 2. The student is expected to exhibit ability in computer usage by defining a suitable computer application, developing necessary software using appropriate techniques, and preparing documentation for the use and support of the completed system. Prerequisites: CS 127 and consent of the instructor.

MUSIC

STAFF: Associate Professor Telschow (Chairman); Professors Elhig, Gehring, Powell1, and Weinhorst; Associate Professors Balko, Hannewald, Kroeger, and McCall; Assistant Professors Dersnah and Rose; Mr. Mann

Admission. A student who wishes to enroll in any of the degree programs in music must meet all the general requirements for admission to the College of Arts and Sciences (see page 55 of this bulletin). In addition, he/she must pass an entrance test in musicianship and applied music. Information concerning this test, which will be given prior to matriculation, may be obtained from the chairperson of the department.

Approval of Schedules. All candidates for the Bachelor of Arts degree taking a major or a minor in this department and all candidates for the Bachelor of Music and the Bachelor of Music Education degrees must have their schedules approved by the chairperson of the department at the beginning of each semester.

A student planning to teach in a particular state should consult the appropriate adviser of the Department of Education before deciding in which music curriculum to enroll.

Departmental Requirements. Regulations concerning student performance, concert attendance, ensemble participation, and other matters which concern majors and minors within the department are given in the Department of Music Student Handbook, available in the departmental office.

Special Seminars and Workshops. Visiting artists and lecturers are brought to the campus from time to time to conduct seminars and workshops in various fields of music. The Church Music Seminar, the High School Choral Festival, the High School String Festival, the Wind Clinic, and other such events give added breadth to the student's musical education through his/her observation of a skilled artist or conductor at work.

Bachelor of Arts. A candidate for this degree with a major in music must meet all the general requirements for the degree.

Major. A minimum of 36 credits in music. Courses must include Music 13, 14, 57, 58, 63, 64, 103, 104; Class Piano 9, 10, 11, 12; and 4 credits on the student's principal instrument. For the plan of study option a student must complete at least 8 credits on his/her principal instrument (in addition to class piano). The student must pass all the performance tests set by him/her by this department.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 18 credits in music constitutes a minor. Courses must include Music 13, 14, 57, 58, and six credits of applied music, including Class Piano 9 and 10. In addition, the student must pass all performance tests set for him/her by this department.

Bachelor of Music. To be eligible for this degree, a student must complete the required curriculum for the major area of concentration. In addition, he/she must pass all performance tests set for him/her by this department. He/she must earn a total of 134 credit hours for a major in church music and 128 credit hours for the remaining programs. He/she must have a standing of two (2.00) in all the work. The curricula are outlined below.

Two areas of concentration are offered the student majoring in church music: organ and voice. Each student will be expected, however, to acquire enough skill in the organ and choir training to assume a post as a qualified parish organist and choir director.

A. GENERAL EDUCATION REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion</td>
<td>9</td>
</tr>
<tr>
<td>Foreign Language (Course 20 or 30)</td>
<td>8</td>
</tr>
<tr>
<td>Literature Studies</td>
<td>4</td>
</tr>
<tr>
<td>History or Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral and Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Natural Sciences and Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>General Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

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B. MUSIC REQUIREMENTS:

1. Core Curriculum (for all students):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey of Music Literature 57, 58</td>
<td>4</td>
</tr>
<tr>
<td>Music Theory 13, 14, 63, 64</td>
<td>16</td>
</tr>
<tr>
<td>History and Literature of Music 103, 104</td>
<td>8</td>
</tr>
<tr>
<td>Basic Conducting 113</td>
<td>2</td>
</tr>
<tr>
<td>Music Theory 135, 136</td>
<td>6</td>
</tr>
<tr>
<td>Ensemble</td>
<td>8</td>
</tr>
</tbody>
</table>

44

1Sabbatical Leave, Academic Year 1977-1978.
### Program: Church Music History & Literature Composition

<table>
<thead>
<tr>
<th>Principal instrument:</th>
<th>Organ</th>
<th>Voice</th>
<th>2</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orchestration 112</td>
<td></td>
<td></td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Choral Conducting 114</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Service Playing 116</td>
<td>1</td>
<td></td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Pro-Seminar 121 or 123</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Improvisation 141, 142</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Hymnology 171</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>History of Church Music 174</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Independent Study 194</td>
<td></td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Piano* (or harpsichord)</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Organ (or harpsichord)</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Voice (may include Voice Class 39)</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total required for graduation</strong></td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>128</td>
</tr>
</tbody>
</table>

1Bachelor of Music Education. To be eligible for this degree, a student must complete the curriculum described below. In addition, he/she must pass all performance tests set for him/her by this department. Four areas of concentration are offered: a vocal concentration, a general concentration, an instrumental concentration, and an area concentration. The area concentration is designed for students who wish to prepare themselves for teaching in both the vocal and instrumental fields. A student must earn a total of 134 credit hours if the area of concentration is either vocal or general, and he/she must earn a total of 138 credit hours to complete the area concentration. He/she has a standing of two (2.00) in all the work.

*To include Class Piano 9, 10, 11, 12.
**Applied music must include at least six credits in keyboard instruments beyond Class Piano, and it must include a principal medium of at least eight credits.
***Recommended: a second foreign language, a course in non-Western studies.

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### Program: Applied Music

<table>
<thead>
<tr>
<th>Principal instrument:</th>
<th>Organ or Harpsichord</th>
<th>Piano</th>
<th>Voice</th>
<th>Orchestra or Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choral Conducting 114</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Language Diction 110, 111</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Pro-Seminar in Pedagogy of Music 123</td>
<td>8</td>
<td>24</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Piano* (or harpsichord)</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Organ (or harpsichord)</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Voice (may include Voice Class 39)</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td><strong>Principal orchestral instrument</strong></td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total required for graduation</strong></td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>128</td>
</tr>
</tbody>
</table>

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### B. PROFESSIONAL EDUCATION REQUIREMENTS:

- **Secondary Teaching; Principles and Methods 155**
- Foundations of Education 62
- Orientation to Secondary Teaching 105
- Psychological Foundations of Secondary Education 156
- High School Music Methods 191
- Reading in the Content Areas 174
- Supervised Teaching 157

**Total required for graduation:** 128

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### C. MUSIC REQUIREMENTS:

1. **Core Curriculum (for all majors)**
   - Class Piano 9, 10, 11, 12
   - Music Theory 13, 14, 63, 64
   - History of Music 103, 104
   - Basic Conducting 113
   - **Total required for graduation:** 128

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### 2. Other Requirements:

- **Principal Performing Area (Instrument or Voice)**
  - Only if piano or organ is the principal.
- **Choral Conducting 114**
  - 2
- **Instrumental Conducting 125**
  - 2
- **Orchestration 112**
  - 2
- **Elementary School Music Methods 109**
  - 3
- **Jr. Hi/Middle School General Music 105**
  - 2

**Total required for graduation:** 134

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*A General Studies course must be included in the Social Science category.*
Master of Arts in Liberal Studies. The requirements for this degree are given on page 47 of this catalog. Within this framework, the Department of Music offers a concentration in the field of music. While the details of the program for a music concentration are worked out in a conference between the student and the adviser, the following guidelines are announced:

1. Each student will be expected to take the Seminar in Music History 308 at least twice (six credits).
2. No more than ten credits in applied music are ordinarily counted toward degree requirements. This restriction does not apply to credits in composition.
3. No more than fifteen credits in a combination of applied music and composition are ordinarily counted toward degree requirements.
4. Any student who has had no more than sixteen credits of undergraduate theory will be expected to take Theory 235 or 236.

Undergraduate and Graduate Credit.

THEORY, HISTORY, AND METHODS.

1. Introduction to Music. Each sem. Cr. 3. A study of the materials of music and their use in the basic forms and styles of musical art. This course may be used to fulfill the Literature or Fine Arts Requirement.

13. Music Theory. Sem. 1. 3+2, Cr. 4. A course in the fundamentals of music which includes an introduction to sight singing, dictation, creative writing, counterpoint, part writing, form and analysis, instrumentation, and orchestration. Prerequisite or concurrent registration: Class Piano 9.

14. Music Theory. Sem. 2. 3+2, Cr. 4. A continuation of Music 13. Prerequisites: Music 13, Class Piano 10 (Class Piano 10 may be taken concurrently.)

57. (Formerly 7.) Survey of Music Literature. Sem. 1. Cr. 2. An introduction to the literature of music. Examples demonstrating various forms and styles are heard and discussed. This course, together with Music 58, may be used to fulfill the Literature or Fine Arts Requirement. Prerequisite: Music 14.

58. (Formerly 8.) Survey of Music Literature. Sem. 2. Cr. 2. A continuation of Music 57. This course, together with Music 57, may be used to fulfill the Literature or Fine Arts Requirement. Prerequisite: Music 14.

63. Music Theory. Sem. 1. 3+2, Cr. 4. A continuation of Music 14 with special emphasis on the harmonic developments of the Classic and Romantic periods. Prerequisites: Music 14, Class Piano 11 (Class Piano 11 may be taken concurrently.)

64. Music Theory. Sem. 2. 3+2, Cr. 4. A continuation of Music 63 with special emphasis on tonal counterpoint. Prerequisites: Music 63, Class Piano 12 (Class Piano 12 may be taken concurrently.)

103. History and Literature of Music. Sem. 1. 3+3, Cr. 4. The development of musical thought from the ancient world through the early Christian era, the Middle Ages, the Renaissance, and the Reformation to the middle of the 17th century. This course may be used to fulfill the Literature or Fine Arts Requirement. Prerequisites: Music 57, 58, 14, and junior standing.

104. History and Literature of Music. Sem. 2. 3+3, Cr. 4. The development of musical thought and literature from the middle of the 17th century to the present. This course may be used to fulfill the Literature or Fine Arts Requirement. Prerequisite: Music 103.

105. Junior High/Middle School General Music. Cr. 2. A study of materials, methods of procedure, supervision, and psychological and physical aspects of teaching general music in the junior high/middle school. Field trips are a requirement of this course.

107. Music Methods for The Elementary Teacher. Cr. 3. A study of materials, methods, and techniques of general classroom music for the primary grades. This course is open only to elementary education majors and may not be counted toward a major or minor in this department.

109. Elementary School Music Methods. Sem. 1. Cr. 2-3. A study of materials, methods of procedure and supervision for primary grades. Field trips are a requirement of this course. This course may not be counted toward a major or minor in this department. Prerequisite: Music 14.

110. Language Diction. Sem. 1. Cr. 1. This course gives the student a practical knowledge of pronunciation used in singing the four principal languages in music literature: Italian (Latin), French, German, and English. (Offered in 1977-1978 and in alternate years thereafter.)

111. Language Diction. Sem. 2. Cr. 1. A continuation of Music 110. Prerequisite: Music 110. (Offered in 1977-1978 and in alternate years thereafter.)


113. Basic Conducting. Sem. 1. Cr. 2. An introduction to conducting including a study of score reading, beat patterns, acoustics, and interpretive principles. Prerequisite: Music 14 or consent of the instructor.


115. Service Playing. Sem. 1. Cr. 1. A practical course in the function of the organ in the church service emphasizing the playing of hymns, accompanying of the music of the liturgy, and improvisation. Prerequisites: Music 64 and senior standing.

120. Music in History. Sem. 2. Cr. 3. A study of music as a cultural expression in the history of Western civilization. The major stylistic traditions of musical art. This course may be used to fulfill the General Studies Requirement. It is not open to music majors or minors. Prerequisite: junior or senior standing.

121 (221). Pro-Seminar in Music. Sem. 1. Cr. 2-3. An intensive study of a limited area in the history or theory of music. This course may be repeated for credit. Prerequisite: consent of the chairperson of the department.

123 (233). Pro-Seminar in Pedagogy of Music. Sem. 1. Cr. 2. A consideration of the problems of teaching basic musicianship at all levels. Special attention will be given to the adapting of basic principles to the media of most interest to the members of the pro-seminar. Prerequisite: consent of the chairperson of the department. (Offered in 1978-1979 and in alternate years thereafter.)


132. Workshop in Music Education. Cr. 1-2. A study of current topics in music education in summer workshop sessions of one or two weeks.


136 (236). Music Theory. Sem. 2. Cr. 3. A study of 20th-century music techniques. Creative projects and analysis form an integral part of the course. Prerequisite: Music 64.

141 (241). Advanced Keyboard Harmony and Improvisation. Sem. 1. Cr. 2. Practical keyboard work including harmonization of melodies, realization of figured basses, transposition, modulation, and improvisation. Open only to organ and piano majors with at least junior standing.

174. History of Church Music. Sem. 1. Cr. 2. A study of the development of church music from the earliest history of the Church in the Old Testament to the present, with special emphasis on the period from Luther to Bach. Prerequisites: junior standing and consent of the chairperson of the department.


194. Independent Study in Music. Each sem. Cr. 3. A course of study arranged by the student with the consent of and under the supervision of a faculty adviser. The study will result in a written essay on a topic approved by the adviser. Prerequisites: Music 64 and 104.

Graduate Credit.

308. Seminar in Music History. Sem. 2. Cr. 3. A study in depth of a specific period or problem in the history of music. Topics covered will change from semester to semester. This course may be repeated for credit. Prerequisites: Music 64 and 104.

310. Problems in Music Education. Cr. 3. A concentrated study of specific areas of music education. Topics to be covered will change from semester to semester. This course may be repeated for credit if the topics are different. Prerequisite: consent of the chairperson of the department.

Applied Music.

Note: Non-music majors who are candidates for degrees in the College of Arts and Sciences are restricted to 16 credits toward graduation in applied music, of which no more than 4 may be in ensemble music.

A. PRIVATE INSTRUCTION.*

One-half hour per week of private instruction plus three hours of practice per week for a period of one semester gives one semester hour of credit. One-half hour per week of private instruction plus six hours of practice per week for a period of one semester gives two semester hours of credit. Forty-five minutes of private instruction and nine hours of practice per week gives three semester hours of credit. Private instruction is supplemented by repertoire classes in the various media that meet one 50-minute class period per week.

Undergraduate Credit.

100. Each sem. Cr. 1-3. Open to all students in the University, including the Evening Division. Beginning students in any medium should usually register for only one credit. Registration for three credits is available only to candidates in the Bachelor of Music program in their principal applied music medium.

Graduate Credit.

200. Each sem. Cr. 1-2. Open to qualified graduate students who have good reason to include such study in their program. Prerequisite: approval of the chairperson of the department. Such approval is generally granted only to students that have the equivalent of an undergraduate major in music.

Graduate Credit.

305. Each sem. Cr. 2-3. Open only to graduate students holding a Bachelor of Music degree with a major in the given instrument or having the equivalent level of performing ability. Admission by audition only and with the approval of the chairperson of the department.

Voice Piano and Jazz Piano Harpsichord (by audition only) Organ (by audition only) Violin Viola Violoncello Composition. A program of study dealing creatively with the problems of musical form. Prerequisites: consent of the instructor and the chairperson of the department.

"See page 23 for appropriate fees.

B. CLASS INSTRUCTION.

Undergraduate Credit.

9, 10, 11, 12. Class Piano. Each sem. Cr. 1. A practical course in which basic musicianship is developed through work at the keyboard. Harmonization and improvisation are emphasized. The material is designed to correlate closely with Music Theory 13, 14, 63, 64. Each course is a prerequisite for the next course in the sequence. Concurrent enrollment in Piano 100 is limited to two credits for piano majors in the B.M. curriculum and to one credit for all other students.

31. Stringed Instrument Class (violin, viola). 0+2, Cr. 1. Violin and viola are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

32. Stringed Instrument Class (cello, bass viol). 0+2, Cr. 1. Cello and string bass are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

33. Single-Reed Instrument and Flute Class. 0+2, Cr. 1. Clarinet, saxophone, and flute are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

34. Double-Reed Instrument Class. 0+2, Cr. 1. Oboe and bassoon are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

35. Brass Instrument Class. 0+2, Cr. 1. Trumpet, French horn, trombone, baritone horn, and tuba are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

37. Percussion Instrument Class. 0+2, Cr. 1. Percussion instruments are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

39. Voice Class. Sem. 2. 0+2, Cr. 1. This course is designed to give the student a fundamental technical performing and teaching knowledge of the vocal instrument.

C. INSTRUCTION IN ENSEMBLE MUSIC.

Note: Non-music majors who are candidates for degrees in the College of Arts and Sciences are restricted to 16 credits toward graduation in applied music, of which no more than 4 may be in ensemble music.

Instruction in one of the following ensembles for a period of one semester gives one semester hour of credit. If a student has earned eight credits in ensemble music, any additional enrollments are graded on a Satisfactory/Unsatisfactory basis.

All ensemble courses are available for graduate credit on either the 200 or 300 level. Enrollment is limited to students who have specialized training and background to participate in the ensemble. All skills (or in some special capacity such as assistant conductor, sectional leader, or project director) to be determined by the instructor of the ensemble and with approval of the chairperson of the department.

Undergraduate and Graduate Credit.

150, 250, 350. Choir. Admission by audition only. This includes University Choir, University Choral Society, Schola Cantorum, and Chamber Choir.

152, 252, 352. University Band. Admission by audition only.

154, 254, 354. University Orchestra. Admission by audition only.

156, 256, 356. Opera Workshop. Admission by audition only.

158, 258, 358. Chamber Music. Admission by approval of the chairperson of the department. This credit may be earned by participation in the Collegium Musicum.
PHILOSOPHY

STAFF: Associate Professor J. Smith (Chairman); Professors Klein and Scheimann; Visiting Lecturer Krause

Major. A minimum of 27 credits in philosophy. Courses must include Philosophy 3, 51, 53, and 127. The remainder of a student's study of philosophy will be selected in consultation with the chairperson of the department, taking into account one's entrance into law school, theological seminary, or graduate philosophy. Majors who are preparing to study philosophy in graduate school are advised to complete a minimum of 36 hours in philosophy. Recommended plans of study are available at the departmental office, Meier Hall 114.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 12 credits in philosophy constitutes a minor. Courses must include Philosophy 3, 51, and any one of the following: 52, 53, 54.

Approval of Schedules. All students taking a major or a minor in the Department of Philosophy must have their schedules approved by the chairperson of the department at the beginning of each semester.

Prerequisites. Courses numbered under 100 have no prerequisites. Courses numbered over 100 have, as prerequisite, any one of the courses numbered under 100 or Philosophy 101 taken in Christ College or consent of the chairperson of the department. The department urges, but does not require, that majors and others planning to take 100-level courses take Logic (Philosophy 3) and at least one of the History of Philosophy courses (51, 52, 53, or 54) prior to taking upper division courses.

Undergraduate and Graduate Credit.

1. Introduction to Philosophy: Social Philosophy. Each sem. Cr. 3. A philosophical introduction to problems of social thought and action. The course will emphasize the problem of relating one's individual moral values to those of society through a study of some of the major works in social philosophy.

2. Introduction to Philosophy: Fundamental Questions. Sem. 1 or 2. Cr. 3. A general introduction to philosophy in which the most fundamental questions raised by both ordinary persons and philosophers are examined and explored. Some of the topics usually discussed are the nature of reality, the foundation of knowledge and values, the nature of humankind and the relationship between faith and reason.

3. Introduction to Philosophy: Logic. Each sem. Cr. 3. An introduction to formal logic in which truth-functional logic and elementary quantification theory are the primary topics. The traditional logic of the syllogism will be studied as one part of contemporary logic. Some consideration will be given to the application of logic in the formal analysis of arguments.

51. History of Philosophy I: Ancient Philosophy. Sem. 1. Cr. 3. An approach to the philosophy of ancient Greece and Rome which emphasizes their systematic character and their current relevance. Primary documents will be read throughout.

52. History of Philosophy II: Medieval Philosophy. Sem. 2. Cr. 3. A tracing of basic themes in the great philosophies of the Western world from Plotinus to William of Ockham. Primary documents will be read throughout.

53. History of Philosophy III: Early Modern Philosophy. Cr. 3. An introduction to basic themes in European philosophy from Hobbes through Hume. Primary documents will be read throughout.

54. Studies in the History of Modern Philosophy. (Formerly History of Philosophy IV.) Cr. 3. A study of one or more philosophical traditions in the 18th, 19th and 20th centuries beginning with Kant. Topics will be announced prior to preregistration and may include studies such as Kant and his interpreters, German and British idealism, positivism and the analytic tradition, or American philosophy. This course may be taken more than once if the topics are different.

55. Non-Western Philosophy. Cr. 3. An introduction to some themes in the great philosophies of the non-Western world. A major part of the semester will be devoted to the analysis of important documents.

105. Science, Technology, and Values. Cr. 3. A multifaceted study of the origins and role of modern technology. Questions raised include: What makes technology possible? What is the relationship of technology to science? How do the presence of science and technology affect a society's values? May be used to fulfill the General Studies Requirement.

110. Philosophy of Science. Cr. 3. A systematic approach to the philosophical problems involving the concepts, methodologies, and theories of physical and biological sciences, leading toward an interpretation of science. May be used to fulfill the General Studies Requirement.

112. Philosophy of Religion. Cr. 3. A philosophical analysis of some of the beliefs, concepts, and problems involved in one or more of the major religious traditions. May be used to fulfill the General Studies Requirement.

121. Metaphysics. Cr. 3. An examination of traditional and contemporary metaphysical topics, such as ontology, appearance and reality, persons, the mind-body problem, the analytic-synthetic distinction, the private-language problem.

123. Ethics. Cr. 3. A study of the most significant and influential ethical theories which have been advocated in the modern era with special emphasis given to the important problems which have been debated by ethicists such as the distinction between facts and values, the meaning of moral statements, and the nature of moral rules.

127. Theory of Knowledge. (Formerly Epistemology.) Cr. 3. An examination of some topics in traditional and contemporary theories of knowledge such as skepticism, perception, memory, belief, and truth.

129. Symbolic Logic. Cr. 3. A study of quantification theory, including the concepts of proof, consistency, and completeness, and topics in logical theory. (Note: Philosophy 3, or its equivalent, will be presupposed.)

144. Existentialism. Cr. 3. An examination of some of the major works of 19th and 20th century existentialists and their approach to philosophical problems.

146. Analytic Philosophy. Cr. 3. An examination of some of the works of contemporary British and American "analytic philosophers" and their approach to philosophical problems.

190 (290). Philosophical Topics. Cr. 3. An examination of the works of one major philosopher, such as Kant or Wittgenstein; or of a single philosophical problem area such as scientific explanation or free action; or of a single philosophical approach such as Positivism or Pragmatism. This course may be taken more than once if the topics are different.

193. Independent Projects. Cr. 1-3. Students may undertake independent study of some person, problem, theme, etc., under the supervision of some member of the philosophy department.

Consult the Philosophy Department Bulletin published by the department each semester or the University's Advanced Course Selection Guide to ascertain when any particular course will be offered. The bulletin lists departmental offerings for the succeeding two semesters and gives detailed descriptions of each course listed for preregistration. Copies are available at the departmental office and at every registration.
PHYSICAL EDUCATION

STAFF: Professor Brown (Chairwoman); Professors Bauer and Koenig; Associate Professor Amundson; Assistant Professors Koch and Peterson; Part-time Assistant Professors Drinhan and Rochitiz; Adjunct Instructors Harms and Howe.

Degree. Completion of the degree requirements of the College of Arts and Sciences with a major in physical education leads to the degree of Bachelor of Science in Physical Education.

Major. A minimum of 24 credits in physical education. Majors must also complete Biology 50 and 115 and Chemistry 43. Substitution for any of these courses may be made only with the permission of the chairperson of the department.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 12 credits in physical education constitutes a minor.

Plan of Study. Students may elect to select a plan of study which may lead to a specialty in other areas related to physical education.

Approval of Schedules. All students taking a major or minor in the department and all students planning to gain certification in physical education must have their schedules approved by the chairperson of the department at the beginning of each semester, beginning with their freshman year.

*Basic Courses in Physical Education. Two credit hours in physical education earned in course 10 are required for a bachelor's degree offered by the University. Not more than four credits earned in course 10 may be counted toward any degree. Courses are presented in various combinations and organizational structures. One full credit hour is offered for each full semester of class work. S/U grades are optional in all classes.

Undergraduate and Graduate Credit.

10. Activities. Each sem. 0-2. Cr. 1. Individual, dual, team physiological stress activities are presented in various combinations. May be repeated but the activity offerings within the course may not be repeated for credit. An independent study may be taken in this area with permission of the chairperson of the department.

ADVANCED PROGRAM.

30. Independent and Group Study. Each sem. Cr. 1. A student or group of students may elect to develop a plan of study to investigate in greater depth any area of physical education or any related discipline. May be repeated for credit.

ACTION NATURE OF HUMAN EXISTENCE.

The study of human, physical, psychological, sociological development from the perspective of ACTION—the significance of movement as a facet of growth and development.

PHYSIOLOGICAL—STRUCTURAL BASIS OF MOVEMENT.

40. The Structure and Function of Movement. Each sem. 2-2. Cr. 3. A study of the structure and function of the body—how it affects and is affected by movement.

41. The Body and Stress. Each sem. 2-2. Cr. 3. A study of the effects of stress and injury on the body and the significance of body function in relation to stress.

42. Practicum in Body and Stress. Each sem. Cr. 1. The practical application of techniques useful in dealing with stress situations which occur in activity. Prerequisite: Physical Education 41.

*Anyone who has served in the Armed Forces for at least one year is exempted from this requirement, except a National Guard member.
191. The Teaching of Physical Education. Each sem. Cr. 2. (See Education 191.) This course is designed for observation and assisting in physical education classes and will be presented in various organizational structures. This course may not be counted toward a major or minor in physical education. Prerequisite: admission to Supervised Teaching.

PHYSICS

STAFF: Professor Armin Manning (Chairman); Professors Naumann and Shirer; Associate Professor Koetke; Assistant Professor Scheiderer

Major. A minimum of 28 credits in physics. Courses must include Physics 76, 102, 110, 111, 121, 122, 151, 152, 193, and 195.

One year of chemistry is strongly recommended. Students preparing for graduate work should also take Physics 107, 130, 183, 187, and Mathematics 184.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 16 credits in physics constitutes a minor. Physics 110 and 111 must be included.

Approval of Schedules. All students taking a major or minor in this department and all students planning to teach physics must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate Credit.

47. Essentials of Physics. Sem. 1. 3 + 3, Cr. 4. The basic concepts of physics are developed from experiment and logic rather than mathematical analysis. Specific topics included are: space, time, and motion; energy; conservation laws; heat; electricity; and magnetism. Laboratory work is part of this course. Laboratory fee, $15.00. Not open to students who have taken Physics 77 or 78.

48. Essentials of Physics. Sem. 2. 3 + 3, Cr. 4. This course is a continuation of Physics 47. It includes the study of optics, wave phenomena, radioactivity, and modern physics. Laboratory fee, $15.00. Not open to students who have taken Physics 77 or 78.

49. Musical Acoustics. (Formerly Acoustics.) Sem. 1. 3 + 2, Cr. 4. A study of the physical nature of sound waves, the production and measurement of sound, and the physical and psycho-physical basis of hearing and music. Although this course is of general interest, it is also suitable for music or other arts majors toward the fulfillment of their natural science requirement. Laboratory fee, $15.00.

76. Electrical Measurements. Sem. 2. 0 + 3, Cr. 1. Laboratory training in the use of modern electrical and electronic measuring instruments. Laboratory fee, $15.00.

77. Principles of Physics. Sem. 1. 3 + 3, Cr. 4. An introductory course in mechanics and heat designed for pre-medical, physics, and chemistry students, including a study of the classical laws of motion and energy transfer as well as an introduction to the theory of relativity. The mathematical level of this course is primarily that of simple algebra, but relations between physics and calculus are discussed when appropriate, so a student should have taken a course in differential calculus or be taking one concurrently. Laboratory fee, $15.00. Not open to students who have taken Physics 47 or 48.

78. Principles of Physics. Sem. 2. 3 + 3, Cr. 4. A continuation of Physics 77 which treats electricity, magnetism, wave motion, light and sound. Prerequisite: Physics 77 or advanced placement by permission of the chairperson of the department. Laboratory fee, $15.00. Not open to students who have taken Physics 47 or 48.

80. Electronics and Scientific Instrumentation. (Also offered as Chemistry 80 and EE 80.) Sem. 2. 2 + 3, Cr. 3. Modern electronic principles and devices are studied, with applications to scientific instrumentation. Laboratory experience with modern instruments is emphasized, and simple troubleshooting techniques are taught. Prerequisites: Physics 77 or concurrent enrollment and sophomore standing. Laboratory fee, $15.00.

81. Descriptive Astronomy I. 2 + 0, Cr. 2. A study of the principles of astronomical observation, the tools and methods employed by the modern astronomer to gain information and knowledge concerning the solar system. Lecture time will occasionally be used for observation of the planets and predetermined constellation work. Elementary mathematics is required. This course, together with Physics 82, may be used to fulfill natural science general education requirements.

82. Descriptive Astronomy II. 2 + 0, Cr. 2. A continuation of Physics 81. A study of the stellar system in general. Stellar classification; the content and evolution of stars, galaxies, and the universe. Some emphasis will be placed on the methods used to obtain information necessary to construct a model universe. As in Physics 81, lecture time will occasionally be replaced by observation. Only elementary mathematics is required. Physics 81-82 may be used to fulfill natural science general education requirements.

83. Observational Astronomy. Each sem. 0 + 3, Cr. 1. Practical experience in the application of photographic and photometric techniques to astronomical problems, stellar magnitudes, spectral classification, variable stars and satellites. Prerequisites: Physics 81 and 82. Laboratory fee, $15.00.

102. (Formerly 71.) Analytical Mechanics. Sem. 2. 4 + 0, Cr. 4. A course utilizing vectors and the calculus to study the forces and fields of mechanics on a mathematically rigorous basis. Among the specific areas included are: Newton's laws of motion; linear and plane motion of a mass point; free, damped and driven oscillators; conservation laws; central force motion; dynamics of systems of particles; some rigid body motion. Prerequisites: Physics 78 and Mathematics 77. First or advanced placement by the chairperson of the department.

107. Optics. Sem. 2. 3 + 0, Cr. 3. This course covers the basic phenomena of geometrical and physical optics. Topics may include: lens theory, selected optical instruments, interference, diffraction, polarization, double refraction, radiometry, light scattering, lasers, and holography. Prerequisite: Physics 78.

110. Introductory Modern Physics. Sem. 1. 3 + 0, Cr. 3. An introduction to atomic and nuclear physics with emphasis on the hydrogen atom, special relativity, the solid state, neutron physics, accelerators, radioactivity and high energy physics. Prerequisite: Mathematics 77. (Mathematics 77 may be taken concurrently.)

111. Introductory Modern Physics Laboratory. Sem. 1. 0 + 3, Cr. 1. This course must be taken concurrently with Physics 110. Laboratory fee, $15.00.

121. Experimental Physics. Sem. 1. 0 + 3, Cr. 1. Experiments in modern physics and radioactivity. A 300 kev positive ion accelerator and a scattering chamber are used in this course. Prerequisites: Physics 110 and Mathematics 77. Laboratory fee, $15.00.

122. Experimental Physics. Sem. 2. 0 + 3, Cr. 1. Students are required to perform, and to pursue the theory for, selected experiments in advanced mechanics, optics, heat, spectroscopy, electromagnetism, etc. Prerequisites: Physics 110 and Mathematics 77.

130. Thermal Physics. Sem. 2. 3 + 0, Cr. 3. A lecture and problem course covering the basic principles of thermodynamics, kinetic theory, and elementary statistical mechanics. Among the topics included are: equations of state; laws of thermodynamics; concepts of temperature, reversibility, and entropy; kinetic theory; transport phenomena; introductory probability theory; statistical description of systems of particles. Prerequisite: Physics 78.

151. (Formerly 74.) Electricity and Magnetism. Sem. 1. 3 + 0, Cr. 3. A study of electric and magnetic fields, their sources and interactions in empty space and in dielectric and magnetic media. Prerequisites: Physics 102 and Mathematics 104 or advanced placement by the chairperson of the department.

152. Electromagnetic Fields and Waves. Sem. 2. 3 + 0, Cr. 3. The study of Maxwell's equations and electromagnetic fields using vector analysis and potential theory, with application to electromagnetism, gravitational, thermal and acoustic wave motion. Prerequisites: Physics 151 and Mathematics 104 or consent of the instructor.
Science 1, 2, and 41 or 44 or 65 must be at the beginning of each semester.

Approval For information concerning the Washington Semester see page 92. For information concerning the Semester on the United Nations see page 93.

POLITICAL SCIENCE

STAFF: Assistant Professor Freie (Chairman); Professor Huegli; Associate Professors Balkema and Trost; Assistant Professors Baas and Combs

Major. A minimum of 30 credits in political science. Courses must include Political Science 1, 2, 41 or 44 or 65, 53, 54, and 180 or 196.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 18 credits in political science constitutes a minor. Political Science 1, 2, and 41 or 44 or 65 must be included.

Approval of Schedules. Students taking a major or a minor in this department must have their schedules approved by the chairperson of the department at the beginning of each semester.

For information concerning the Washington Semester Program see page 92. For information concerning the Urban Affairs Semester Program see page 82. For information concerning the Semester on the United Nations see page 93.

Undergraduate and Graduate Credit.

1. Introduction to Political Science. Each sem. Cr. 3. An introduction to some basic concepts, approaches, and methods in the discipline of political science.

2. The Government of the United States. Each sem. Cr. 3. A study of the structure and function of the federal system, with emphasis on the national government. (Recommended for general education requirement.)

3. The Field of Law. Sem. 1. Cr. 1. A course designed to help students prepare for the professional study of law. Open to all students. (This course may not be counted toward a major or minor in political science.)

41. State and Local Politics in the United States. Each sem. Cr. 3. Comparative analysis of state and local political institutions in the United States. Emphasis to be placed on the contemporary role of states and localities in the development and implementation of public policies.

42. Comparative Politics. Each sem. Cr. 3. Comparative study of Western and non-Western political systems. Includes examination of conceptual frameworks for comparative analysis.

Note: The following courses are not open to freshmen.

53. Classical Political Theory. Sem. 1. Cr. 3. An intense investigation of the major formulations and problems of political thought as constructed by political philosophers from the Greeks through the nineteenth century.

54. Contemporary Political Theory. Sem. 2. Cr. 3. An intense investigation of the major, empirical, and normative formulations of politics in the twentieth century.

65. International Relations. Sem. 1. Cr. 3. The fundamentals of international politics and international organization, particularly the United Nations and its specialized agencies.

153. Politics of Industrialized States. Sem. 2. Cr. 3. A study of political institutions and values in industrialized world. Attention will primarily be directed at Western and Eastern Europe, alternately. Prerequisite: Political Science 44 or consent of the chairperson of the department.

154. Politics of Developing States. Each sem. Cr. 3. A study of the governments and political problems of selected newly-independent, under-developed states. Areas given in a semester will vary across Africa, Latin America, the Middle East, and the Far East. Prerequisite: Political Science 44 or consent of the chairperson of the department.

155 (255). Problems in State and Local Politics. Sem. 1. Cr. 3. A study in depth of important contemporary problems on the state or municipal levels in the United States. Given in a semester will vary across Africa, Latin America, the Middle East, and the Far East. Prerequisite: Religious Science 44 or consent of the chairperson of the department.

156 (256). Problems in American Politics. Either sem. Cr. 3. An intensive study of topics in the process, policies, and functions of the American political system (e.g., Political Parties). Prerequisite: Political Science 24 or consent of the chairperson of the department.

157. Problems in International Relations. Sem. 2. Cr. 3. An intensive study of topics in international relations (e.g., International Organizations). Prerequisite: Political Science 65 or consent of the chairperson of the department.

158. Problems in Political Philosophy. Each sem. Cr. 3. The study of one or more specific problems or philosophers in modern political philosophy. Prerequisite: Political Science 53 and 54 or consent of the chairperson of the department.

159. Problems in the Judicial Process. Sem. 2. Cr. 3. The study of selected topics relating to the judicial process, Constitutional Law, and other socio-legal problems. Generally the course will focus on issues relating to the courts as a political system, influences on judicial decisions, and the import of court decisions. Prerequisite: Political Science 2.

160. Constitutional Law I. Sem. 1. Cr. 3. An analysis of Supreme Court decisions relating to judicial review, the power of national and state governments, federalism, the separation of powers, Presidential and Congressional power, and related topics. Prerequisite: Political Science 2.

*Credit for Political Science 2 may be earned through the College Level Examination Program (CLEP) subject examination in American Government.
161. Constitutional Law II. Sem. 2. Cr. 3. A continuation of Political Science 160 focusing on Supreme Court decisions relating to the Bill of Rights, equal protection, due process, and related topics. Prerequisite: Political Science 160 recommended but not required.

162. Public Administration. Sem. 1. Cr. 3. An introduction to the basic principles of administrative organization and management in government. Prerequisites: Political Science 2 and junior standing.


175. Seminar in Political Science. Either sem. Cr. 2. These are full- or half-semester courses covering a variety of subject areas, with subtitles and content dependent upon instructor choice and student interest. They will be of two types, and labeled accordingly: (a) reading and discussion seminars, or (b) seminars with major papers.

180. Teaching. This course may not be counted toward a major or minor in political science.

Political Novel. May be used to fulfill the requirements of the major with junior standing and departmental staff. A written report is required. Prerequisites: major with junior standing and consultation with a program of readings and/or a research project in his/her area of interest. Designed for majors but open to other students. Political Science 180 is recommended for majors who take this course.

Graduate Credit.

209. Basic Political Issues. Each sem. Cr. 3. A course devoted to detailed examination and consideration from many angles of a specific fundamental political problem. Copious required readings. Discussions conducted by members of the class.

320. Readings and Research in Political Science. Each sem. Cr. 3. In consultation with a faculty member, the student selects a program of readings and/or a research project in his/her area of interest.

PSYCHOLOGY

STAFF: Associate Professor Millar (Chairman); Professor Walschmidt; Associate Professors Harris, Ikeda, and Karveles; Assistant Professors Fryrear and Karpicke; Mrs. Mayes

Major. A minimum of 27 credits in psychology. Courses must include Psychology 51 or 52, and 100. In addition a minimum of 7 credits must be taken in the 130-139 experimental psychology courses, one of which must be taken with a laboratory; a minimum of 3 credits must be taken in the 140-149 developmental psychology courses, and a minimum of 3 credits must be taken in the 150-159 clinical-counseling psychology courses. Special topic courses may be used to fulfill some of these requirements with the consent of the department chairperson. All programs must be developed in consultation with, and approved by, an assigned departmental faculty adviser. Consult with the department chairperson for additional information.

Students intending to pursue a professional career in psychology are advised that the master's degree constitutes minimum training. Prospective graduate students are urged to develop their programs in close consultation with their departmental adviser so appropriate courses from related disciplines may be taken to enhance their preparation for graduate training.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 18 credits in psychology constitutes a minor. Courses 51 or 52, and 100 must be included. All programs must be developed with the assistance of an assigned department faculty adviser. Consult with the department chairperson for additional information.

Approval of Schedules. All students taking a major or a minor in psychology must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate and Graduate Credit.

*51. General Psychology. Each sem. Cr. 3. An introduction to the general field of psychology with special emphasis upon the scientific study of behavior. (For behavioral and social science credit only. Not open to students who have taken 52.)

52. General Experimental Psychology. Each sem. Cr. 4. Identical with Psychology 51, with the exception that laboratory work is conducted in selected problem areas. (For natural science credit only. Not open to students who have taken 51.) Laboratory fee, $10.00.

Note: Psychology 51 or 52 is a prerequisite for all of the following courses.

53. Abnormal Psychology. (Formerly 130.) Each sem. Cr. 3. An analysis of psychopathology within the framework of theory and research.

54. Social Psychology. (Formerly 128.) Each sem. Cr. 3. A study of social influence on the psychological functioning and behavior of the individual.

55. Industrial Psychology. (Formerly 127.) Sem. 1. Cr. 3. This course deals with applications of psychological principles, techniques, and theories to the worker and work environment. Special emphasis is placed on issues of satisfaction, motivation, and productivity.

56. Psychology of Personality. (Formerly 152.) Sem. 2. Cr. 3. An introduction to various theories of personality, with emphasis on their implications for current psychological applications and research.

100 (200). (Formerly 131.) Statistical Methods. Each sem. Cr. 3. An introduction to the fundamentals of descriptive and inferential statistics for the behavioral sciences.


135. Sensation and Perception. Sem. 2. Cr. 3, or 3+3, Cr. 4. A study of mechanisms and models underlying visual perception. Supervised individual experimentation. Laboratory optional. Prerequisite: Psychology 100. Laboratory fee, $10.00.

136. Conditioning and Learning. Sem. 1. Cr. 3, or 3+3, Cr. 4. An introduction to the basic principles of conditioning and learning. Focus is on empirical data and theories of reinforcement, extinction, memory, etc., with representative laboratory experiments in selected areas. Prerequisite: Psychology 100. Laboratory fee, $10.00.

140. (Formerly 125.) Human Growth and Development. Each sem. Cr. 3. Life-span approach to human growth and development involving maturational, cognitive and behavioral changes with age. Major empirical findings will be reviewed with attention to current theoretical, methodological and practical issues.

*Credt for Psychology 51 may be earned through the College Level Examination Program (CLEP) subject examination in General Psychology.
141. (Formerly 126.) Adolescent Psychology. Cr. 3. Analysis of the maturational, cognitive and behavioral changes associated with adolescent development, with special attention to social relations.

142 (242). (Formerly 177-277.) Psychology of Childhood. Each sem. Cr. 3. Study of the maturational, cognitive and behavioral changes associated with the development of the child, with special attention to social relations. Prerequisite: 6 hours of psychology or consent of the instructor.

152 (252). (Formerly 185-285.) Behavior Modification. Each sem. Cr. 3. The application of learning principles to the modification of human behavior. Discussions will include ethical issues and current research relating to behavior management techniques as utilized in self control, education, institutions, business, social, personal and family interventions. Prerequisite: 6 hours of psychology or consent of department chairperson. Course intensification option to undergraduates: 1 credit.

153 (253). (Formerly 180-280.) The Exceptional Child. Each sem. Cr. 3. Analysis of the impact of various perceptual, cognitive and physical handicaps upon the child. Attention will also be given to the study of the gifted, creative child. Prerequisite: one of the developmental psychology courses (140-149) or educational psychology or consent of the instructor.


155 (255). (Formerly 190-290.) Methods of Clinical Psychology. Sem. 2. Cr. 2-4. Cr. 3. A study of the techniques of diagnosis and therapy employed in the clinical setting. Supervised practice in testing and evaluation. Prerequisite: Psychology 53 or consent of the chairperson of the department. Laboratory fee, $5.00. Course intensification option for undergraduate students: 1 credit.

160. General Studies in Psychology. Sem. 2. Cr. 3. The study of current topics in psychology of interest to faculty and students. Frequently these topics may require the student to have specific prerequisites. Topics will be announced in advance. This course may be used to fulfill the General Studies Requirement. Prerequisite: consent of instructor or department chairperson.

161. (Formerly 160.) Contemporary Theories. Sem. 1. Cr. 3. A systematic analysis of contemporary psychological theories with special reference to their historical origins in science, philosophy, and the classical systems of psychology. Prerequisite: 6 hours of psychology.

162. Psychology Practicum. Sem. 2. Cr. 3. A small number of students may participate in psychological laboratory research or work in a social agency under the supervision of a specified faculty member involving that particular faculty member's area of expertise. Practicum will concentrate in such areas as experimental psychology, developmental psychology, clinical-counseling, and behavior modification. Prerequisites will vary depending upon the practicum area announced. Consent of instructor required.

165 (265). Special Topics in Psychology. Each sem. Cr. 2-3. Selected topics based on special interest areas of students and faculty. Topics will be announced in advance. Prerequisite: consent of the instructor or chairperson of the department.

165. Independent Research in Psychology. (Formerly Special Problems in Psychology.) Each sem. Cr. 1-3. Individual research projects under staff supervision. A written report is required. Prerequisite: an advanced laboratory course in psychology or consent of the chairperson of the department. Laboratory fee, $10.00. This course may be repeated for credit. Maximum: 6 credit hours.

Graduate Credit.

300. Introduction to Graduate Psychology. Cr. 3. A course intended to review a wide spectrum of current developments in various areas of psychology. Suggested as an initial departmental graduate course in order to facilitate future course selection. Prerequisite: 6 hours of psychology or educational psychology.

301. Learning and Motivation. Cr. 3. The study of the basic principles of learning and motivation with systematic treatment of major learning theorists.

302. Cognitive Processes. Cr. 3. Analysis of various cognitive processes, such as concept formation, reasoning, problem solving, creativity, and language. Prerequisite: 6 hours of psychology or educational psychology.

310. Principles of Psychotherapy. Cr. 3. Representative theoretical approaches to the process of personality change and to the techniques used in treating neurotic and psychopathic disturbances. Prerequisite: 3 hours of psychology at the graduate level.

315. Problems in Personality Theory. Cr. 3. Problems focus on relationships among central concepts in personality theory, including the self-concept, basic motives, emotional conflicts, mechanisms of adjustment, and personality integration. Prerequisite: 3 hours of psychology at the graduate level.

SOCIAL WORK

STAFF: Associate Professor Rivers (Chairman); Associate Professor Neal; Assistant Professors Dix, Franzen, and Walton


Also required are Psychology 51 and 100, Sociology 1 and 51, one course in political science, and one of the following courses: Economics 71 or 72, Geography 62, or Home Economics 115. Biology is recommended in meeting the general education requirement.

A student's formal admission into the department as a major requires completion of Social Work 51 and departmental approval.

Students wishing to move beyond a generic base, may elect to concentrate in one of the following areas: aging, church social services, criminal justice, and urban studies.

Each social work major is assigned a permanent faculty adviser. Students may participate in the Student Social Work Organization and also select their representative to department meetings.

A Department of Social Work manual is available to all majors.

The department is fully accredited by the Council on Social Work Education. It offers a professional curriculum, the completion of which leads to the Bachelor of Social Work degree.

The primary task of this department is to prepare its graduates for entry into the profession at the beginning level of practice. Secondly, some majors may seek graduate education in social work. Finally, selection of courses from this department will enhance the preparation of students who anticipate a career in one of the various helping professions, such as the field of ministry, health care, education, law, and behavioral sciences.

The curriculum is a strong liberal arts program with a sequence of carefully selected courses from this department and other departments of the College of Arts and Sciences.

The majority of both full-time and part-time faculty hold the ACSW credential, as do many of the field instructors.

Approval of Schedules. All students taking a major in the department must have their schedules approved by the chairperson of the department at the beginning of each semester.
Undergraduate Credit.

51. Introduction to the Profession of Social Work. Cr. 3. The major objective of this course is to familiarize the student with the basic issues, concepts, and systems encountered by the social work practitioner in the helping process with the community. This course is required for all social work majors and minors; it can be of great benefit to students pursuing a career in social service agencies. Values, attitudes, and policies are explored in viewing the American response to the needs of welfare consumers. Prerequisite: Social Work 51 (may be taken concurrently by juniors and seniors) or consent of the chairperson of the department. Course fee, $10.00.

110. Social Welfare: Policy and Services. Each sem. Cr. 3. The major focus (objective) of the course includes an historical survey and review of social welfare policies and programs. A descriptive analysis is made of various private, voluntary, and governmental welfare programs and agencies. Values, attitudes, and political and economic forces are explored in viewing the American response to the needs of welfare consumers. Prerequisite: Social Work 51 (may be taken concurrently by juniors and seniors) or consent of the chairperson of the department. Course fee, $10.00.

120. Human Behavior and Social Environment. Each sem. Cr. 3. This course explores the human developmental life cycle and its interplay with societal values and community functioning. Theoretical approaches to human development and societal influences are critically examined. Prerequisite: Social Work 51 or consent of the chairperson of the department. Course fee, $10.00.

140. Professional Intervention and Human Services. Each sem. 3-4, Cr. 4. A course that both introduces a student to human systems theory (individual, group, and community) and to the variety of social work interventions. There is an experimental laboratory for class members. Prerequisites: Social Work 51, 110, and 120. Laboratory fee, $15.00.

155. Social Work Practice I. Sem. 1. Cr. 6. The generic social methods and field instruction course is designed to establish a common base for direct service to people—individuals, family, small group, and community—and institutional segments of society. The central theme of the course is that the problems with which the social worker is involved dictate particular social work intervention. The substantive concentration of the sequence, therefore, is on the integration of theories, principles, skills, and processes of the various social work methods with contexts. Students enroll in Section A—Personal Functioning, Section B—Interpersonal Relationships, or Section C—Societal Processes, according to individual interests and needs. A professionally directed field practicum is offered each semester. The student works on each Thursday in a community social service agency. Prerequisites: senior standing and a major in social work. Course fee, $15.00.

156. Social Work Practice II. Sem. 2. Cr. 7. In this second semester course the student experiences an intensification of the required field practicum which will include work days on Tuesday and Thursday. Prerequisite: Social Work 155. Course fee, $25.00.

165. Introduction to Methods of Social Research. Cr. 3. This course is an introductory overview of the basic processes in scientific inquiry in the social sciences, particularly social work. Major topics to be covered are: problem formulation, research design, measurement, data collection, analysis, and interpretation, and reporting results.

181. Current Issues in Social Work. Cr. 1. This seminar is jointly designed by senior majors and is open to those issues of concern which currently face clients and practitioners in the Social Services Delivery System. Prerequisite: senior standing or consent of the chairperson of the department.

182. Analysis of Social Policy: Housing, Income Maintenance, and Health Care Services. Cr. 3. An intensive study of Social Welfare programs, principally in the United States, and an historical review of the contemporary forces, primarily social and economic, that have shaped their development. Prerequisite: senior standing or consent of the chairperson of the department. Course fee, $10.00.

SPECIALIZED OFFERINGS.

170. Social Work Colloquium. Cr. 2-3. A study of selected topics of contemporary concern for the social worker, such as adulthood, clinical methods and techniques for the helping professions, housing, independent study, juvenile delinquency, poverty, and urban minority life. Varied listings to be announced. Prerequisites: Social Work 51, 110, and junior standing or by consent of the chairperson of the department. Course fee, $10.00, dependent on selection of topic.

180. Advanced Seminars in Social Work. Cr. 1-3. These are full- or half-semester courses specializing in particular areas of social work practice or methodology such as, Administration, A Study of Federal Agency Structures, Current Issues in Group Services, Family Therapy, New Techniques for Solving Community Problems, Research, Supervision, and Children's Services. Prerequisites: successful completion of the basic course(s), junior or senior standing, and consent of the chairperson of the department. Course fee, $10.00.

SOCILOGY

STAFF: Professor J. Johnson (Chairman); Associate Professors Martinson and Westermann; Assistant Professor Williams; Mrs. Gould and Mr. Schuster

Major. A minimum of 29 credits in sociology. Courses must include Sociology 1, 101, and 102. No more than one course from the group numbered 5, 11, and 12 may be included within the minimum requirements. Students are encouraged to take an independent study project, such as Sociology 185.

A course in statistics is recommended. Most majors should elect Psychology 100. Prospective graduate students with an adequate mathematical foundation should elect Mathematics 54. Mathematics 61 (Computer Science I) is also valuable in preparing for graduate study.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript.

A minimum of 16 credits in Sociology constitutes a minor. Sociology 1 and 101 must be included. No more than three (3) credits from courses 5, 11, 12, and 185 may be applied to the 16-credit requirement.

Approval of Schedules. All students taking a major or minor in the department should have their schedules approved by the designated departmental adviser at the beginning of each semester. Normally, Sociology 101 and 102 will be taken in the junior year. Students who test out of Introductory Sociology by taking a departmental examination will be permitted to take upper-division courses in the department. However, credit toward graduation requirements must be met via course work.

Undergraduate and Graduate Credit.

1. Introductory Sociology. Each sem. Cr. 3. A study of the primary elements of sociological analysis, emphasizing the nature of social organization, the basic social structures within which humans live, the forces which hold groups together, and social change and the scientific method as applied to social behavior. Laboratory fee, $10.00.

5. Cultural Anthropology. Each sem. Cr. 3. The study of the principles of physical and cultural development with a comparison of selected cultural areas of the world. Field trip fee, $5.00.

11. Social Problems. Each sem. Cr. 3. Analysis of major social problems in the United States which arise from the operation of social systems. Possible topics include urbanization, crime and delinquency, mental illness, sexual deviance, race prejudice and discrimination, drug addiction, and poverty. Prerequisite: Sociology 1 or consent of the chairperson of the department.

12. Black Studies: Black Urban Communities. Each sem. Cr. 3. A study of selected topics such as leadership, change, relationship to dominant society, and power relationships. Prerequisite: Sociology 1 or consent of the chairperson of the department.
51. The Family. Each sem. Cr. 3. A study of the family as a basic social unit and institution, emphasizing the various forms and functions of the family in a cross-cultural perspective. Special consideration of modern influences upon the interaction and organization of the American family. Prerequisite: Sociology 1 or consent of the chairperson of the department.

52. Culture and Personality. Cr. 3. The organization and content of culture and its significance for individual personality, considered from the anthropological, sociological, and psychological viewpoints. Prerequisite: Sociology 1 or consent of the chairperson of the department.

101 (201). Sociological Analysis I. Sem. 1. Cr. 4. A study of the historical development of sociological thought and the theoretical contributions of major orientations in contemporary sociology, along with an introduction to the philosophy of social science and the logic of theory construction. Required of junior majors. Prerequisite: Sociology 1 or consent of the chairperson of the department. Offered upon sufficient demand.

102 (202). Sociological Analysis II. Sem. 2. Cr. 4. The construction of testable hypotheses and basic techniques for testing them. Required of junior majors. Prerequisite: Sociology 101 or consent of the chairperson of the department. Offered upon sufficient demand. Laboratory fee, $10.00.

*120 (*230). Social Collectivities. Each sem. Cr. 1-3. (If for graduate credit, must be taken for 3 credits.) Studies of social phenomena which can effectively be analyzed with an emphasis on group-type structure. Possible topics include small groups, work organizations, or voluntary associations. Prerequisite: Sociology 1 or consent of the chairperson of the department. This course may be taken more than once for credit if the topics are different.

*130 (*230). Societal Structures. Each sem. Cr. 1-3. (If for graduate credit, must be taken for 3 credits.) Studies of relatively stable, large-scale social phenomena which can effectively be analyzed with an emphasis on the interplay among groups, processes, and sets of beliefs. Possible topics include social stratification, poverty, ethnic minorities, political participation, urban sociology, occupational structure, political sociology, systems of justice, or human sexuality. Prerequisite: Sociology 1 or consent of the chairperson of the department. This course may be taken more than once for credit if the topics are different.

*140 (*240). Social Institutions. Each sem. Cr. 1-3. (If for graduate credit, must be taken for 3 credits.) Studies emphasizing socially shared beliefs and practices developed to deal with the major problems of societies. Possible topics include law, medicine, religion, sports, or education. Prerequisite: Sociology 1 or consent of the chairperson of the department. This course may be taken more than once for credit if the topics are different.

*150 (*250). Social Processes. Each sem. Cr. 1-3. (If for graduate credit, must be taken for 3 credits.) Studies of social phenomena which can effectively be analyzed with an emphasis on processes of influence, development, or change. Possible topics include socialization, juvenile delinquency and criminality, societal change, mass communications, sociology of knowledge, collective behavior, face-to-face interaction, aging, life cycle stages, adolescence, sociology of death. Prerequisite: Sociology 1 or consent of the chairperson of the department. This course may be taken more than once for credit if the topics are different.

184. General Studies in Sociology. Cr. 3. A study of selected topics of contemporary concern such as the role of women in society, addictive living, war, and power. Subjects will be approached from the sociological perspective, but the findings by physical sciences, social sciences other than sociology, and the humanities will be utilized where appropriate in an attempt to integrate knowledge in these areas. May be used to fulfill the General Studies Requirement.

*185 (*265). Special Problems in Sociology. Cr. 1-4. The investigation of a specialized topic in sociology, either individually or in a scheduled course. This course may be taken more than once for credit if the topics are different or if the topics are to be continued. Prerequisite: Sociology 1 or consent of the chairperson of the department.

190. Senior Seminar in Sociology. Cr. 3. A one-semester reading and discussion seminar covering topics and issues in current sociological literature. Prerequisites: Sociology 1 or consent of the chairperson of the department and senior standing.

Speech and Drama

STAFF: Professor Sitton (Chairman); Professor Kussrow; Associate Professors Dallmann and Pick; Assistant Professor Guse; Mr. R. Johnson and Mr. Robison

Major in Speech and Drama. A minimum of 30 credits.

Major Emphases.

Communications. It is recommended that courses be chosen from the following: 40, 45, 70, 91, 92, 104 or 105, 108, 145, 146, 153, 170, 171, and 185 or 186.

Drama. It is recommended that courses be chosen from the following: 45, 67, 70, 81, 101, 103, 104, 105, 138, 166, 182, 185, 186, 193, 198, and 159.

Students choosing speech and drama as their major or minor are advised to supplement their work with courses from the following fields: English and American literature, fine arts, philosophy, sociology, psychology, history, and foreign languages.

Students emphasizing speech pathology are advised to supplement their work with a minor in psychology. Also, they should plan to continue their work in an accredited graduate school. Those interested in public school therapy should consult the director of the speech clinic.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 15 credits in speech and drama constitutes a minor.

Minor Emphases.

Communications. It is recommended that courses be chosen from the following: 40 or 45, 70, 92, 108, 145, 146, 153, 170, and 171.

Drama. It is recommended that courses be chosen from the following: 40 or 45, 67, 70, 81, 104 or 105, 166, and 185 or 186.

Speech Pathology. It is recommended that courses be chosen from the following: 20, 21, 45, 150, 154, 155, and 156.

Graduate Credit.

301. Seminar in the Family. Cr. 3. Analysis of the development of current theory and the nature of contemporary research problems on the family. Prerequisite: consent of the chairperson of the department.

302. Seminar in Criminology and Penology. Cr. 3. Critical review of current theory, practice, and research in criminology and penology. Prerequisite: consent of the chairperson of the department.

* Assessment of laboratory fee dependent on selection of topic.
Plan of Study Options. The department offers plans in several areas: Drama/English; Political Science/Communications; Speech Pathology/Psychology.

The University Theatre. Additional training and experience in acting and in dramatic production are provided by the University Theatre. (Further information concerning the University Theatre may be found on page 15 of this bulletin.) Since the University Theatre serves as a laboratory for courses in theatre, majors and minors are required to work a minimum number of hours on productions each year. The hours are to be determined by the department faculty.

The Speech Clinic. It is a service offered by the department to persons with communication disorders in the University and community and to foreign students. It also serves as a laboratory for the courses in speech pathology. Anyone interested in remedial speech work should consult the director of the clinic.

Forensics. Qualified students may participate in a variety of communication experiences. Students may participate in intercollegiate debate, individual speaking events, and interpretation events. Students participate in major Midwestern tournaments.

Approval of Schedules. All students majoring or minoring in speech and drama must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate and Graduate Credit.

20. Introduction to Speech Science and Phonetics. (Formerly Introduction to Voice Science and Phonetics.) Sem. 1. Cr. 3. A study of the international phonetic alphabet, an introduction to the processes of respiration and phonation, acoustics, the acoustic theory articulation, and speech perception.

21. Anatomy and Physiology of Speech. Sem. 2. Cr. 3. A study of the neurology of speech, the systems of respiration, phonation, articulation, and hearing, the endocrine and circulatory systems as related to speech. Offered in even-numbered years.

22. Public Communication. Each sem. Cr. 2. Fundamental principles of organization, generation of argument, use of language, and components of delivery in a variety of speech making experiences. This course also includes the principles of selecting, analyzing, and evaluating information, and the use of evidence and proof for effective construction of the speech and criticism of the rhetorical situation.

23. Communication Processes: Theory and Practice. Each sem. Cr. 3. A study of verbal and non-verbal human communication based upon interpersonal communication models. Students participate in a variety of semi-structured and pre-structured communication events.

52. Observation of Clinical Practice. Each sem. 0+2. Cr. 1. Students observe and study actual therapy. This course is an orientation in procedures of the Speech and Language Clinic and preparation for Clinical Practice. It should be taken in the semester immediately preceding SPDR 152.

67. Theatre Production. (Formerly Technical Production.) Cr. 2. Intensive studies in the technical areas of theatre including: Scenery, Scene Design, Lighting, Sound and Props, Costume, and Makeup. Specific areas of study (7 weeks) will be included in the time schedule. This course may be repeated for credit if the material covered is not duplicated.

68. Theatre Practicum. Each sem. Cr. 1-2. Creative work in technical production on plays in the University Theatre. Prerequisite: consent of the technical director. May be repeated for credit.

70. Oral Interpretation. Each sem. Cr. 2. A basic course stressing the communication of thought and feeling from the printed page to the listener. Emphasis is on analysis, interpretation, and reading of drama, verse, and prose.


91. Introduction to Broadcasting. Each sem. Cr. 3. A study of the fundamental principles of radio techniques, the history of radio, and the social influence of radio. A special concern is to familiarize the student with FCC regulations, practical radio skills, and some pertinent communication models for a better understanding of the significance of this specific mass communication. Each student is required to air a weekly radio show on the campus radio station and to obtain a 3rd class FCC Radio License.

92. Studies in Mass Media Communication. Sem. 2. Cr. 3. A study of media forms and language concepts with a special emphasis on a comparison between the printed media and the electronic media. Also included in the course is a study of communication theories and models relevant to understanding the process of the mass media.

101. The Child and Creative Dramatics. Each sem. 2+1. Cr. 2. A course designed for students interested in directing plays for and with children. Prerequisite: consent of the instructor. This course may be taken for credit more than once if the topics are different.

103. The Development of Theatre Art. Sem. 1. Cr. 3. A slide/lecture course studying the development of theatre and performances from ancient ritual to the modern professional theatre. This course may be used to fulfill the Literature or Fine Arts Requirement.

104 (204). Contemporary Theatre and Its Literature. Each sem. Cr. 3. A study of the aesthetic and literary aspects of drama beginning with Beckett. This course may be used to fulfill the Literature or Fine Arts Requirement.

105 (205). Modern American Theatre and Its Literature. Sem. 1. Cr. 3. A survey of modern American drama from O'Neill through Williams. This course may be used to fulfill the Literature or Fine Arts Requirement.

106. Persuasion. Sem. 2. Cr. 3. A study of motivational communication in influencing human behavior and belief. This course includes psychological and rhetorical theories of persuasion, attitude formation and change, audience analysis, current motivational research, and the ethics of persuasion.

138. Playwriting. Each sem. Cr. 2. A course devoted to creative writing experiences in the dramatic form. May be repeated for credit.

145. Argumentation and Debate. Sem. 1. Cr. 3. The theory and practice of advocacy through logical discourse. This course includes projects and experiences in the process of rational decision making, especially the research and development of argument, analysis, case construction, and evidence.

146. Small Group Communication. Sem. 2. Cr. 3. The study of theories and techniques of communicating in small groups. This course includes a variety of experiences and critical evaluation in group participation and leadership. Special emphasis placed on group structure, group participation, leadership functions, problem solving, brainstorming, role playing, and interviewing.


152. Clinical Practice in Speech Pathology. Each sem. Cr. 0 or 1-2. Supervised clinical experience in the evaluation and treatment of communication disorders. Prerequisites: SPDR 20, 21*, 52, 150, 153*, 154*, 155*, and consent of the clinic director. May be taken concurrently with SPDR 152. May be repeated for credit.


154. Introduction to Audiology. Sem. 2. Cr. 3. A study of basic techniques of pure-tone and speech audiometry, anatomy and physiology of hearing, pathologies of the ear, and acoustics. Offered in odd-numbered years.


159. Aphasia. Sem. 2. Cr. 2-3. The diagnosis and treatment of the impairment of symbolization caused by brain damage. Offered as announced.

166. Play Directing. Sem. 2. 2+2, Cr. 2. The course includes a study of the art of directing, the problems of choosing the play, methods of casting, and rehearsal procedures. Students direct one-act plays for public performance. Prerequisite: SPDR 67.

170. The Rhetoric of Agitation and Control. Sem. 2. Cr. 3. The history and analysis of the role of rhetoric in effecting social change and maintaining control from the ancient Greeks to modern Western society. This course includes a study of theorists from Plato and Aristotle to Kenneth Burke. Special attention is given to selected practitioners of the rhetorical arts.

171. Studies in American Controversy. Sem. 2. Cr. 3. The study of structured communication in America from the Revolutionary period to the present as seen in the issues, social movements, and selected spokesmen of the times in politics, the courts, and the public platform. This course includes critical evaluations of selected American speakers with rhetorical criticism applied to public discourse.

182. Acting. Sem. 2. 2+2, Cr. 2. A continuation of study in the theory and technique of acting. Prerequisite: SPDR 81.

185 (285). Dramatic Form: Tragedy. Sem. 1. Cr. 3. A survey of the literature, history, and theory of tragedy and melodrama from the ancient to the modern theatre. This course may be used to fulfill the Literature or Fine Arts Requirement.

186 (286). Dramatic Form: Comedy. Sem. 2. Cr. 3. A survey of the literature, history, and theory of comedy and farce from the ancient to the modern theatre. This course may be used to fulfill the Literature or Fine Arts Requirement.

191. The Teaching of Speech and Drama. Sem. 2. Cr. 2. A study of the methods of teaching speech and drama in the secondary schools. (See Education 191.) Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in the department.

193. Advanced Acting. Sem. 1. 2+2, Cr. 2. An intensive study of characterization, ensemble playing, and acting technique. Prerequisites: SPDR 81 and 182.

195. Projects in Speech and Theatre. Each sem. Cr. 1-3. A course offering talented students an opportunity to study intensively an area of theatre arts or communication. May be repeated for credit.


THEOLOGY

STAFF: Professor Keller (Chairman); Professors R. Baepler, Koepeke, Krodel, and Rast; Associate Professors Albers, Droge, Jungkuntz, Korby, Lasky, Ludwig, Senne, and Truemper; Assistant Professors Brockopp, Weinhold, and Widiger; Mr. Niedner

General Education. The General Education Requirement in religion at Valparaiso University is three courses of 3 credits each. The first of these three courses must be chosen from the series of seven options numbered 10-70, and is to be taken during the student's freshman or sophomore year. Thereafter any course, unless otherwise specified, may be taken to fulfill the General Education Requirement.

To meet the General Education Requirement students are encouraged to take at least one advanced course (100 and above), and shall normally take at least one course in their junior or senior year. They are expected to select a variety of areas for their program.

General Studies Course. Religion 160 is designed to fulfill the General Studies Requirement of the College of Arts and Sciences. It does not fulfill the religion requirements for general education, the minor, or the major.

Major. Consists of 18 credits beyond the 9 credits required for general education.

a) Students who desire to earn a major in religion shall complete at least one course in each of the following five areas: Bible (10, 100, 101-102); Church History (20, 110); Christian Thought (30, 40, 120-124); Church and Ministry (50, 130); History of Religions (60, 140). They shall also take four additional religion courses chosen in consultation with the chairperson of the department.

b) Students with a first major in another department may develop their concentration according to (a) above, or by completing the following alternative major program, intended to prepare for voluntary service in the Church: Religion 60, 101, 102, 173, 174, and four additional religion courses chosen in consultation with the chairperson of the department.

Minor. Although a minor is not required for graduation in the College of Arts and Sciences, a student may request that a minor be listed on his/her transcript. A minimum of 9 credits (three courses) beyond the General Education Requirement, chosen by the student in consultation with the chairperson of the department, constitutes a minor.

Approval of Schedules. All students taking a major in this department must have their schedules approved by the chairperson of the department at the beginning of each semester.

Undergraduate and Graduate Credit.

Courses 10-70 are designed to provide the student with a variety of options for introduction to the study of Christian religion.


20. Formative Events in Church History. Each sem. Cr. 3. A study of those events which shaped the Church's understanding of her nature and mission.

1Director, University Overseas Center, Reutlingen, Germany, 1976-1978.


50. The Church and Her Work. Each sem. Cr. 3. A study of the life and work of the Church and of her institutions.

60. History of Religions. Each sem. Cr. 3. A study of major religions and of the ways in which they interpret the nature of reality and the divine/human relationship.

70. Christian Commitment and Cultural Options. Each sem. Cr. 3. A study of religious commitment, with special concentration on the nature of the Christian message and commitment, its origins, its central focus, and its contact with contemporary culture.

100. Studies in the Bible and Its World. Each sem. Cr. 3. An examination of individual topics, such as: Israel's Life and Worship, the Prophetic Faith, Archaeology and the Religions of the Ancient Near East, Judaism, the Gospels and Jesus, Paul and the Epistles. Varied listings to be announced each semester.


110. Studies in Church History. Each sem. Cr. 3. An examination of Individual topics, such as: History of the Early Church, the Medieval Synthesis, the Reformation, the Church in the Reformation Age. Varied listings to be announced each semester.


121. Life and Thought of Martin Luther. Sem. 1. Cr. 3. A study of the life of Martin Luther and the structure of his thought.

122. Lutheran Confessional Theology. Sem. 2. Cr. 3. A study of the historical background and doctrinal content of the confessions of the Lutheran Church.

123. Comparative Christianity. Sem. 1. Cr. 3. An examination of various Christian denominations in the light of their history and confessions.

124. Christianity and Culture. Sem. 2. Cr. 3. An examination of the contemporary Christian life through its encounter and dialogue with the world.

125. Lutheran Doctrine since 1580. Sem. 1. Cr. 3. A study of the Lutheran doctrinal heritage since 1580, with special reference to its development in the United States. Prerequisite: Religion 122.

130. Studies in Worship and the Liturgy. Each sem. Cr. 3. An examination of individual topics, such as: Worship and Secularization, Principles and Form of Worship, Art and Liturgy. Varied listings to be announced each semester.

140. Studies in the History of Religions. Each sem. Cr. 3. An examination of topics in individual religious traditions, or of motifs in several traditions, such as: Buddhism, Creation Myths, African Religions. Varied listings to be announced each semester.

150. Colloquium. Each sem. Cr. 3. An approach to the understanding of the Christian faith in the light of current questions, problems, and interdisciplinary dialogue through readings and discussion. Each semester a number of colloquia will be offered, each dealing with a particular topic, such as: Religion and Medicine, Communications and Theology in a Mass Culture, Church and Race Issue.

160. The American Religious Experience. Each sem. Cr. 3. An investigation of American religious thought with special emphasis on the interaction between religion and American cultural development. This course fulfills the General Studies Requirement and may not be used to fulfill the religion requirements for general education, the minor, or the major.

161. Religion and Medicine. Each sem. Cr. 3. A study of historical and contemporary relationship between Christianity and healing, with special emphasis on ethical issues in medical research and technology. This course is designed for students interested in a medical or paramedical career as nurses, physicians, social workers, technicians, or research scientists. Prerequisite: junior standing or consent of the instructor.

170. Practicum in Ministry. Each sem. Cr. 1-3. Semester to semester design for field experience in various local agencies; together with reflection on the work being done. This course may be taken only as an elective for a maximum of 6 credit hours. Offered on S/U basis only. Arranged with the chairperson of the department.

171. Clinical Deaconess Education. Each sem. Cr. 3. A carefully supervised practicum in ministry to the physically ill and the elderly. This course is designed principally for senior Deaconess students. Offered on S/U basis. May not be used to fulfill the religion requirements for general education, the minor, or the major.


175. Principles and Practice of Biblical Interpretation. Sem. 1. Cr. 3. Studies of selected biblical sections concentrating on methods of interpretation. Prerequisite: Religion 102 or consent of the chairperson of the department.

177. Deaconess Work. (Formerly Christian Education.) Sem. 1. Cr. 3. A study of various aspects of Deaconess ministry, care, and counselling. This course may not be used to fulfill the religion requirements for general education, the minor, or the major.

178. Christian Education. (Formerly Deaconess Work.) Sem. 2. Cr. 3. A study of the principles of Christian education. This course is designed especially for those who expect to be engaged in a teaching ministry in the Church.

180. Theology Seminar. Each sem. Cr. 3. Advanced study of selected areas or issues in the discipline of theology. Varied listings to be announced each semester. Prerequisites: senior standing and consent of the chairperson of the department.

181 (281). Theology and the Sciences of Man. Sem. 1. Cr. 3. An investigation of the areas of common interest in the fields of Christian theology and the social or personality sciences. Varied listings to be announced each semester.

182 (282). Contemporary Ethical Issues. Sem. 2. Cr. 3. Advanced studies in selected contemporary ethical issues. Prerequisite: senior standing. Varied listings to be announced each semester.


184 (284). Systematic Theology II. Sem. 2. Cr. 3. Continuation of Religion 183 (283) emphasizing the constructive task of contemporary systematic theology, and studying the structure and content of the Christian faith. Prerequisite: Religion 183 (283) or consent of the chairperson of the department.

190 (290). Independent Study. Each sem. Cr. 1-3. Prerequisites: junior standing, 12 semester hours in religion, and consent of the chairperson of the department.

Graduate Credit.

320. Biblical Studies Today. Cr. 3. A survey and evaluation of the post-Reformation revolution in biblical studies, its origin and nature of the problems with which it has confronted the Church and the Church's response.

352. The Church and the Secular Age. Cr. 3. A study of secularism with special emphasis on the theological evaluation of it in the works of contemporary theologians, and an examination of the Church's life and task in response to the challenges of the secular age.

355. The Lutheran Liturgical Heritage. Cr. 3. A study of the theology and forms of the Lutheran Rite in their historical and religious settings. Special attention is given to the implications of current liturgical renewal for the Lutheran understanding of the Liturgy.

361. Basic Theology of the Reformation. Cr. 3. A study of the historical setting and structural coherence of Reformation theology in terms of its 16th century context and its role in contemporary theological and secular thought.

382. The Dynamics of Modern Roman Catholicism. Cr. 3. A study of the theology and structure of current Roman Catholicism in relation to the internal development of that communion since Trent.

385. Images of Man. Cr. 3. A seminar exploring differing views of humankind. A selected number of works by significant writers from various disciplines will be studied.
STAFF: Professor R. Baepler (Dean); Professors Riedel and Rubel; Associate Professors Lee and Reiner; Assistant Professor Olmsted; Mr. Piehl

ORGANIZATION. Christ College is an Honors College emphasizing liberal studies and providing a place in undergraduate study for courses and programs which implement honors standards and offer the freedom and flexibility for educational experimentation.

The College shares the general purposes of Valparaiso University. Its membership is drawn from the University’s four undergraduate colleges in which each student is completing a normal specialized program. Through these colleges a university degree will be granted with the added honors designation, “Christ College Scholar” or “Christ College Associate” for students who at the same time have met the requirements of Christ College.

The program of courses offered by Christ College replaces many of the general education courses required of all students by the University. This program, supplemented by additional seminar work, invites its students to inquire beyond their specialized interests into larger contexts of thought, action and production, encouraging thereby the exploration of values and the integration of knowledge. Such liberal studies are an excellent preparation for many professions. Personal and intellectual growth of high quality is fostered by a resident staff which works closely with small numbers of students.

Above all, Christ College encourages the restlessness of the seeker who desires to know things as they are and whose thought and imagination have been captured by some vision of things as they might be under the grace of God and the exertions of human will and intelligence.

To achieve these purposes Christ College provides: a variety of planned programs and supervised study leading to a student’s graduation with the honors designation “Christ College Scholar” or “Christ College Associate”; one or more comprehensive Freshman Programs which approach general education experimentally at the level of honors work and fulfill part of the University’s General Education Requirement; a range of courses and programs, largely experimental or interdisciplinary in nature, which do not naturally fall into the traditional division of work among the regular departments; co-curricular experiences, including lectures and conferences designed to foster a reflective and civilized style of life as well as involvement in the problems of modern society; opportunities to work out a theology of life and vocation; and a new physical setting which facilitates immediate relationships between students and faculty as well as communication among the traditional divisions of knowledge.

THE FRESHMAN PROGRAM. The Program is a network of activities designed to capitalize on the educational opportunities arising from a series of carefully designed general studies. The Program is offered to a relatively small group of freshmen who are willing to invest more of themselves in the academic enterprise than might normally be required of them. Small classes, tutorial work, and an experimental flair characterize the multi-disciplinary work of the Program.

Students are admitted into the Program upon approval of their applications for admission. The application form, which is available through the Dean’s Office, asks that a student provide evidence of his/her ability to profit from the Program, together with an expression of his/her personal intellectual goals.
Since a limited number of students can be accepted for the Program, the Christ College staff will choose its registrants from among the applicants.

The Program is planned as a two-semester sequence and carries eight hours of academic credit per semester. The successful completion of the Program satisfies part of the general education requirements of the student's college. Students from the professional colleges as well as from the College of Arts and Sciences are enrolled in the Program. A further description of it is available through the office of the Dean of the College.

ADMISSION AND MEMBERSHIP. Any student at Valparaiso University is welcome to enroll in the courses offered by Christ College, subject to the approval of the instructor of the course. Students who wish to become members of the College may apply for admission beginning with their sophomore year but no later than the middle of their junior year. Students admitted to the College are designated "Members of Christ College." Since such students are at the same time enrolled in another University college, they jointly advise their departmental adviser and their Christ College adviser.

In admitting students, consideration will be given to the interests and goals of the student, his/her academic achievement and promise, and evidence of his/her initiative, originality, creativity or qualities of leadership.

Once admitted to membership, a student's status is periodically reviewed by the faculty to determine whether the student is satisfying the standards and requirements of the College. These requirements include satisfactory academic progress toward the College's stated goals and contribution to the common life of the College and the University. Even when a student is not a member of Christ College, he/she shall contribute directly involved in the courses offered by the College, he/she shall contribute directly to the College's common life, partly through the relationship with the adviser and partly through membership in the Christ College Symposium, which meets periodically during each semester at a regularly scheduled hour. He/She may further contribute by assisting in teaching; opportunities for instructional assistance shall be arranged particularly for senior students.

The faculty takes an interest in the total program of each member. Accordingly it may authorize certain variations in the normal academic requirements of a student if such variations seem desirable. For example, it may permit a student to carry additional hours, to waive prerequisites for advanced courses, or to carry academic credit through examination, and to waive certain University requirements if such waivers are justified. In general, the faculty ordinarily will not require members to take courses outside of the College, nor will it require the student to engage in a service job supplied him/her by the College.

Membership in Christ College is never terminated by the mechanical application of arbitrary criteria such as grade-point average or the student's academic record for a particular semester. In general, Christ College students meet the requirements of the College's stated goals and contribute to the common life of the College and the University. Even when a student is not a member of Christ College, he/she shall contribute directly involved in the courses offered by the College, he/she shall contribute directly to the College's common life, partly through the relationship with the adviser and partly through membership in the Christ College Symposium, which meets periodically during each semester at a regularly scheduled hour. He/She may further contribute by assisting in teaching; opportunities for instructional assistance shall be arranged particularly for senior students.

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The requirements for graduating with this designation are:

1) Membership in Christ College for a minimum of three semesters;
2) Twenty-five hours of work in courses in the College at a grade average of at least 3.00. Students who have completed part or all of the Freshman Program need offer only twenty-one additional hours;
3) Humanities 105 and 106;
4) Three courses in Christ College taken during the junior and senior years. These courses shall be either senior seminars or tutorial and independent-study work taken under the auspices of the College. Students enrolled in an off-campus program of the University may petition to waive one of these three courses. Of the three courses, one shall be the Senior Honors Seminar which shall not be waived except for extraordinary reasons. This seminar replaces the junior-senior General Studies Requirement of the University;
5) One course in religion sponsored by Christ College; and
6) An appropriate independent-study project. This shall not count as one of the three required junior-senior courses referred to in 4, above.

CHRIST COLLEGE ASSOCIATE. The requirements for graduating with this designation are:

1) Membership in Christ College for a minimum of three semesters;
2) Sixteen hours of work in courses in the College at a grade average of at least 3.00. Students who have completed part or all of the Freshman Program need offer only twelve additional hours;
3) Humanities 105 or 106;
4) The Senior Honors Seminar;
5) One course in religion sponsored by Christ College; and
6) An appropriate independent-study project.

*URBAN SEMESTER. Through Christ College, Valparaiso University offers all students a semester long program involving residence in Chicago in cooperation with a number of midwest colleges. This program involves the student in direct observation of urban life in the context of academic reflection and research. Students admitted to the program may earn from 13-16 credits, including closely supervised independent study. In addition, each student is required to engage in a service job supplied him/her by the Director. The program is taught by a special staff, partly recruited from the cooperating colleges and partly from other academic institutions.
The following courses are offered in a residential program in Chicago in cooperation with the Associated Colleges of the Midwest:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Studies 138</td>
<td>The City and Its Systems</td>
<td>6 credits</td>
</tr>
<tr>
<td>Urban Studies 150</td>
<td>Power and Justice</td>
<td>4 credits</td>
</tr>
<tr>
<td>Liberal Studies 194</td>
<td>Independent-Study Project</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Students shall be admitted to this program on the recommendation of an appropriate committee. This program is scheduled to be offered for the school years of 1977-1978 and 1978-1979.

SPECIAL PROGRAM IN THE HUMANITIES. A student with a first major in any department of the College of Arts and Sciences may earn a second major in an interdisciplinary study of the humanities. This combination comprises the Special Program in the Humanities.

The aim of the Program is an increased knowledge of the human world and the acquisition of skills leading to the enjoyment and understanding of a wide range of imaginative and intellectual works.

The courses in the Program focus on a variety of works and ideas such as lyric poetry, various kinds of argument, analyses of the symbolic structures of society and significant concepts found in scientific literature. These courses cultivate the arts of interpretation and judgment which may be applied to texts as well as to events in social and political life. This activity leads to further reflection on central cultural problems of our time, so that the student is encouraged to make an independent effort to assess statements of facts and test values among competing contemporary and traditional claims.

A brochure offering detailed information on this Program is available in the Dean's Office. A brief outline of the study plan follows:

I. A major concentration approved by any department in the College of Arts and Sciences.

II. Interdisciplinary major in the Humanities.

Note: As background for this major, students should develop historical perspective, some appreciation of the fine arts, and some insight into the relation of theology and the imagination before or during their formal work in the Program. Members of Christ College who have taken the College's freshman-sophomore offerings should also take Art 127 or Music 1 and an upper division religion course related to this program as approved by his adviser. Students who have not taken the lower division program in Christ College should take History 1 and 2; or Philosophy 51 and 53; or English 105 and 106 in addition to the art or music course and the religion course mentioned above.

A. Core Sequence.

1. Humanities 150: Interpretation in the Humanities.
3. Liberal Studies 198: Senior Honors Seminar.

B. Supplementary Courses. Each student will select three courses from Liberal Studies 191, Humanities 160, 170, and 180. Selection of specific seminars or sequences of seminars will be determined through advising and continued review of the student's program.

C. Independent Study. A three-credit independent study resulting in an essay on an approved topic. A study proposal is to be submitted by the end of the spring term of the junior year. The Special Program in the Humanities may also serve as a nucleus or coordinated portion of the "individual program of studies" or an "interdisciplinary major." The Special Program may be taken as an academic minor; the minor shall consist of sixteen hours, including Interpretation in the Humanities. Any of the 160-180 seminars may be taken individually or in combination by any student, subject to the instructor's permission.

Undergraduate Credit.

FRESHMAN PROGRAM.

Christ College 20. Sources of Western Culture I. Sem. 1. Cr. 3. A study of the evolution of Western society and its basic ideas from its Graeco-Hebraic beginnings to the 17th century.

Christ College 21. Sources of Western Culture II. Sem. 2. Cr. 3. A study of selected issues in the social and intellectual life of Western society from the 17th century to the modern period.

Christ College 30. Arts of Inquiry I. Sem. 1. Cr. 5. A close examination of major works selected from various disciplines within the humanities and social sciences. Special attention is given to the arts necessary for proper reading, argument, and writing, and some attention is given to the expressive arts. Advisory grades (4, 3, 2, 1) will be given throughout the semester but the final grade will be S/U.

Christ College 40. Arts of Inquiry II. Sem. 2. Cr. 5. A continuation of CC 30. Each student will conduct a major investigation of a problem to be formulated in the course of the term.

URBAN SEMESTER (CHICAGO).

Urban Studies 138. The City and Its Systems. Each sem. Cr. 6. An introduction to the history of the city and to various methods of studying and perceiving urbanism. The major part of this interdisciplinary course proposes to study, through systems analysis, selected sub-systems of the city of Chicago, such as housing, work, transportation, and communication. This course is offered only in Chicago and includes field work experience.

Urban Studies 150. Power and Justice. Each sem. Cr. 4. Social and ethical analysis is brought to bear on a particular problem selected from that contemporary urban scene.

GENERAL PROGRAM.

Humanities 105. Masterpieces of Literature. Sem. 1. Cr. 4. A study of selected masterpieces of world literature. Prerequisite: Christ College 21 or English 5.

Humanities 106. Masterpieces of Literature. Sem. 2. Cr. 4. Continuation of Humanities 105. Prerequisite: Christ College 21 or English 5.


Religion 106. Issues in Contemporary Christian Thought. Each sem. Cr. 3. A study of contemporary Christian writers and the issues they deal with in their effort to relate the Christian faith to modern culture.


Liberal Studies 140. Special Topics. Each sem. Cr. 2-3. Each year Christ College will offer
courses, often in the form of seminars and open to all juniors and seniors in the University, dealing with themes of social, intellectual, or artistic importance. These courses will ordinarily be multidisciplinary in nature. Topics dealt with in the past and likely to be repeated in the future include:

- Law and Society
- Personality and Politics
- Technology and Human Culture
- American Public Policy
- The Unity of the Arts
- Scientific Theories

**Liberal Studies 155. Tutorial Studies: Topic.** Each sem. Cr. 2-4. A course of studies arranged by a professor and one or more students. S/U grade optional. Open only to members of Christ College. Prerequisite: consent of the Dean.

**Liberal Studies 185. Christ College Symposium.** Each sem. Cr. 0. A periodic occasion for presentation and discussion of items and topics of special interest to members of the Christ College community. S/U grade.

**Liberal Studies 191. Inquiry in the Liberal Arts.** Sem. 1 or 2. Cr. 3. A course in the theory and practice of the liberal arts. Students in this course will collaborate with instructors as tutorial assistants in other courses offered by the College. S/U grade.

**Liberal Studies 194. Independent-Study Project: (Area of concentration.)** Each sem. Cr. 2-6. A special independent study project in which there are no provisions for independent work in the student's major area of concentration. Approval of the project must be obtained from the chairperson of the department concerned and the Dean of the College. Under special circumstances may a student register for this course in a regular Summer Session. However, under certain circumstances, some credit may be assigned for a portion of the work done during the summer months.

**Liberal Studies 198. Senior Honors Seminar.** Cr. 3. A seminar offered under the supervision of the faculty of Christ College. The purpose of the course is to study a limited number of significant works in various fields of study through a common topic or theme. Required of Christ College seniors. Open also to all seniors on the Dean's list as space permits.

**Public Affairs 100. The Legal Process.** Sem. 1 or 2. Cr. 3. A course in the theory and practice of the legal process. Prerequisite: consent of the Dean.

**Public Affairs 130. The Philosophy of Public Discourse.** Sem. 2. Cr. 4. A study of classical liberal arts of language and an examination of their use in selected classical and popular examples of discourse about the public and its affairs. Prerequisite: consent of the Dean.

**SPECIAL PROGRAM IN THE HUMANITIES.**

**Humanities 150. Interpretation in the Humanities.** Sem. 1. Cr. 4. An introductory study of interpretive problems in the humanities. Primary attention will be given to the theory and practice of interpretation, particularly in relating interpretation to authorial or artistic intention, varying subject matters, and differing audience expectations. Prerequisite: consent of the Dean.

**Humanities 155. Literature, Religion, and Modernity.** Sem. 1 or 2. Cr. 3. An examination of religious elements in the rhetoric and style of modern writers. Topics include religion and rhetoric, the religious symbol, and the art of religious art. Prerequisite: consent of the Dean.

**Humanities 160. Humanities Seminar.** Sem. 1 or 2. Cr. 3. An interdisciplinary study of a particular topic (e.g., Christian Humanism, Marxist Humanism, Technology and Culture) on the basis of works selected from the various fields of the humanities. Prerequisite: consent of the Dean.

**Humanities 170. Humanities Seminar.** Sem. 1 or 2. Cr. 3. An interdisciplinary study of a representative person whose work and thought have had a significant influence in the Western Tradition (e.g., Nietzsche, Coleridge, Goethe). Prerequisite: consent of the Dean.

**Humanities 180. Humanities Seminar.** Sem. 1 or 2. Cr. 3. An interdisciplinary study of the thought, sensibility and social context of a particular period (e.g., The Greek Experience, The Romantic Movement, Man in the Modern Epoch) through an examination of selected works from that period. Prerequisite: consent of the Dean.

**Humanities 185. Independent Study.** Sem. 1 or 2. Cr. 3. A course of study arranged by the student with an instructor. The study will comply with requirements and options for independent study as described under the Special Program in the Humanities.
OBJECTIVES. This College, as an integral part of Valparaiso University, shares the philosophy and the general objectives of the University. Each student, in addition to majoring in a department, is required to complete a number of courses which provide an introduction to various phases of business. Because of the variety of business opportunities and the changing environment within which business operates, the student is encouraged to broaden this background and outlook by taking as many courses as possible in the liberal arts.

Each student is encouraged to learn to think coherently, logically, and creatively and to learn to apply the knowledge and understanding of human society and of Christian principles gained from the liberal arts and religion to business decision making and to the conduct as a businessperson.

ORGANIZATION. The College is an administrative and instructional unit of the University under the direction of the Dean of the College. It comprises three departments: Accounting, Administrative Sciences, and Economics. Course offerings in Administrative Sciences are structured to permit limited concentrations in marketing, personnel-production, and business law and finance.

CURRICULA. Three four-year curricula are offered which lead to the degree of Bachelor of Science in Business Administration. In addition to taking certain prescribed courses in accounting, business law, marketing, finance, personnel-production, and economics, the student must complete a major in one of the three departments: Accounting, Administrative Sciences, or Economics. The requirements for a major in each of these three departments are set forth in the curricula described below.

Each of the three curricula requires that the student devote approximately one half of his/her time to required and elective courses in the liberal arts. The required courses include English, religion, the natural sciences, mathematics, the social sciences, and physical education. The liberal arts electives may be chosen from any of the natural sciences, humanities, languages, or social sciences. The student will normally choose elective courses in those areas which provide both diversity and support to his/her educational background. Specific details concerning the prerequisites for courses in the liberal arts will be found in the announcements of the College of Arts and Sciences.

STUDENT ORGANIZATION. All students in the College are eligible for membership in The Association of Business Students. This association offers the student the opportunity for development through field trips, a guest speaker program, special faculty lectures, and participation in other extracurricular activities.

OMICRON DELTA EPSILON. This international honor society recognizes undergraduate students for their scholastic attainment in the area of economics. Its objectives are to establish closer ties between students and faculty and to encourage discussion on economic topics. Students who have completed twelve credits of economics with an average of 3.00 or better and have a similar average in their overall scholastic work are eligible for membership. The Delta Indiana Chapter was established at Valparaiso University in 1969.
COOPERATIVE PROGRAM. An arrangement has been established with the Internal Revenue Service such that two students each year from the Department of Accounting participate in a work-study program with the Gary, Indiana office of the Internal Revenue Service. Students selected for this program work during the summer between their junior and senior years and half time during their senior year. This arrangement is designed to familiarize the student with accounting practices and also to give him/her a singular advantage should he/she elect to join the Internal Revenue Service after graduation.

GRADUATION REQUIREMENTS. In order to be eligible for the degree of Bachelor of Science in Business Administration, a student must complete one of the three prescribed curricula and must meet all the additional requirements for graduation set by the University (see page 65-67 of this bulletin).

No credits earned in secretarial studies and only twelve semester credits earned in the College of Engineering may count towards the degree of Bachelor of Science in Business Administration. Credits earned in Developmental Reading are treated in the same manner as secretarial studies. Students who transfer to the College of Business Administration from another college within the University must have their work evaluated with reference to the requirements of the appropriate curriculum.

MINOR. A student is allowed to declare a minor in the College of Arts and Sciences, provided that no more than six hours required for the business administration program are used in fulfilling the requirement of a minor. The minor will be listed on the student’s official academic record.

ADMISSION. The requirements are the same as those for admission to the College of Arts and Sciences. These requirements may be found on page 55 of this bulletin.

†CURRICULA FOR DEGREE OF BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION.

The following courses are common to each major.

LOWER DIVISION.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Religion</td>
<td>6</td>
</tr>
<tr>
<td>English: Exposition and Argument 5 (or English 3 and 4)</td>
<td>4</td>
</tr>
<tr>
<td>Literary Studies 25</td>
<td>4</td>
</tr>
<tr>
<td>Business Communication 57</td>
<td>3</td>
</tr>
<tr>
<td>*Mathematics 1-31, 36, 38, 113</td>
<td>8</td>
</tr>
<tr>
<td>Natural Science (any course)</td>
<td>4</td>
</tr>
<tr>
<td>Computer Science, Mathematics 61</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
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<tr>
<td>Oral Communication</td>
<td></td>
</tr>
<tr>
<td>(Recommended Courses: Speech 45, 108, or 146)</td>
<td>3</td>
</tr>
<tr>
<td>Economics 71 and 72</td>
<td>3</td>
</tr>
<tr>
<td>**Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>***Liberal Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 1 and 2 (Formerly 11 and 12)</td>
<td>6</td>
</tr>
<tr>
<td>Administrative Sciences 21 (Formerly 41)</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 22 (Formerly 85)</td>
<td>3</td>
</tr>
</tbody>
</table>

UPPER DIVISION.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Religion</td>
<td>3</td>
</tr>
<tr>
<td>Economics Elective</td>
<td>3</td>
</tr>
<tr>
<td>***General Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

CORE COURSES—COMMON TO ALL THREE MAJORS.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Administrative Sciences 31</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 51 (Formerly 141)</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 61</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 62 (Formerly 63)</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 123 (Formerly 140 and 147)</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 126 (Formerly 148)</td>
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</tr>
</tbody>
</table>

ACCOUNTING MAJOR.

Upper Division.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Accounting 17 (Formerly 101)</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 18 (Formerly 102)</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 105 (Formerly 111)</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 107</td>
<td>3</td>
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<tr>
<td>Accounting 108 (Formerly 113)</td>
<td>3</td>
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<tr>
<td>Accounting 113</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 23 (Formerly 87)</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Sciences 167 (Formerly 152)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

1A transfer student may apply a maximum of 6 credits in religion from his/her advanced standing to this requirement. Otherwise, a transfer student with more than 40 credits but less than 75 credits of advanced standing need complete two courses (6 credits) of religion at Valparaiso University. A transfer student with 75 credits or more of advanced standing need complete one course (3 credits) of religion at Valparaiso University.

"Economics courses may not be used to fulfill this requirement.

Any approved course except Home Economics 115.

Accounting majors must take Administrative Sciences 63.

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ACCOUNTING

STAFF: Professor Sievers (Chairwoman); Associate Professor Ehrenberg; Assistant Professors Mortensen and Pelfrey; Mrs. Martin

The accounting major, required and elective curriculum, is designed to satisfy the minimum requirements for professional positions in the following fields of endeavor: public, industrial, governmental, and small business accounting as well as graduate schools in business and schools of law. It is strongly recommended that the accounting major consult with his/her adviser in accounting and/or the chairperson of the department to develop his/her own curriculum. It is highly recommended he/she plan his/her curriculum as early in his/her college career as possible. Normally, to expand his/her background a student will present more credit hours at time of graduation than is minimally required. The use of the student’s elective courses to supplement the accounting major is imperative, especially if a specialized background is desired.

Undergraduate Credit.

1. (Formerly 11.) Accounting Principles I. Each sem. 3+1, Cr. 3. The course develops and applies the fundamental principles and procedures of accounting to the single proprietorship, partnership, and corporate forms of business enterprise. Laboratory fee, $5.00.

2. (Formerly 12.) Accounting Principles II. Each sem. 3+1, Cr. 3. A continuation of Accounting 1. Prerequisite: Accounting 1 or the equivalent. Laboratory fee, $5.00.

17. (Formerly 101.) Intermediate Accounting I. Sem. 1. Cr. 3. The course covers the premises and constituent parts of accounting statements in light of present day practices and theories including alternative methods of presentations. Prerequisite: Accounting 2 or the equivalent.

18. (Formerly 102.) Intermediate Accounting II. Sem. 2. Cr. 3. A continuation of Accounting 17. Prerequisite: Accounting 17 or consent of the chairperson of the department.

103. Managerial Accounting. Each sem. Cr. 3. For non-accounting majors only. Student is assumed to have a basic knowledge of the financial record-keeping process. The course is designed to enable the student to analyze for management decision-making the information contained in a company’s books and records. Prerequisite: Accounting 2 or the equivalent.

105. (Formerly 111.) Cost Accounting. Sem. 1. Cr. 3. A course designed to examine in detail the specialized problems of cost accumulation and analysis of manufacturing operations. Emphasis is placed on understanding different systems and costs. Prerequisite: Accounting 2 or the equivalent. Laboratory fee, $5.00.

106. (Formerly 112.) Advanced Cost Accounting. Sem. 2. Cr. 3. A course designed to prepare students to analyze the use cost information for: cost planning, decision and control by utilization of forecasting, budgeting, capital budgeting, rate of return, and cost-volume-profit analysis techniques; motivation, performance, evaluation through utilization of standards and variance analyses, direct costing, decentralization, internal transfer pricing and cost allocations; application of cost analysis techniques to governmental and not-for-profit organizations will be covered as well. Prerequisite: Accounting 106 or consent of the chairperson of the department. Laboratory fee, $5.00.

107. Standards and Principles of Financial Accounting. Sem. 1. Cr. 3. A survey of official pronouncements on accounting standards and principles. Prerequisite: Accounting 18 or the equivalent. Accounting 107 should be taken by accounting majors immediately after Accounting 18 or the equivalent.

109. (Formerly 115.) Advanced Accounting. Sem. 1. Cr. 3. A course dealing with the special problems of business organization expanding into multiple groups. Prerequisite: Accounting 17.

*Credit for Accounting 1 and 2 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Accounting.
110. (Formerly 116.) Accounting Procedures in Special Areas. Sem. 2. Cr. 3. A course dealing in accounting procedures covering partnerships, joint venture, installment sales, consolidations, receivables, estates, trusts, foreign exchange, government and fund accounting. This course is designed primarily for students who intend to enter public accounting or law. Prerequisite: Accounting 17.

113. Federal Income Taxation I. Sem. 1. Cr. 3. A study of Federal taxes affecting business entities. Prerequisite: senior standing in the College or consent of the chairperson of the department.

114. (Formerly 120.) Federal Income Taxation II. Sem. 2. Cr. 3. A rigorous study of taxation and its practical application to the individual including gift and estate tax. Prerequisite: Accounting 113 or consent of the instructor.

115. (Formerly 125.) Accounting Systems and Controllership. Sem. 1. Cr. 3. A course designed to acquaint the student with contemporary accounting problems and theory through use of selected case studies; also internal control, including what it is, how it is used, and what it can do for the business organization. Topics will include accounting systems-manual accounting; costing; budgeting; budgeting methods and their application; merchandising; internal control; and analysis of variance. Prerequisites: Accounting 105 and senior standing in the College or consent of the chairperson of the department.

116. (Formerly 123.) Contemporary Accounting Theory. Sem. 2. Cr. 3. A course which examines contemporary accounting theory through current readings. Attention is focused on those areas about which the accounting profession is most concerned. The significance and implications of generally accepted accounting principles as well as the evolutionary process involved in their development, are stressed. Recommended for senior accounting majors only.

117. (Formerly 128.) Auditing. Each sem. Cr. 3. Techniques of performing audits for public accounting firms. Auditing standards will be reviewed, as well as criteria and methods used to support balance sheet account values. Prerequisites: Accounting 18 and 105. Laboratory fee, $5.00.

118. Auditing Practice Set. Each sem. Cr. 1. The simulation of an actual audit. Worksheet preparation and supportive documentation will be emphasized. Prerequisite: Accounting 117 or concurrently with Accounting 118.

119. Problems in Accounting. Each sem. Cr. 1-3. A course in which a special topic in accounting will be given intensive study. Prerequisites: senior standing in the College and consent of the chairperson of the department.

ADMINISTRATIVE SCIENCES

STAFF: Professor Laube (Dean and Acting Chairman); Professors Hutchins and Schleider; Associate Professors Bierswegen and Wilton; Assistant Professors Buckley, Dowske, Miller, and Robinson.

Undergraduate Credit.

GENERAL ADMINISTRATION.

21. (Formerly 41.) The Individual in the Managerial Setting. Each sem. Cr. 3. This basic course exposes the student to the complexities of the manager's milieu, including: the societal sectors; organizations; the manager within the organization; the organization within the various sectors; the work of the manager and personal requirements of managers. Prerequisite: sophomore standing in the College.

22. (Formerly 85.) Statistics. Each sem. Cr. 3. A course in the elements of statistical inference and the student to the complexities of the managerial milieu, including: the societal sectors; organizations; the manager within the organization; the organization within the various sectors; the work of the manager and personal requirements of managers. Prerequisite: sophomore standing in the College.

23. (Formerly 87.) Quantitative Methods. Each sem. Cr. 3. A course covering various quantitative approaches to decision making. Topics covered include: Bayesian decision making, inventory analysis, linear programming, queuing theory, Markov analysis, and simulation. Prerequisites: Administrative Sciences 22. Laboratory fee, $5.00.

24. (Formerly 146.) Management Systems. Sem. 1. Cr. 3. Study of systems theory and impact upon organizations and management, including analysis and design of information systems, role of management in the development of systems, and applications to the decision-making process. Prerequisite: Administrative Sciences 21.

25. Business Research. Sem. 2. Cr. 3. Study of the research process covering problem definition, sources of information, sample design, questionnaire development and analysis and presentation of data. A field project will be undertaken to emphasize applications. Prerequisites: Administrative Sciences 22 and junior standing in the College.

26. (Formerly 143.) Organization Behavior. Sem. 2. Cr. 3. A study of the behavioral aspects of work, including the interactions between individuals, between individuals and organizations, with special attention to the implications of organization behavior for managers. Prerequisite: Administrative Sciences 21.

Note: The following courses are basic courses designed to encompass all functional areas with varying degrees of emphasis and with the intent of fulfilling an integrative objective.

121. (Formerly 105.) Small Business Management. Each sem. Cr. 3. Study and applications of the essential managerial factors of various types of small business, including organizational, environmental, and personal factors. Exposure to sources of information and assistance for the small businessman. Prerequisites: Administrative Sciences 21, 31, 51, 61, and Accounting 2.

122. Small Business Institute. Sem. 2. Cr. 3. Practicum in which the student participates as a member of a team of student consultants on actual small business cases referred by the Small Business Administration. Enrollment limited by the number of cases referred by the agencies (SBA). All student activities are performed by the students, under general supervision of the faculty coordinator. Prerequisites: Administrative Sciences 121 and approval of the chairperson of the department.

123. (Formerly 140 and 147.) Business Policies. Each sem. Cr. 3. A capstone course integrating business curriculum and background through case analysis, a conceptual approach to administrative policy, strategy and decision making through analysis of interrelated administrative problems. Prerequisites: Mathematics 61 and senior standing in the College.

126. (Formerly 148.) Business and Modern Society. Each sem. Cr. 3. An analysis of our business system and its interrelationships with other institutions in our pluralistic society, and the mutual influence of ethics, changing value systems and business behaviors; social responsibilities of the corporate citizen. Prerequisite: senior standing in the College.

127. Ethics in Business. Sem. 2. Cr. 3. An analysis of moral bases for ethical decision and behavior in the accounting of business leadership, contemporary business conduct examined in an ethical context. Prerequisite: senior standing in the College.

128. (Formerly 187.) Application of Quantitative Methods. Sem. 2. Cr. 3. A course focusing on the synthesis of the quantitative analysis skills developed in Courses 22 and 23 with the generic knowledge gained in the various "principles" courses. With the guidance of the instructor, small groups of students will engage a field site and identify, structure, and analyze a management problem. Emphasis is on the clarity of problem formulation, rigor of methods application, and effectiveness in the presentation of results. Prerequisites: Administrative Sciences 22 and 23, senior standing in the College, and consent of the chairperson of the department. Laboratory fee, $5.00.

MARKETING.

31. Introduction to Marketing Management. Each sem. Cr. 3. An introductory course surveying the marketing system and its components, marketing goals and services as they relate to the role of the marketing manager. Emphasis is placed upon the major elements of the marketing mix: price, promotion, products and distribution.

*Credit for Management 21 may be earned through the College Level Examination Program (CLEP) subject examination in Introduction to Business Management.

*Credit for Statistics 22 may be earned through the College Level Examination Program (CLEP) subject examination in Statistics.
131. (Formerly 132.) Case Studies in Marketing Management. Each sem. Cr. 3. An advanced marketing management course stressing the application of principles and techniques to realistic profit and non-profit organizational problems. The case method is utilized. Prerequisite: Administrative Sciences 31.

132. (Formerly 131.) Retailing. Sem. 1. Cr. 3. A study of the contemporary environment of the retailing industry with emphasis on techniques utilized in store location, merchandising, promotion, and cost of doing business. Prerequisite: Administrative Sciences 31.

133. Promotional Techniques. Each sem. Cr. 3. An introductory study of the marketing communications process. The promotional tools of advertising, personal selling and public relations are covered. Prerequisite: Administrative Sciences 31.

137. Consumer Behavior. Sem. 2. Cr. 3. A study of the factors entering into the decision-making process employed by the consumer in the marketplace. Applications of the behavioral sciences to the field of marketing are undertaken. Prerequisites: Administrative Sciences 31 and 131.

139. Problems in Marketing. Each sem. Cr. 1-3. A course in which a special topic in marketing will be given intensive study. The topic may vary for each offering. May also be used for independent study. Prerequisite: senior standing in the College or consent of the chairperson of the department.

PERSONNEL-PRODUCTION.

41. (Formerly 142.) Management of Human Resources. Each sem. Cr. 3. The effective utilization of human resources, the policies relating to manpower planning, selection, placement, compensation, training and union relations. Prerequisite: Administrative Sciences 31.


51. (Formerly 141.) Production Management. Each sem. Cr. 3. An introduction to the basic production operations: relating to plant location, plant layout, product design, industrial research, material handling, production planning and control, inventory, quality control, work measurement, plant safety and industrial hygiene. Prerequisite: Administrative Sciences 21.

145. Industrial Relations. Sem. 1. Cr. 3. Employer-employee relations relating to unions, the negotiations of collective bargaining agreement, contract administration, grievance procedure and arbitration, wage determination and inflation. Prerequisite: Administrative Sciences 41.

153. Production Planning and Control. Sem. 2. Cr. 3. Planning and forecasting for production, inventory control, economic lot size, scheduling, dispatching, machine loading, mathematical programming, and budgetary control. Prerequisites: Administrative Sciences 23 and 51.

159. (Formerly 149.) Problems in Personnel-Production. Each sem. Cr. 1-3. A course in which a special topic in Personnel-Production will be given intensive study. The topic may vary for each offering. May also be used for independent study. Prerequisite: senior standing in the College or consent of the chairperson of the department.

BUSINESS LAW AND FINANCE.

60. (Formerly 51.) Risk and Insurance. Each sem. Cr. 3. An introduction to risk and risk bearing for business and individuals. Topics include the theory of risk, the insurance mechanism, insurance techniques, and a survey of insurance functions by principal types of coverage. Prerequisite: Accounting 2.

61. Principles of Finance. Each sem. Cr. 3. A survey of the principles of finance from the viewpoint of the manager. The courses will cover current asset management, capital budgeting, sources of long and short-term financing, money and capital markets, failure and reorganization, and cost of capital. Prerequisite: Accounting 2.

62. (Formerly 53.) The Legal Environment of Business. Each sem. Cr. 3. A survey of the laws as an environmental influence in business including the law of torts and crimes; and a study of the law of contracts and agency. Prerequisite: sophomore standing in the College or consent of the chairperson of the department.

*Credit for Business Law 62 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Business Law.

173. **Comparative Economic Systems.** Sem. 1. Cr. 3. A comparative analysis of political theories and the economic systems that derive from those theories. The course will focus on those ideological assumptions that result in capitalism, socialism, fascism, anarchism, etc. as the solution to economic problems. Prerequisites: Economics 71 and 72.

174. **Public Finance.** Sem. 2. Cr. 3. An analysis of the role of the public sector in a market economy. Public revenues and expenditures, fiscal administration, and taxation are considered as they relate to economic activity. Prerequisites: Economics 71 and 72.

176. **International Economics.** Sem. 2. Cr. 3. A study of the theory underlying the methods of financing international trade, the deviations from and the restoration of equilibrium and the problems associated with foreign investment and indebtedness. Prerequisites: Economics 71 and 72.

177. **Modern European Economic History.** Sem. 2. Cr. 3. A history of the economic development of Western Europe from 1750 to the present. Emphasis is placed on the role of the industrial revolution and its impact on modern society. Prerequisites: Economics 71 and 72.

178 (278). **Economic History of the United States.** Sem. 1. Cr. 3. The history of the economic development of the United States from the colonial period to the present. Prerequisites: Economics 71 and 72.

181. **Economics of Developing Nations.** Sem. 1. Cr. 3. An analysis of economic variables, both theoretical and institutional, which characterize developing nations. Emphasis is placed on cyclical poverty, allocation of resources and policy planning. Prerequisites: Economics 71 and 72.

182. **Urban Economic Problems.** Sem. 2. Cr. 3. An examination of the regional and spatial characteristics of cities with an emphasis on policies to correct urban problems. Transportation, housing, poverty, and discrimination plus other substantive urban problems will be analyzed and discussed. Prerequisites: Economics 71 and 72.

183. **Economics of Labor.** Sem. 1. Cr. 3. The approach of workers and employers to the problems of labor; the development of trade unions and collective government regulation of labor relationships; and an economic analysis of wage-employment problems. Prerequisites: Economics 71 and 72.

185. **Money and Banking.** Sem. 1. Cr. 3. A study of the institutions, principles and problems of money and banking in the U.S. Special attention is given to the basic elements of monetary theory and policies. Prerequisites: Economics 71 and 72.

186 (286). **Intermediate Micro-Economic Theory.** Sem. 1. Cr. 3. A study of the theoretical concepts and analytical techniques which economists employ to interpret the process of resource allocation under various systems of economic organization. Prerequisites: Economics 71 and 72.


188. **Monetary Theory and Policy.** Sem. 2. Cr. 3. An examination of monetary theories and their impact on aggregate economic behavior. Prerequisite: Economics 185.

189 (289). **The History of Economic Thought.** Sem. 1. Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisites: Economics 71 and 72.

198. **Independent Study in Economics.** Each sem. Cr. 1-3. Independent study to be approved by the chairperson and advising economics professor.

199 (299). **Problems in Economics.** Each sem. Cr. 3. A course in which a special topic in economics will be given intensive study. The topic will vary from year to year. Prerequisites: Economics 71 and 72. Recommended for senior or graduate students.

*Credit for Economics 185 may be earned through the College Level Examination Program (CLEP) subject examination in Money and Banking.*
CURRICULA AND DEPARTMENTS. Four-year curricula are offered leading to the degrees of Bachelor of Science in Civil, Electrical, and Mechanical Engineering. Special options are available which combine work in chemistry and biology for a pre-medical program or to prepare for a career in bio-engineering or chemical engineering. These programs are accredited by the Engineers' Council for Professional Development. A double-degree program is also offered for students desiring to earn the degree of Bachelor of Arts in addition to the degree of Bachelor of Science in Engineering.

The College is a member of the Engineers' Council for Professional Development and an institutional member of the American Society for Engineering Education.

ENGINEERING EDUCATION. The College recognizes the responsibility to offer a program which is strong in engineering fundamentals yet broad in liberal arts.

The University believes that it is important for the engineer to have a proper perspective of the social, moral, and ethical problems of today. It further believes that such a perspective can be gained only by full participation in the academic, social, cultural, and spiritual life of a Christian university. The College has been made an integral part of the University in order to give the student this opportunity to participate in all phases of University life.

ACADEMIC PROGRAM. The programs of the College prepare the student for either industry or graduate school. The first one and one-half years are designed to give the student a good general education, including a firm foundation in mathematics and the physical sciences. During the following two and one-half years the student receives a broad education in the particular field of engineering that is chosen. In the senior year the student has the option to select courses oriented toward graduate school or terminal design courses oriented toward industrial employment. All programs contain extensive laboratory work which demonstrate practical applications and support the theory taught in the classroom. In addition, each senior student works on an independent study project in an area of personal interest. Many of these projects involve solving real engineering problems supplied by industry.

One-fourth of the engineering program is devoted to non-technical course work. These courses are placed throughout the four years and include religion, literature, English composition, economics, public speaking, and several electives. The academic program plus participation in the life of the University help the student mature socially and spiritually, as well as professionally.

LOCATION. The University's location, approximately fifty miles from the heart of Chicago and a short distance from the Calumet and St. Joseph Valley industrial areas of Indiana, provides opportunity for close contact with industry through inspection trips. Student members of the professional engineering societies are welcome at meetings of the parent societies in the area.

ORGANIZATION. The College constitutes a separate administrative and instructional unit of the University and is under the direction of the Dean of the College. It is divided into the Departments of Civil Engineering, Electrical Engineering, and Mechanical Engineering. The College places its major emphasis on producing an outstanding undergraduate program.
PLANT AND Facilities. The College is located in the Gellersen Engineering-Mathematics Center. This building was made possible through the generosity of the late William A. Gellersen of Oakland, California, and houses the offices, classrooms, and laboratories of the College as well as the offices, classrooms and computer center of the closely-related Department of Mathematics of the College of Arts and Sciences.

The Laboratories of Civil Engineering. Materials Testing Laboratory. This laboratory contains equipment necessary to conduct investigations of the behavior of real engineering materials under static, impact, and cyclic loading conditions. This equipment includes both mechanical and hydraulic universal testing machines with capacities up to 60,000 pounds for applying tensile, compressive, torsional, and flexural loads. Fatigue testing machines are also available for applying alternating direct stress and/or bending stress to test specimens or to actual machine or structural components. In addition, instrumentation is available for measuring and recording the deformation and deflection resulting from the applied load.

Fluid Mechanics Laboratory. This laboratory contains apparatus for instructional use and senior project research including a large subsonic wind tunnel, tilting flume, impulse turbine, pipe network, centrifugal pump test stand, Hele-Shaw unit, Reynolds apparatus, a set of instructional films, and extensive supporting apparatus.

Environmental Engineering Laboratory. This laboratory is equipped with apparatus required for physical, chemical, and bacteriological analyses of air, water, waste water, and solid wastes. The laboratory is also equipped to handle individual investigation and research studies by the students and staff in the field of environmental engineering.

Concrete and Soil Mechanics Laboratory. This laboratory contains the equipment required for conducting the ASTM standard tests on Portland cement, aggregates, cement and masonry products and soil as an engineering material. Among the major pieces of equipment are a 400,000 pound compression testing machine, direct shear, unconfined compression, consolidation and triaxial testing machines.

The Laboratories of Electrical Engineering. Electrical Science Laboratory. This laboratory is equipped to give instruction in basic electrical instrumentation and circuits. Work stations are equipped with signal generators, power supplies, oscilloscopes, and components necessary for study of elementary electrical, electronic and electromechanical circuits and systems.

Electronics Laboratory. This laboratory is equipped with the electronic instruments and components necessary for conducting studies of semi-conductor devices and circuits, active and passive networks, and characteristics of signals. A typical work station for a group of two students includes an oscilloscope, power supplies, a signal generator, and necessary electronic components. This laboratory is equipped so that students may design and construct prototype electronic circuits and systems.

Energy Conversion. This laboratory is equipped to conduct studies of the behavior of electrical energy conversion devices and their control under static and dynamic conditions. It contains medium and fractional horsepower A.C. and D.C. motors, generators, and dynamometers.

Microwave Laboratory. This laboratory is equipped with instruments for making precision measurements of electrical quantities at microwave frequencies. It contains signal sources, slotted lines and wave guides, and antennas for the study of propagation of electrical energy at high frequencies.

Systems Analysis Laboratory. This laboratory is equipped with electromechanical and electrohydraulic devices and components, transducers, recorders, and breadboard apparatus. Analog computers and special measuring devices are used for component modeling and system studies.

Digital Circuits Laboratory. This laboratory contains equipment for studies in digital electronic circuit design and testing. Several microcomputers are used for projects in digital systems design.

The Laboratories of Mechanical Engineering. Controls. This laboratory is equipped for the study of closed loop control systems. Small scale process systems, including pressure, temperature, flow and level control loops, are available for experimentation. Electronic and pneumatic analogs, with associated commercial controllers, are also available to test control loop fundamentals related to machine and process applications.

Heat Transfer and Gas Dynamics. This laboratory is equipped with a heat exchanger, natural convection loop, refrigeration and air conditioning units, blowers, compressors, shock tube, flow table, thrust stand, a supersonic wind tunnel, and necessary instrumentation for the study of heat transfer and compressible fluid flow.

Manufacturing Processes. This laboratory complex provides facilities for metal cutting, metal forming, welding, heat treatment and metal casting studies. The equipment contained in these laboratories include: tracer and numerically controlled machines, standard tool room equipment, production equipment, a television equipped metallograph, heat treating and casting furnaces, and welding equipment.

Measurements. This laboratory contains equipment for measuring pressure, temperature, force, strain, displacement, and numerous other physical phenomena. Auxiliary equipment is available to study calibration techniques, and to determine instrument limits in response to both static and dynamic signals.

Vibration and Sound. This laboratory contains a vibration table, electrical and mechanical excitation equipment, system models, sound chamber, and sound measuring instrumentation.

Design. Although no single room is available, experiments in the area of lubrication, stress concentration, fatigue strength, and critical speeds of shafting are performed in the above-named laboratories.
Interdepartmental Laboratories.

Television Center. This facility is equipped with a control room for the preparation of videotapes and videocassettes for instructional use and student self-evaluation. Television cameras, recorders, monitors, special effects, and distribution equipment are operated by trained personnel to provide supplementary audio-visual material for the classroom teacher. The facility also houses dial-access and videocassette study carrels which are provided for independent study and/or review of material at times convenient to the student. The study carrels are also available for use by other academic departments of the University.

The Computer Center. The digital computer laboratory, which is under the administrative direction of the academic computing center, is housed in the Gellersen Engineering-Mathematics Center and is available for use by the students and faculty of the College of Engineering. The Center is equipped with a Hewlett-Packard 3000-11 digital computer system. The Center also houses key punches, and terminals to access the computer. This system is used for academic purposes only.

STUDENT ORGANIZATIONS. Professional development of engineering students is encouraged through the activities of the Engineering Society. Upper division students are encouraged to join the local student chapters of the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the Institute of Electrical and Electronic Engineers. Officers of these Founder Societies form the Joint Engineers Council which administers the affairs of the Engineering Society. The Engineering Society conducts a general interest program for all engineering students and sponsors social and recreational activities for the College.

The Engineering Supply Store is a student operated nonprofit store that supplies students with engineering materials at reduced prices. Surplus earnings are used to finance Engineering Society activities.

TAU BETA PI. Junior and senior students who have distinguished themselves by high scholarship, exemplary character, unselfish activity, and breadth of interest in their profession may be elected to membership in this national engineering honorary fraternity. The Delta Indiana chapter was installed at Valparaiso University on March 23, 1963. The chapter serves to replace Applin Society, which was a local honorary organization founded in 1959.

PROFESSIONAL REGISTRATION OF ENGINEERS. Registration of anyone who wishes to practice professional engineering is required by law in each of the states and the District of Columbia. The purpose of the law is to assure the general public that anyone professing to practice engineering has had his/her qualifications examined and accepted by a State Board of Examiners. It is desirable, therefore, that every engineering graduate apply for registration as an Engineer-in-Training (EIT) shortly before or upon graduation. EIT examinations for the State of Indiana are held each spring at Valparaiso University and at other institutions offering accredited engineering programs.

SPECIAL PROGRAMS. Programs can be planned which meet special needs of students who study engineering at Valparaiso. Typical career programs are in nuclear engineering, medicine, bio-engineering, or chemical engineering. These programs involve replacing some technical and free electives with courses in chemistry and biology. Each student plans a program in consultation with his/her department head and must secure the approval of the Dean of the College. Upon graduation, the student receives a Bachelor of Science degree in Civil, Electrical, or Mechanical Engineering.

Students who have an interest in nuclear engineering take modern physics and reactor courses offered by the Department of Physics. The Department of Physics has an excellent new reactor facility.

DOUBLE-DEGREE PROGRAM. This program leads to the degree of Bachelor of Arts in addition to the Bachelor of Science. Five years are usually required to complete this program, although exceptional students have completed it in less time.

A student may earn two degrees by completing one of the engineering curricula and completing the general education requirements of the B.A. degree as well as completing the academic major. This will require him/her to earn 166 credit hours and to have a standing of at least two (2.00) in all his/her work. Students electing such a program must have their schedules approved by both the Dean of the College of Arts and Sciences and the Dean of the College of Engineering at the beginning of each semester. Students interested in this program can get further information from the Dean of the College.

ADMISSION. The requirements for the first-year class are set forth on page 55 of this bulletin.

GRADUATION REQUIREMENTS. In addition to the requirements set forth on page 65 of this bulletin, the student must complete one of the prescribed curricula.

MINOR. A student is allowed to declare a minor (including the General Business Minor) in the College of Arts and Sciences, provided that no more than six hours required for the engineering program are used in fulfilling the requirement of a minor. The minor will be listed on the student's official academic record.

THE COLLEGE AND CHRIST COLLEGE. Certain students enrolled in the College may be invited to participate in the program of Christ College. For administrative purposes, these students will be enrolled in the College of Engineering. They will pursue a normal engineering program, but may substitute courses offered in Christ College for a portion of the required and elective courses offered in the College of Arts and Sciences. These students will be assigned an academic adviser who is a member of the faculty of the College of Engineering as well as a member of the Christ College Committee of the University. In conjunction with their advisers, and with approval of the Dean of the College, these students will plan and execute an enriched program taking advantage of the specialized courses not normally offered within the departmental framework of the various colleges; the intention of such a program is to prepare a student to meet both personal and professional educational goals in a much more comprehensive manner.

HONORS WORK. A student of exceptional ability may pursue a program of independent study or research during his/her senior year. Details of this program must be worked out with the department chairperson and have the approval of the Dean of the College.

INSPECTION TRIPS. Trips to industrial plants are arranged and conducted by members of the engineering faculty and are designed to correlate the instruction with the industries visited.
PLACEMENT. Each year the University Placement Service provides arrangements so that interested organizations may interview students on campus. The Placement Service will also make contacts for students with firms who are not in a position to interview prospects on campus. Representatives from approximately two hundred organizations from all parts of the United States visit the campus each year seeking engineering students.

APPROVAL OF SCHEDULES. All engineering students must have their schedules approved by their advisers at the beginning of each semester.

ENGINEERING CURRICULA (Four-Year Program).
The first one and one-half years are common to all departments.

(In the three columns for each semester, the first is the number of lecture hours per week; the second the number of laboratory hours per week; and the third the number of semester hours of credit.)

FIRST YEAR.
First Semester.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 75. Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE 10. Religion</td>
<td>3</td>
</tr>
<tr>
<td>GE 12. Programming for Calculus</td>
<td>2</td>
</tr>
<tr>
<td>PE 69/GE 90. Energy Systems/Mechnics-Statics</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
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Second Semester.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>M 76. Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>E 5. Exposition and Argument</td>
<td>4</td>
</tr>
<tr>
<td>PE 90/GE 69. Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>GE 14/GE 63. Mechanics/Engineering Science I</td>
<td>3</td>
</tr>
<tr>
<td>Graphics/Engineering Science I</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits</td>
<td>17</td>
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</table>

SECOND YEAR.

First Semester.

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>M 77. Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Ch 51E. General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GE 35. Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>GE 94. Mechanics-Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>R</td>
<td>3</td>
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<td>Total Credits</td>
<td>18</td>
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Second Semester.

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>M 102. Linear Algebra and Its Applications</td>
<td>4</td>
</tr>
<tr>
<td>CE 100. Surveying</td>
<td>2</td>
</tr>
<tr>
<td>GE 64. Engineering Science II</td>
<td>3</td>
</tr>
<tr>
<td>EE 96. Principles of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Total credits</td>
<td>17/18</td>
</tr>
</tbody>
</table>

A transfer student may apply a maximum of 3 credits in religion from his advanced standing to the religion requirement. A transfer student with more than 68 credits of advanced standing need only complete one course (3 credits) of religion at Valparaiso University.

CIVIL ENGINEERING

STAFF: Professor Peller (Chairman); Professors El-Naggar and Mortimer; Associate Professors Schueler and Spring

THIRD YEAR.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CE 103. Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE 105. Fluid Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>CE 112. Mechanics of Materials II</td>
<td>3</td>
</tr>
<tr>
<td>CE 120. Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>E 25. Literary Studies</td>
<td>4</td>
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<tr>
<td>Total Credits</td>
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FOURTH YEAR.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CE 115. Structural Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>CE 117. Structural Design II</td>
<td>3</td>
</tr>
<tr>
<td>CE 163. Transportation</td>
<td>3</td>
</tr>
<tr>
<td>CE 165. Environmental Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>CE 190. Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>
# MECHANICAL ENGINEERING

**STAFF:** Associate Professor Schoech (Chairman); Professors Kruger, Lehmann (Dean), and Zoos; Associate Professors Rose and Steffen; Assistant Professors Doris and Heuer; Mr. Kusch

**THIRD YEAR.**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 162. Systems Theory</td>
<td>ME 188. Machine Design</td>
</tr>
<tr>
<td>ME 170. Thermodynamics</td>
<td>ME 179. Heat Power Design</td>
</tr>
<tr>
<td>EE 190. Independent Study</td>
<td>ME 189. Independent Study</td>
</tr>
<tr>
<td>Project I &amp; II</td>
<td>Project I &amp; II</td>
</tr>
<tr>
<td>Credits 17</td>
<td>Total Credits 17</td>
</tr>
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</table>

**FORTH YEAR.**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 190. Independent Study</td>
<td>ME 181. Automatic Control</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
</tr>
<tr>
<td>Credits 17</td>
<td>Total Credits 17</td>
</tr>
</tbody>
</table>

**Comment:** 27 credits of electives required as follows:
- 15 credits of technical electives of which at least 12 credits must be in mechanical engineering.
- 6 credits of electives to be selected from any University offering.
- 6 credits of general education electives approved by the Dean.

Total Credits, 136

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**UNDERGRADUATE CREDIT.**

**GENERAL ENGINEERING.**

GE 4. Elementary Graphics. Sem. 2. 1+3, Cr. 2. A course of study designed to acquaint the student with the graphic language-techniques (lettering and line work), scale drawing and size description, orthographic projection, sectional representation, and other conventional methods, graphic theory involving lines and plane relationships, and pictorial representation (perspective and isometric). Emphasis on blue-print reading and interpretation of plans and elevations. Brief survey of methods, practices, and techniques of home construction. (Not open to engineering students.) Prerequisite: sophomore standing. Laboratory fee, $5.00. (Given in alternate years.)

GE 10. Introduction to Engineering. Sem. 1. Each 7 weeks. 1+2, Cr. 1. Concepts of significant figures and errors in calculations, units, physical modeling, and structuring problems for solution are introduced through engineering experiments.

*See page 72 for the number of credits that may be applied toward a degree offered by the College of Arts and Sciences.*
GE 12. Programming for Calculus. (Formerly Fortran for Calculus.) Sem. 1. Each 7 weeks. 2+0, Cr. 1. An introduction to digital computer programming (BASIC) for students planning to take the calculus sequence Mathematics 75 and 76. Students with extensive programming experience may receive academic credit for GE 12 by examination. Contact the Mathematics Department for details.

GE 14. Graphics. Each sem. 1+4, Cr. 2. A basic course in the theory and techniques of engineering graphics. Emphasis is placed on theoretical geometric projections including line and plane principles in space, orthographic projections with auxiliary and oblique views, intersections and contours. Graphical accuracy, lettering, and technical graph techniques supplement theoretical concepts.

GE 63. Engineering Science I. Each sem. 2+0, Cr. 2. An introduction to the principles of wave motion including wave characteristics, interference, Doppler effect, refraction, reflection, polarization, and diffraction. Applications involve electromagnetic, sound, and water waves. Prerequisite: Mathematics 70 or concurrent registration.

GE 64. Engineering Science II. Each sem. 3+0, Cr. 3. A study of the fundamental laws of atomic and nuclear structure, including properties of the electron and the special theory of relativity as applied to atomic and subatomic particles. A study is included of the development of nuclear energy and its application and the use of isotopes in industry. Prerequisite: Mathematics 76.

GE 69. Energy Systems. Each sem. 3+0, Cr. 3. A basic course in heat and thermodynamics. The first and second laws of thermodynamics are emphasized through energy balances, conservation of energy and energy limits. Properties of fluids and vapors are studied using tables and charts, and the equation of the perfect gas. Functions, principles of construction, and actual performance of heat power machinery are analyzed to demonstrate theory and practice.

GE 90. Mechanics-Statics. Each sem. 3+0, Cr. 3. Resolution and composition of forces; couples; free-body diagram; principles of equilibrium; friction; first and second moments of areas.

GE 94. Mechanics-Dynamics. Each sem. 3+0, Cr. 3. Motion of a particle in rectangular, curvilinear, and polar coordinates; motion of a rigid body; forces involved in moving systems; work and energy relations; impulse and momentum; periodic motion. Prerequisites: Mathematics 76 or concurrent registration and GE 90.

GE 95. Electricity and Magnetism. Sem. 1. 3+3, Cr. 4. A study of the definitions and properties of electric and magnetic force fields. The application of Kirchoff's Laws to elementary DC and AC circuits is emphasized. Prerequisite: Mathematics 75. Laboratory fee, $10.00.

GE 101. Man and Technology. Cr. 3. A study of socio-technological problems and the development of concepts which lead to an understanding of the use and misuse of technology and science. No laboratory.

GE 189. Digital Computer Methods. Each sem. 2+0, Cr. 2. An introductory course in numerical methods using the digital computer. Topics include the following: programming for numerical methods, numerical analysis applied to the digital computer using the Fortran language, selected methods of numerical analysis applied to solutions of engineering problems, comparison of selected numerical methods. Prerequisites: Mathematics 77 or concurrent registration with previous exposure to Fortran and GE 12.

GE 195. Senior Problem. Each sem. Variable credit. Selected students are permitted to work out a special problem in their particular field under the supervision of a member of the faculty of engineering. An introductory experiment will be required to keep a progress notebook and to turn in a final report.

CIVIL ENGINEERING.

CE 100. Surveying. Sem. 2. 2+3, Cr. 3. A study of the science and art of absolute and relative spatial measurements for engineering purposes. Special emphasis is placed upon the theory of errors; use of surveying instruments; and field practice in transit-tape traversing, leveling, and route surveying. Prerequisite: Mathematics 75. Laboratory fee, $10.00.

CE 103. Mechanics of Materials. Each sem. 3+0, Cr. 3. Concepts of stress and strain-stress-strain relationships; states of plane stress and strain at a point; elementary analysis of stress distributions and deformations for axial loading of prismatic members, torsional loading of circular shafts, and bending of beams; combined loading; plastic and elastic action; and an introduction to statically indeterminate problems. Prerequisites: Mathematics 77 and GE 90.

CE 106. Fluid Mechanics I. Each sem. 2+3, Cr. 3. An examination of fluid properties, fluids at rest, and fluid flow including conservation of mass, momentum, energy, fluid friction, steady flow, potential flow, analysis and simulation, and fluid flow around submerged objects. Prerequisite: GE 94. Laboratory fee, $10.00.

CE 109. Structural Analysis I. Sem. 2. 4+0, Cr. 4. Analytical and graphical methods for the determination of deflection, shearing, and normal stresses and their resulting deflections. Common structural forms of both determinate and indeterminate types such as bridge and roof trusses, beam-structures, beams and frames will be treated. Influence line theory and energy methods will be introduced. Prerequisite: CE 103.

CE 112. Materials Engineering. Sem. 1. 1+3, Cr. 2. A study of the mechanical properties of engineering materials and the relationship between their behavior and the design of structural and machine components. The macro- and micro-structure of materials are studied and the elementary concepts of failure including fracture, yielding, and elastic instability are presented along with the classical theories of failure. Experimental investigations involving static yielding and fracture, high cycle fatigue, cryogenic temperature impact, and elevated temperature creep are conducted in the laboratory. Prerequisite: CE 103 or concurrent registration. Laboratory fee, $12.00.

CE 113. Fluid Mechanics II. Sem. 2. 2+0, Cr. 2. Application of the principles of fluid mechanics to solution of engineering analysis and design problems. Topics include: model testing, advanced closed conduit and open channel hydraulics, a study of reservoirs, ground water flow, and other items of current interest. Prerequisites: CE 106, CE 164, and GE 169.

CE 114. Engineering Management. Sem. 2. 3+0, Cr. 3. The application of engineering economic analysis to instruction projects using the case study approach. Introduction to methods of construction management and the role the engineer plays in interacting with client and contractor. Prerequisite: senior standing in the College.

CE 115. Structural Analysis II. Sem. 1. 3+0, Cr. 3. Analysis of statically indeterminate structures using the approximate method, classical methods and semi-elastic methods. Design problems will be introduced. These will include moment distribution, slope-deflection, matrix methods, elastic column analogy and digital computer approaches. Prerequisites: GE 106 and CE 109.

CE 116. Structural Design I. Sem. 2. 3+3, Cr. 4. The design of steel structural system components using elastic, interaction, semi-elastic methods. Design of bolts, rivets, pinned, and connected connections. Use of AISI and AASHTO codes in the design of steel buildings, plate girders, and bridges. Prerequisite: CE 109 or concurrent registration.

CE 117. Structural Design II. Sem. 1. 3+0, Cr. 3. The analysis and design of reinforced concrete structural system components using working-stress method and ultimate-strength method. Design problems will include bending, shear and diagonal tension, bond, compression members, slab design and footings. Prerequisites: CE 109 and CE 115.

CE 118. Structural Design III. Sem. 2. 2+2, Cr. 3. The design of structural system components using methods of composite design, plastic design and prestressed concrete design. Prerequisites: CE 116 and CE 117.

CE 120. Soil Mechanics. Sem. 1. 2+3, Cr. 3. The study of index, structural, mechanical, and hydraulic properties of soils. Soil compaction and stabilization. Theoretical soil mechanics, including shearing stress, pressure distribution, consolidation, active and passive states of plastic equilibrium, and flow through permeable media. Elementary principles of laboratory identification and testing of soils. Fundamental properties of plain concrete and its components, including batch design. Prerequisites: CE 103, CE 106, CE 112, or concurrent registration. Laboratory fee, $10.00.

CE 122. Soil and Foundation Engineering. Sem. 2. 3+0, Cr. 3. A continuation of CE 120. Further aspects of theoretical soil mechanics, including slope stability, lateral earth pressure and retaining walls, vertical pressure distribution and settlement, bearing capacity analysis, and load capacity of individual piles and pile groups. Propportioning of shallow and deep foundations. Subsoil post design techniques. Prerequisite: CE 120.

CE 163. Transportation. Sem. 1. 3+0, Cr. 3. A survey of the application of engineering principles to the location, design, and construction of highway systems, railroads, and airports. Prerequisite: CE 122.
CE 164. Environmental Engineering I. Sem. 2. 2+3, Cr. 3. The general aspects of society and the environment and the effects of pollution on nature's resources. Among topics considered are: water supply; water distribution; waste water problems; waste water collection; solid waste disposal; and study of air and water quality criteria. Field trips are required. Prerequisite: GE 80. Laboratory fee, $10.00.

CE 165. Environmental Engineering II. Sem. 1. 2+2, Cr. 3. The application of environmental pollution control principles to unit processes studies and design. Field trips are required. Prerequisite: CE 164.

CE 166. Environmental Engineering III. Sem. 1. 2+2, Cr. 3. The history of the air pollution problem. Study of the different types of pollutants and their effect on the environment as well as investigation of the methodology for determining air quality criteria and standards, regulations, and ordinances. Discussion of plans for the implementation of air pollution control. Prerequisite: CE 165.

CE 167. Traffic Engineering. Sem. 2. 2+2, Cr. 3. An introductory study of traffic flow; techniques for describing the flow and capacities of highways and intersections. Economic factors are considered. Prerequisite: CE 163.

CE 190. Independent Study Project I. Sem. 1. 1+3, Cr. 2. The application of theoretical and experimental engineering concepts and mathematical principles in the analysis, design, or investigation of an engineering system. Individual or group problems in the field of civil engineering to be selected by the student with the approval of the civil engineering faculty. Prerequisite: senior standing in civil engineering. Laboratory fee, $10.00.

CE 191. Independent Study Project II. Sem. 2. 1+3, Cr. 2. A continuation of the project selected in CE 190. Laboratory fee, $10.00.

ELECTRICAL ENGINEERING.

EE 80. Electronics and Scientific Instrumentation. (Also offered as Chemistry 80 and Physics 80.) Sem. 2. 2+3, Cr. 3. Modern electronic principles and devices are studied, with applications to scientific instrumentation. Laboratory experience with modern instruments is emphasized, and troubleshooting techniques are taught. Prerequisites: Physics 77 or concurrent enrollment and sophomore standing. Laboratory fee, $15.00.

EE 96. Principles of Electrical Engineering. Each sem. 3+3, Cr. 4. Principles and applications of electronics and electromagnetic devices. Laboratory work in basic rotating machines, transformers; semiconductor circuits, logic circuits, amplifiers, and instrumentation, Prerequisite: GE 95. Laboratory fee, $10.00.

EE 127. Laboratory I. Sem. 2. 0+3, Cr. 1. Experimental study of linear and nonlinear circuits and instrumentation techniques. Prerequisite: GE 95. Laboratory fee, $10.00.

EE 128. Linear Circuits. Sem. 2. 3+0, Cr. 3. A study of the fundamental methods and theorems of electric circuit analysis. Emphasis is placed on both analytical and computer aided methods for steady state analysis of DC and AC circuits, transient and complete response of first and second order circuits, frequency domain analysis, and two port circuits. Prerequisite: GE 95.

EE 129. Nonlinear Circuits. Sem. 2. 3+0, Cr. 3. A study of the methods used to characterize nonlinear elements and to analyze the circuits in which they are used. Topics include the i-v characteristics of diodes, transistors, and composite electronic devices; elementary circuits; Boolean algebra; and digital devices and circuits. Prerequisite: GE 95.

EE 131. Electromagnetic Field Theory. Sem. 1. 3+0, Cr. 3. The study of fundamental laws of static and dynamic electric and magnetic fields using vector methods. Boundary value problems, Maxwell's equations, and electromagnetic radiation. Prerequisite: Mathematics 77.

EE 132. Laboratory II. Sem. 1. 0+6, Cr. 2. The study of signals and signal processing circuits emphasizing instrumentation and measuring techniques. Prerequisite: concurrent registration in EE 135 or EE 140. Laboratory fee, $10.00.

EE 133. Laboratory III. Sem. 2. 0+6, Cr. 2. A study of electromagnetic energy conversion devices and an introduction to the design and construction of prototype analog and digital electronic systems. Prerequisites: concurrent registration in EE 138 and EE 143. Laboratory fee, $10.00.

EE 135. Network Analysis. Sem. 1. 3+0, Cr. 3. A study of methods used in the analysis of linear electrical networks. Topics include magnetically coupled circuits, polyphase circuits, Fourier methods, LaPlace transforms, matrix equation formulations, network transfer functions, and analysis and synthesis of passive and active filters. Prerequisite: EE 128.

EE 138. Energy Conversion. Sem. 2. 3+0, Cr. 3. A study of electromagnetic devices with emphasis on the principles and operating characteristics of transformers and rotating electrical machines. Prerequisites: GE 95 and concurrent registration in EE 133.

EE 140. Electronics. (Formerly Electronics I.) Sem. 1. 3+0, Cr. 3. A study of basic theory of semiconductors and the operation of diodes, transistors, and integrated circuits. The hybrid model for transistors is developed and applied to elementary amplifiers. Design techniques for biasing discrete and integrated amplifiers are studied. Prerequisite: EE 129.

EE 143. Digital System Design. Sem. 2. 3+0, Cr. 3. A course in the design of digital systems by classical techniques. Synchronous and asynchronous circuits and data path design. Prerequisite: EE 129 or consent of the instructor.

EE 153. System Theory I. Sem. 2. 3+0, Cr. 3. An introduction to system analysis with emphasis on linear time-invariant and discrete-time systems and an introduction to state space methods. Prerequisite: EE 135.

EE 154. System Theory II. Sem. 1. 3+0, Cr. 3. A continuation of System Theory I. Modern automatic control techniques and selected topics. Prerequisite: EE 153.

EE 158. Communication Theory. Sem. 2. 3+0, Cr. 3. The effects of system bandwidth and noise on the transmission of information by electrical signals; amplitude modulation; frequency modulation; pulse modulation; sampling theorem; information measure; channel capacity. Prerequisite: EE 153.

EE 190. Independent Study Project I. Sem. 1. 1+3, Cr. 2. The application of theoretical and experimental engineering concepts and mathematical principles to the analysis, design, and investigation of an engineering system. Individual or group problems in the field of electrical engineering are selected by the student with approval of the faculty. Prerequisite: senior standing in electrical engineering. Laboratory fee, $10.00.

EE 191. Independent Study Project II. Sem. 2. 1+3, Cr. 2. A continuation of the project selected in EE 190. Laboratory fee, $10.00.

TECHNICAL ELECTIVES.

EE 144. Microwaves. Sem. 2. 3+3, Cr. 4. An introduction to guided waves. Microwave devices and systems with a detailed study of wave-guides; microwave circuit theory; antennas; and microwave electronic devices including parametric amplifiers and lasers. Laboratory experiments emphasize measuring technique and system performance. Prerequisite: EE 131. Laboratory fee, $10.00.

EE 146. Power Electronics. Sem. 1. 7 weeks. 4+0, Cr. 2. A course in the application and design of power semiconductor circuits. Selected topics include rectifiers, AC controllers, choppers, inverters, and converters. Prerequisite: EE 140.

EE 147. Communication Electronics. Sem. 2. 7 weeks. 4+0, Cr. 2. A course in the analysis and design of electronic circuits used in the communication of electric signals. Selected topics include differential amplifiers, oscillators, multipliers, discrete and integrated amplifiers, andactive filters. Prerequisite: EE 140.

EE 149. Topics In Electrical Engineering. Each sem. 7 weeks or 14 weeks. Cr. 2-3. The investigation of electrical engineering topics of special interest. Prerequisite: consent of the chairperson of the department.

EE 150. Microprocessor Applications. Sem. 1. 3+0, Cr. 3. The application of programmable logic devices in the design of electrical engineering circuits and systems. The organization, programming, and interfacing of microprocessors and associated electronics are studied. Prerequisite: EE 143.

EE 155. Power System Engineering. Sem. 1. 3+0, Cr. 3. Power system components, load flow and the control of voltage and energy are studied. System fault studies are related to system protection. Prerequisite: EE 138.
Standing in mechanical engineering. Laboratory fee, tolerance, and statistical properties of engineering elements are applied to design and production of industrial facilities are arranged. Prerequisite: GE 14 and ME 187 or consent of the chairperson of the department. Laboratory fee, $10.00.

ME 170. Thermodynamics. Each sem. 3+0, Cr. 3. The study of the second law of thermodynamics to reversible and irreversible processes, entropy, real gases, gas and gas-vapor mixtures. The application of thermodynamic principles to the study of vapor and gas cycles. Prerequisite: GE 69.

ME 172. Fluid Dynamics. Sem. 1. 3+0, Cr. 3. The study of fluid flow, both compressible and incompressible, in variable and constant area ducts. The control volume method is employed in application of the conservation equations to flow systems. Fluid dynamics theory is applied to engineering design. Prerequisites: GE 94 and ME 170 or concurrent registration.

ME 173. Mechanical Measurements Laboratory. Sem. 2. 2+3, Cr. 3. Investigations into typical industrial and laboratory primary transducers and readout equipment in the mechanical measurement systems. Dynamic as well as static measurements are emphasized. Prerequisite: GE 52E and GE 90. Laboratory fee, $10.00.

ME 177. Heat Transfer. Sem. 2. 3+0, Cr. 3. The principles and practice of heat transfer by conduction, radiation, free and forced convection, vapor condensation, and boiling liquids. Unsteady state heat transfer, dimensional analysis, analytical and graphical solutions to engineering problems related to heat exchangers. Prerequisite: Mathematics 104.

ME 179. Heat Power Design. Sem. 1. 2+3, Cr. 3. The design of systems and equipment applying thermodynamic, flow and heat transfer fundamentals to power generation, energy conversion and environmental control. Interrelation of theory and practice based on reliability, safety, environmental and economic considerations is incorporated in both lecture and laboratory study. Emphasis will be placed on spark and compression ignition engines, steam and gas turbine power plants, and pollution considerations of combustion processes. Prerequisite: senior standing in mechanical engineering. Laboratory fee, $10.00.

ME 180. Mechanics. Sem. 1. 3+0, Cr. 3. A study of the kinematics of mechanisms by graphical and analytical methods; displacement, velocity, and accelerations of linkages, cams, and gears are investigated. Function, motion, and path generation synthesis techniques are considered. Prerequisites: Mathematics 77 and concurrent registration in GE 94 and GE 169.

ME 183. Machine Design. Sem. 1. 2+3, Cr. 3. The rational application of topics developed in Mechanics of Materials to the design of machine elements. Theories of failure, stresses, contact stress, stress concentration, fatigue, and deflection analysis are considered in relation to the design of shafting, springs, fasteners, and general mechanical elements. Prerequisite: CE 160.

ME 186. Manufacturing Processes. Sem. 2. 2+6, Cr. 4. A study of manufacturing methods including production drawings, tools, operation planning, materials, fabrication techniques, and inspection. Machinability of materials, application of machine tools, welding, casting, heat treating, and numerical control are introduced through lecture and laboratory work. Field trips to industrial facilities are arranged. Prerequisites: GE 14 and ME 187 or consent of the chairperson of the department. Laboratory fee, $10.00.

ME 187. Statistical Engineering. Sem. 1. 2+3, Cr. 3. An introduction to the application of statistics and probability theory in the solution of engineering problems. Concepts of variance, tolerance, and statistical properties of engineering elements are applied to design and production problems. The algebra of normal functions, engineering economics, and statistical quality control techniques are related to manufacturing, reliability, and maintainability. Prerequisite: Mathematics 77 or concurrent registration.
The College offers a four-year curriculum leading to the degree of Bachelor of Science in Nursing.

The College also admits registered nurses who want to earn a baccalaureate degree. Registered nurses may complete the requirements for the Bachelor of Science in Nursing degree in less than four years by passing standardized tests and transferring acceptable college credits.

**OBJECTIVES.** The purposes of the College are to prepare professional nurses who will:

- Use the nursing process in caring for persons with varying complexities of health needs in a variety of settings;
- Utilize interpersonal skills with patients/clients, colleagues, and the public to establish and maintain effective professional relationships;
- Assume a leadership role in providing high standards of nursing care;
- Assume responsibilities of a professional for the maintenance and the promotion of high standards of health care;
- Recognize research as a scholarly method of validating and improving nursing practices;
- Assume responsibility for continued personal and professional growth; and
- Recognize the value of the individual's religious belief as an inner resource in motivating and guiding the life of the individual.

In accordance with the philosophy of Valparaiso University, the faculty of the College believes its responsibility is to foster intellectual, emotional, and spiritual growth of the student as an educated person and as a competent professional nurse. The curriculum, therefore, includes a wide variety of foundation courses in the natural and social sciences and in the liberal arts, as well as courses which lead to the mastery of the principles and practices of nursing. Throughout, the development of Christian character and the inculcation of Christian ideals are emphasized.

**GRADUATION REQUIREMENTS.**

In order to realize its objectives, the College holds the students to the following requirements:

A. A minimum of 58 credits in nursing. The specific requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Introduction to Clinical Nursing</td>
<td>6 credits</td>
</tr>
<tr>
<td>Maternal-Child Health</td>
<td>8 credits</td>
</tr>
<tr>
<td>Nursing in Chronic Illness</td>
<td>6 credits</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>2 credits</td>
</tr>
<tr>
<td>Pathophysiology</td>
<td>3 credits</td>
</tr>
<tr>
<td>Nursing in Acute Illness</td>
<td>6 credits</td>
</tr>
<tr>
<td>Community Nursing</td>
<td>6 credits</td>
</tr>
<tr>
<td>Mental Health—Psychiatric Nursing</td>
<td>6 credits</td>
</tr>
</tbody>
</table>

1Leave of Absence, Academic Year 1977-1978.
MINOR. A student is allowed to declare a minor (including the General Business Minor) in the College of Arts and Sciences, provided that no more than six hours required for the nursing program are used in fulfilling the requirement of a minor’s academic record.

No more than six (6) credits earned in the College of Business Administration may be counted toward a degree of Bachelor of Science in Nursing. No more than four (4) credits in applied music, including ensemble, may be counted toward a degree of Bachelor of Science in Nursing.

Undergraduate Credit.

SUGGESTED COURSE PROGRAM.

FRESHMAN YEAR.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 43</td>
<td>Chemistry 44</td>
</tr>
<tr>
<td>Biology 50</td>
<td>Biology 115</td>
</tr>
<tr>
<td>Sociology 1</td>
<td>English 8</td>
</tr>
<tr>
<td>Religion</td>
<td>Psychology 140</td>
</tr>
<tr>
<td>Psychology 51</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Total Credits</td>
<td>Total Credits</td>
</tr>
<tr>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 110</td>
<td>Nursing 52</td>
</tr>
<tr>
<td>Psychology 100</td>
<td>Nursing 100</td>
</tr>
<tr>
<td>Psychology 53</td>
<td>Nursing 101</td>
</tr>
<tr>
<td>Religion</td>
<td>English 25</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>Total Credits</td>
</tr>
<tr>
<td>13</td>
<td>15</td>
</tr>
</tbody>
</table>

JUNIOR YEAR.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 103</td>
<td>Nursing 104</td>
</tr>
<tr>
<td>Nursing 105</td>
<td>Nursing 102</td>
</tr>
<tr>
<td>Biology 153</td>
<td>Religion</td>
</tr>
<tr>
<td>Elective</td>
<td>Total Credits</td>
</tr>
<tr>
<td>13</td>
<td>16</td>
</tr>
</tbody>
</table>

SENIOR YEAR.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 107</td>
<td>Nursing 106</td>
</tr>
<tr>
<td>Nursing 109</td>
<td>Nursing 108</td>
</tr>
<tr>
<td>Elective</td>
<td>Nursing 110</td>
</tr>
<tr>
<td>Total Credits</td>
<td>Total Credits</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits: 124

Note: The student is responsible for providing transportation whenever it is necessary for off-campus clinical experience. Access to a car is necessary during the junior and senior years.

Undergraduate Credit.

52. Introduction to Clinical Nursing. Each sem. 4 + 6, Cr. 6. Introduces the student to the nature and scope of professional nursing and to fundamental organizational, interpersonal, manipulative, and observational skills. Laboratory fee, $20.00.

100. Pathophysiology. Sem. 2. 3 + 0, Cr. 3. A study of pathologic conditions which stimulate alterations in physiologic behaviors and the body’s attempt to control these conditions. Prerequisites: Biology 110 and 115.

101. Pharmacology. Each sem. 2 + 0, Cr. 2. Introduces the principles of pharmacology with emphasis on commonly used groups of drugs as a foundation for further study in clinical nursing courses.

Note: The prerequisites for the following courses are Nursing 52, 100, and 101 and at least junior standing. See also requirements for admission statement above.

102. Nursing in Acute Illness. Each sem. 4 + 6, Cr. 6. Emphasizes the identification and application of scientific principles in nursing care and a problem-solving approach in meeting the nursing needs of patients with acute medical and surgical conditions. Laboratory fee, $10.00.

103. Maternal-Child Health I. Each sem. 2 + 6, Cr. 4. Focuses on the reproductive function of the family and the concomitant relationships of the family members during the childbearing and childrearing phases of the health continuum. Laboratory fee, $10.00.
104. Maternal-Child Health II. Each sem. 2+6, Cr. 4. The application of growth and development principles to the total health care of a child with special consideration and understanding of the effects of illness and hospitalization on the child and his/her family.

105. Nursing in Chronic Illness. Each sem. 4+6, Cr. 6. Study and practice in the nursing care of persons who have a chronic illness with emphasis on the principles of rehabilitation, the aging process, and related psychosocial and physiological concepts. Laboratory fee, $10.00.

Note: The prerequisites for the following courses are Nursing 102, 103, 104, and 105.

106. Leadership in Nursing Care. Each sem. 3+9, Cr. 6. Focuses on the basic principles of administration, teaching, and research as they apply to the management of a nursing unit, to team leadership, and to the improvement of patient care. Laboratory fee, $10.00.

107. Mental Health—Psychiatric Nursing. Each sem. 3+9, Cr. 6. Focuses on the major concepts of mental health and on the role of the nurse in prevention and care of the mentally ill. Laboratory fee, $10.00.

108. Seminar in Clinical Nursing. Each sem. 3+9, Cr. 6. Focuses on planning and implementing comprehensive care to patients with complex health problems and on utilizing the interdisciplinary team. Laboratory fee, $10.00.

109. Community Nursing. Each sem. 3+9, Cr. 6. Delineates organized community efforts for the promotion of health and prevention of disease and focuses on the role of the public health nurse in the family and the community. Laboratory fee, $10.00.

110. Nursing in the Social Order. Sem. 2. 3+0, Cr. 3. Focuses on the influences of social, political, economic, and religious forces on the development of nursing and on the present status of nurses.
UNIVERSITY CALENDAR FOR 1977-1978

1977

Fall Semester

August 29, Monday, 8:00 A.M. Instruction begins.
August 30 and 31, Tuesday and Wednesday. Registration during free periods.

October 8, Saturday. Homecoming Day.
October 14, Friday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in May or August, 1978.

November 18, Friday, 6:30 P.M. Thanksgiving recess begins.

November 28, Monday, 8:00 A.M. Thanksgiving recess ends.
December 9, Friday, 6:30 P.M. Instruction ends.

December 10, Saturday, 8:00 A.M. Reading period begins.
December 13, Tuesday, 6:30 P.M. Reading period ends.

December 14, Wednesday, 8:00 A.M. Final examinations begin.

December 23, Friday, 6:30 P.M. Final examinations end. Semester ends.

1978

Spring Semester

January 9, Monday, 8:00 A.M. Instruction begins.
January 10 and 11, Tuesday and Wednesday. Registration during free periods.

March 17, Friday, 6:30 P.M. Spring recess begins.
April 3, Monday, 8:00 A.M. Spring recess ends.
April 14, Friday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in December 1978.

April 29, Friday, 6:30 P.M. Instruction ends.
April 29, Saturday, 8:00 A.M. Reading period begins.
May 2, Tuesday, 6:30 P.M. Reading period ends.

May 3, Wednesday, 8:00 A.M. Final examinations begin.
May 12, Friday, 6:30 P.M. Final examinations end. Semester ends.

May 17, Wednesday, Noon. Deadline for grades for candidates for the Juris Doctor degree.

May 21, Sunday. 104th Annual Commencement.

UNIVERSITY CALENDAR FOR 1978-1979

1978

Fall Semester

August 28, Monday, 8:00 A.M. Instruction begins.
August 29 and 30, Tuesday and Wednesday. Registration during free periods.

October 14, Saturday. Homecoming Day.
October 16, Monday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in May or August, 1979.

November 24, Friday, 6:30 P.M. Thanksgiving recess begins.
December 4, Monday, 8:00 A.M. Thanksgiving recess ends.

December 8, Friday, 6:30 P.M. Instruction ends.
December 9, Saturday, 8:00 A.M. Reading period begins.
December 12, Tuesday, 6:30 P.M. Reading period ends.
December 13, Wednesday, 8:00 A.M. Final examinations begin.
December 18, Wednesday, 8:00 A.M. Final examinations end. Semester ends.

1979
Spring Semester

January 8, Monday, 8:00 A.M. Instruction begins.
January 9 and 10, Tuesday and Wednesday. Registration during free periods.
March 9, Friday, 6:30 P.M. Spring recess begins.
March 26, Monday, 8:00 A.M. Spring recess ends.
April 13, Friday. Good Friday. No classes.
April 16, Monday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in December 1979.
April 27, Friday, 6:30 P.M. Instruction ends.
April 28, Saturday, 8:00 A.M. Reading period begins.
May 1, Tuesday, 6:30 P.M. Reading period ends.
May 2, Wednesday, 8:00 A.M. Final examinations begin.
May 11, Friday, 6:30 P.M. Final examinations end. Semester ends.
May 16, Wednesday, Noon. Deadline for grades for candidates for the Juris Doctor degree.
May 20, Sunday. 105th Annual Commencement.

STAFF: Professor Ehren (Dean); Professors Barteit, Gronley1, Hiller, Meyer, Stevenson, and Wills; Associate Professors Berner1, Bodensteiner1, Brockington (Assistant Dean), and Sill; Assistant Professors Dawson, Levinson2, and Martz; Visiting Associate Professor Nelson; Visiting Assistant Professors Hennig and Potter; Associate Professor Hess, Law Librarian

GENERAL INFORMATION. The School was founded in 1879 as the Northern Indiana Law School. In 1905 it became a part of Valparaiso College, now Valparaiso University. The School moved into quarters in DeMotte Hall in 1926 and into Wesemann Hall in September 1963. It was approved by the American Bar Association in 1929, and since that time it has met continuously the requirements established by that Association's Council on Legal Education and Admission to the Bar. In 1930 it was admitted to membership in the Association of American Law Schools. The degree of Juris Doctor is conferred by the Association of American Law Schools, and is granted by the School upon the recommendation of the Board of Regents of the University of the State of New York. Valparaiso University, of which the University is a comprehensive one, including, as it does, the late Mr. Adolph H. Wesemann

1 Leave of Absence, Spring Semester 1977-1978.
2 Study Leave, Academic Year 1977-1978.

and his wife Janette, of LaGrange, Illinois, in whose honor the building is named. The library wing was enlarged in 1970 and this addition was named after benefactors Clara and Spencer Werner. This building is evidence of the University Administration to develop and maintain as part of its educational complex a quality school for the training in law of those who desire it.

Students in the School find it to their advantage that it is located in a county seat which has three trial courts in session throughout most of the year. In addition, there are numerous trial courts in adjacent Lake County, a heavily industrialized area. The Federal District Court holds its sessions in nearby Hammond, and a United States Court of Appeals sits throughout the year in Chicago, about fifty miles away.

The law library, which contains approximately 95,000 volumes and government documents, meets the requirements of all accrediting associations. It contains the official reports of the United States and the official reports (of appellate courts) of all states up to the establishment of the National Reporter System, which now provides complete coverage of all federal and state appellate court reports. The library contains all sets of general annotated decisions, English appellate cases to date, as well as English digests and statutes, Canadian reports and Canadian Abridgment, the Federal Code Annotated, the United States Code Annotated, and earlier compilations of federal statutes, the United States Statutes at Large, the current statutes of all of the states and the District of Columbia, the American Digest System, state and special digests, a complete set of Shepard's Citators, 625 legal periodicals, most in complete bound sets, the standard law encyclopedias, and a collection of state trials, legal histories, and treatises on law, jurisprudence, and related subjects.

OBJECTIVES. The term "law" is a comprehensive one, including, as it does, three relatively distinct elements: the great body of judicial decisions from England and the United States, more commonly called Anglo-American Common Law; constitutions and statutory enactments of national and state legislatures; and various decisions and rulings by individuals and boards in the executive branches of national and state governments. It is no longer sufficient for a lawyer to be grounded merely in the Common Law; he must have a thorough working knowledge and understanding of all three elements of the law. The study of law is a rewarding one, and its rewards are not necessarily limited to a knowledge of law for its own sake, important and valuable though this may be. Historically, the School has conceived its purpose to be the preparation of lawyers for general private practice. The law is not a set of rules self-executing in nature; the services of thousands of judges, lawyers, legislators, and administrators are required to make the law a working force in the everyday world. Consequently, the major task of all American law schools has been the training of young men and women to fill these roles. The School, however, also recognizes that there is a real and growing need for law training for the persons who are to carry on the complex activities of modern governmental units or modern business enterprises. It therefore welcomes students who are preparing for public service careers or for careers in business or engineering. Finally, the School recognizes that some of its students may not be clear as to the area of their interest. It therefore offers a sound education in the general field of the law so that a student may later intelligently choose his/her particular field of interest.
The School recognizes that, if its students are to be prepared adequately to meet the needs of practice, government, or business, it must introduce them to the basic concepts of the law, teach them to think like lawyers, and train them in the skills needed in the profession of law.

**ORGANIZATION.** The School is distinguished by three characteristics: It is Christian, it is national, and it is small.

**Christian.** The School, as an integral part of the University, shares to the fullest the cultural life of the campus. Like other students in the University, law students are encouraged to participate in many and varied religious activities of the University. In addition, a constant effort is made by the School to make Christianity relevant to the study and practice of the law. To focus this effort, the School requires each student to take the course in Christian jurisprudence, which explores both past and present legal philosophy, as well as the nexus between Christianity and the law.

**National.** The School is a national school in that it does not confine its interest to the laws of any one state. It clearly recognizes that the concept of justice belongs to all courts and all states and all people. It also recognizes, however, that the law of various states may differ because of economic or geographic considerations; it, therefore, encourages its students to keep abreast of local developments in the law by providing easy access to statutes, court reports, and treatises which articulate these differences.

**Small.** Despite its unprecedented growth during the past few years, the School of Law is still relatively small. Recognizing the advantages that a small law school affords, the faculty is determined to limit enrollment and to maintain a very favorable faculty-student ratio. Even with the increased enrollment, most second-year and third-year classes are small, making maximum participation by each student possible. Easy access to faculty members for personal consultation and advice is a Valparaiso tradition.

A thorough grounding in substantive law is the basis of the curriculum. The student must, however, also be thoroughly familiar with the framework in which the substantive law has been developed and is used in the work of the courts; for that reason, adjectival courses are integrated with substantive courses. The School recognizes as a further objective the teaching of the basic skills which are the tools of every good practicing lawyer and which must be understood even by students not planning to enter private practice. Training in these skills is therefore considered an integral part of the curriculum, both as course-study and as required extracurricular activity.

First-year students are required to take the following block schedule:

**FIRST YEAR.**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>119. Torts I</td>
<td>2</td>
</tr>
<tr>
<td>121. Criminal Law I</td>
<td>2</td>
</tr>
<tr>
<td>123. Contracts I</td>
<td>3</td>
</tr>
<tr>
<td>125. Property I</td>
<td>3</td>
</tr>
<tr>
<td>129. Procedure I</td>
<td>3</td>
</tr>
<tr>
<td>135. Legal Problems I</td>
<td>2</td>
</tr>
<tr>
<td><strong>15</strong></td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>120. Torts II</td>
<td>3</td>
</tr>
<tr>
<td>122. Criminal Law II</td>
<td>2</td>
</tr>
<tr>
<td>124. Contracts II</td>
<td>2</td>
</tr>
<tr>
<td>126. Property II</td>
<td>3</td>
</tr>
<tr>
<td>130. Procedure II</td>
<td>3</td>
</tr>
<tr>
<td>136. Legal Problems II</td>
<td>2</td>
</tr>
<tr>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**SECOND AND THIRD YEARS.** Courses beyond the first year are elective with the exception of Evidence, Jurisprudence, Legal Profession, Constitutional Law, and a seminar. In addition, the student is required to elect one from a group of three courses which the faculty has designated as perspective: Legal History, Legal Process, and Comparative Law. Consult the course descriptions for the sequence in which the requirements must be satisfied. With permission of the Dean and the instructor involved, a student may engage in an independent research project during the third year in lieu of the seminar requirement. A substantial paper reflecting the results of the research will be required. Students should consult the description of courses (pages 234 to 237) to determine which courses are "strongly recommended," or "prerequisite" to other courses. As a guide to course selection, courses numbered in the 200's were formerly considered third-year courses.

**LAW REVIEW.** The Valparaiso University Law Review is published three times each year by the students of the School. The Review affords superior students the opportunity to develop analytical, research, and writing skills and, thus, is an invaluable adjunct to legal education. The Review contains articles and book reviews by distinguished law teachers and practicing lawyers, and notes by members of the editorial staff. It is edited in its entirety by the student Board of Editors. It is considered an honor to be appointed to the Review staff.

**LEGAL AID.** The recognized obligation of the bench and the bar is to provide equal justice under law to all persons in our society, rich and poor. The law school, training the judges and lawyers of the future, is the logical starting point in meeting that obligation. The courses offered enable students to gain insight into the particular legal problems of the poor and to serve justice and the community.

The second-year classroom course in Introduction to Clinic presents students with a theoretical framework of the law pertinent to poor people. Students also engage in field work, observing judicial and administrative proceedings, and assisting lawyers and third-year students in the preparation of cases. In addition, the course is designed to develop basic skills in interviewing, pre-trial procedures, and preparation and use of memoranda and trial briefs. This course is prerequisite to the third-year courses in the Clinical Program.

The third-year course, Clinical Program in Legal Problems of the Poor, allows students to gain practical work experience while dealing with actual legal problems of indigents and agencies working with the poor. Participating students represent clients in criminal, civil, and administrative proceedings. Indiana Supreme Court Rules allow these students to represent their clients in court under the supervision of a licensed attorney.

**LECTURE PROGRAM.** The School recognizes that the practicing lawyer and persons working in areas related to law have something of very real significance to say to the student of law, but that it is difficult for them to say this within the confines of academic classes which may conflict with busy schedules. The School and the Student Bar Association, therefore, bring prominent persons from various fields to the campus for special lectures on subjects of interest and importance to law students.
ORGANIZATIONS.

Alumni. The Alumni Association of the School was organized in its present form in 1938 and has devoted itself since to the task of supporting the School. In 1963, the Association established the Student Assistance Trust, a fund from which needy law students may borrow to help finance their education. The Association, which holds annual meetings, maintains a close relationship with the administration of the School at all times. The School draws many of its lecturers from the Association.

Fraternities. Two intercollegiate law fraternities have chapters on the campus: Phi Alpha Delta and Delta Theta Phi.

Student Government. The Student Bar Association of the School is one of the oldest organizations for student self-government among the law schools of the Middle West. It is affiliated with the Law Student Division of the American Bar Association. Each year the Student Bar Association sponsors the annual observance of Law Day and makes all arrangements for the Day's activities. In addition, the Association sponsors numerous speakers and provides social recreation for its members. All students are members of the Association and have an opportunity to participate in the activities and share the responsibilities of the organization.

Law Wives. The wives of law students may participate in the activities of Amicai Curiae, an official adjunct of the Student Bar Association. The purpose of the organization is to promote a better understanding of the legal profession, to cooperate with the Student Bar Association and the School and to establish a continuing liaison with the faculty members and their wives as well as with law wives' groups in law schools throughout the country.

ENDOWED CHAIR. Mr. Edward A. Seegers of River Forest, Illinois, has endowed a faculty chair in honor of his father and mother, Louis and Anna Seegers.

LAW DAY. In the spring of each year the School celebrates Law Day, U.S.A. The day's activities include arguments of a moot appellate case, a banquet, and a talk by a distinguished member of the bench or bar.

NATIONAL MOOT COURT COMPETITION. The School participates each year in the Competition sponsored annually among accredited law schools by The Young Lawyers Committee of the Bar Association of the City of New York. The names of the members of the team chosen to represent the school each year are engraved on an appropriate plaque displayed in the Law Library.

THE CHARLES L. VAUGHAN MEMORIAL AWARD. Mr. Charles R. Vaughan, an alumnus of the School, established this award in memory of his father who was a prominent trial attorney. The award is presented annually to the student whose performance in Trial Advocacy merits special recognition.

THE JOHN E. CHRISTEN MEMORIAL AWARD. Mr. and Mrs. F. E. Christen established this award in memory of their son, John E., who was graduated from the School in 1965 and who had been elected President of the Law Alumni Association in the month preceding his untimely death in November 1969. The award is made annually to a third-year law student whose law school performance has manifested substantial improvement and whose financial need makes him/her a worthy candidate for financial assistance.

A number of other awards are available in the School for outstanding scholarship and achievement. Among those being currently offered are the following: The Student Bar Association Award; the Nathan Burkan Memorial Prize; the Lawyers Cooperative Publishing Company and Bancroft-Whitney Company award; the West Publishing Company award; the Prentice-Hall Taxation Award; the U. S. Law Week Award; the Lutheran Laymen's League Award. Awards are also presented to the top oral advocates in the moot court competition by the West Publishing Company and the Bobbs-Merrill Company.

FINANCIAL AID. A limited number of grants are available each year. They are awarded principally on the basis of demonstrable financial need. Applicants for grants should apply on a form provided by the University's Office of Financial Aid. Applicants for grants are considered after certificates of admission to the School have been issued.

National Defense loans may be applied for through the central Financial Aid Office of the University. The University Financial Aid Office also assists in applying for federally insured loans.

PLACEMENT. The School actively assists graduating seniors seeking positions in the profession.

The School subscribes to the policy of the Association of American Law Schools which requires its members to deny use of their placement facilities to prospective employers who discriminate on the grounds of race, color, religion, sex, or national origin.

PRE-LEGAL EDUCATION. No particular course of study is prescribed for students planning to enter schools of law. The attention of the pre-law student is, however, called to the recommendation of the Committee on Pre-Legal Education of the Association of American Law Schools that pre-law education should be concerned with the development in pre-law students of basic skills and insights involving education for:

A. Comprehension and expression in words;
B. Critical understanding of the human institutions and values with which the law deals; and
C. Creative power in thinking.

The law schools seek in their entering students ability to understand, ability to think for themselves, and ability to express their thoughts clearly and forcefully.

ADMISSION.

Time of Entrance. No person will be admitted to the School as a first-year student at a time other than at the beginning of a fall semester. Persons who desire to be admitted with advanced standing must comply with existing regulations.

*Application for Admission. Applications to the School may be obtained by writing to the Dean, School of Law, Valparaiso University, Valparaiso, Indiana. Applications will be accepted starting October 1.

*Application Fee, see page 29 of this Bulletin.
Applications for admission to the School will be considered only from those persons who have been graduated with a bachelor’s or higher degree from Valparaiso University or another college or university accredited by one of the regional associations of colleges.

Applications for admission to the School is accomplished by filing the application with the School and by registering with the Law School Data Assembly Service (LSDAS) of the Educational Testing Service, Princeton, N. J. The LSDAS registration involves supplying LSDAS with a transcript from each college and university attended. Except in unusual cases, transcripts should not be supplied until they include a record of three full academic years. If the application is approved, the applicant must supply a final transcript certifying the receipt of a bachelor’s degree directly to the School. The LSDAS registration must also be supported by a report of the applicant’s score on the Law School Admission Test administered by the Educational Testing Service at various testing centers throughout the country in October, December, February, April, and July. It is administered on the campus of Valparaiso University in October and February. Application forms for taking the test are supplied with the LSDAS registration materials or may be obtained from either the School or the Educational Testing Service. The applicant should indicate on the test application form and on the LSDAS registration form that the score is to be reported to the Valparaiso University School of Law.

The deadline for submission of application materials is March 15. This deadline will be considered met if all materials have been received by the Law School Data Assembly Service and an application for admission received by the School on that date. Applicants should note that the April and July administrations of the LSAT are too late to be considered.

Deposit Requirement. The School requires a tuition deposit of $50.00. Applicants admitted must remit this deposit within 15 days of the date of the certificate of admission or by April 1, whichever is later.

This deposit is not refundable except for extraordinary reasons such as illness or military service, but will be credited to the applicant’s tuition fee when he/she registers.

Failure to remit the deposit within the time specified will result in cancellation of the certificate of admission.

Transfer Students. A student transferring to Valparaiso from another law school may receive credit ordinarily not exceeding one year, provided: (1) that the law school from which he/she is transferring is a member of the Association of American Law Schools; (2) that the student transferring meets the scholastic average required for graduation by that law school and all other conditions and requirements for continued attendance at that school; (3) that his/her scholastic standing meets the requirements of Valparaiso University for advanced standing; (4) that the work which he/she has completed is similar in character to that which is given at Valparaiso University; and (5) that he/she has met the entrance requirements of the School for beginning law students. The right is reserved to withhold such credit, wholly or in part. Credit which has been granted provisionally may be withdrawn because of unsatisfactory work at this University. No advanced standing is given for courses completed with a grade of D.

Students who enter with advanced standing because of credits transferred from another school must earn a numerical average of at least 70 in all law work undertaken at Valparaiso University in order to be eligible for a degree. In the computation of a student’s standing grades of 55 earned at Valparaiso University are included.

All candidates for admission to the School, whether as first-year students or as candidates for advanced standing, must, in addition, meet any and all requirements imposed by the American Bar Association and the Association of American Law Schools for admission to an approved school of law. All transfer students must take the Law School Admission Test if they have not already done so. Applicants who have previously taken the test should request that their scores be sent to the Dean, School of Law, Valparaiso University.

Special Students. In extraordinary cases, applicants who do not hold a bachelor’s degree, may be admitted as special students provided: (A) they are at least 23 years of age and (B) there is evidence that their experience and training have equipped them to engage successfully in the study of law despite the lack of required college credit.

REGISTRATION. All students are expected to register on the official registration days of each semester as listed in the School Calendar.

*Responsibility Assumed by Registration. By registering, the student subscribes to the terms and conditions, financial and otherwise, which have been set forth in these announcements. One of these is that every first-time, full-time, registered student and every student who has not been registered during the previous sixteen month period must submit to the University Medical Center a report of his/her medical history, physical examination, and required immunization.

Change of Program. During the first seven days of classes of the semester, changes of enrollment may be made with the written approval of the Dean. There is no adjustment in the tuition and general fees after the first seven days of classes of a semester.

Students who wish to drop courses after the first seven days of classes of the semester will be permitted, upon the approval of the Dean and of the instructors concerned to withdraw from the course with a grade of W up to and including the end of the ninth week of a semester.

Students who wish to drop courses after the first seven days of classes of the semester should read the regulation regarding a grade of W. Application for changes in enrollment must be made by the student on proper forms and filed at the Office of the Registrar.

Admission to Courses as an Auditor. A classified student may register in a course as an auditor only with the permission of the Dean and the instructor concerned. An auditor may not be admitted to the final examination and is never granted credit for the course audited. No additional fee is charged when the student pays full tuition.

Withdrawal from the University. A student who wishes to withdraw from the University for the remainder of a semester should apply to the Vice-President
for Student Affairs for a permit to withdraw. Upon return of the permit properly signed to the Office of the Registrar, the Registrar will authorize the return of such fees as are refundable.

The term "honorable dismissal" refers to conduct and character only, not to class standing and grades. It will not be granted unless the student's conduct and character are such as would entitle him/her to continue in the University.

A student who withdraws from the University without authorization is not entitled to refunds of any kind and the instructor of each subject in which the student is enrolled is required to report a final grade of 55 to the Registrar.

COURSE LOAD. For first-year students, it is the block schedule. Second- and third-year students must carry a minimum of 14 credit hours in each semester and may not register for more than 16 credit hours in each semester.

EXAMINATIONS. The regular written examinations of the University are held at the close of each semester.

The semester examinations are conducted according to a published schedule.

NUMERICAL MARKING SYSTEM. Results of work will be recorded in the Registrar's Office as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>How to meet course objectives</th>
<th>Hours counted towards graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>84 and above</td>
<td>Excellent</td>
<td>Meets course objectives</td>
<td>Count towards graduation</td>
</tr>
<tr>
<td>77-83</td>
<td>Good</td>
<td>Meets course objectives</td>
<td>Count towards graduation</td>
</tr>
<tr>
<td>70-76</td>
<td>Satisfactory</td>
<td>Meets course objectives</td>
<td>Count towards graduation</td>
</tr>
<tr>
<td>56-69</td>
<td>Poor; indicates a deficiency but gives hour credit for graduation</td>
<td>Does not meet course objectives</td>
<td>Does not count towards graduation</td>
</tr>
<tr>
<td>55</td>
<td>Failure</td>
<td>Does not meet course objectives</td>
<td>Does not count towards graduation</td>
</tr>
</tbody>
</table>

I. Incomplete. The grade I (Incomplete) may, at the discretion of the instructor, be given to a student whose completed work in a course indicates the probability of his/her passing the course but who has failed to complete a segment of the assigned work of the course because of circumstances beyond his/her control. An I (Incomplete) received in one semester or summer session must be removed by the beginning of the official examination period of the next succeeding semester or it will automatically become a grade of 55. The student's deadline for submitting the outstanding work to the instructor shall be one full week prior to that date.

W. An authorized withdrawal. (See Change of Program.) This mark carries no credit.

Any student withdrawing from a subject without first securing the official permission of the Dean will receive a grade of 55 in that subject for the semester.

Only in exceptional cases, such as prolonged or serious illness, will the appropriate committee permit a student to withdraw from a course without a grade of 55 after the end of the ninth week of the semester.

S. Satisfactory; meets course objectives. Hours with grade of S count toward graduation but are not counted in computing the student's standing. All regular work of the course is required of students electing the S/U registration. It is assumed that this work should be of 70, or better, quality to warrant the grade of S.

U. Unsatisfactory; does not meet course objectives. Hours with grade of U do not count toward graduation and are not counted in computing the student's standing.

Grades of S and U are used in courses which are so designated in the course descriptions contained in the University Bulletin. (See page 59 for further use.) They may be used in other courses only in exceptional cases when approved by the dean of the respective college and the Vice-President for Academic Affairs.

Definition of the Standing of a Student. A student's standing is determined by his/her average numerical grade. (Computed by multiplying the numerical grade in each subject by the credit value of that subject, and dividing the total by the total number of credits attempted.)

HONORS IN SCHOLARSHIP. A student who achieves a standing of an average numerical grade of 86 in any semester (except the last semester prior to graduation) will be awarded honors, provided that he/she has received no grades of I or U at the official end of the semester concerned, and that he/she was registered for at least 12 hours of work for the semester.

Graduating honors for third-year students are announced at Commencement and are based on the work of the last two semesters.

CLASSIFICATION. A student in the School shall have completed 30 hours to be classified as a second-year student, and 60 hours to be classified as a third-year student.

Unclassified Students. These are students who meet the requirements for admission as regularly classified students working toward a degree, but who, for valid reasons, are temporarily departing from degree requirements or from specified curricula. Credits received while a student is unclassified may be subject to revision should the student in the future become a candidate for a degree. This status is not available to students dismissed from the University for academic or other reasons.

APPROVAL OF SCHEDULES. All students must have their programs of study approved by the Dean of the School at the beginning of each semester.

ACADEMIC DEFICIENCY. A student in the School will be denied permission to continue if his/her cumulative numerical average is less than 70 at the end of the fourth semester or any semester thereafter.

For less than four semesters, the standards for retention are governed by faculty rules, copies of which are available in the Office of the Dean and are distributed at the beginning of each academic year.

Any student whose numerical average falls below 70 is academically deficient and considered to be on scholastic probation.
GRADUATION.

Degree. The University offers a three-year (six-semester) curriculum leading to the degree of Juris Doctor (J.D.). The degree is conferred upon recommendation of the Faculty of the School of Law. All work toward a degree must be completed to the satisfaction of the Faculty. In all cases, the student is responsible for meeting the requirements for graduation.

A student who returns to the School after an absence of three or more years may no longer be a candidate for a degree on the basis of the catalog under which he/she first entered the University, but must fulfill for graduation all the requirements and provisions of the catalog of the year in which he/she re-enters the University.

Course, Credit, and Numerical Grade Requirements. A candidate for graduation must have undertaken a total of 90 credit hours with numerical grades of 56 or better in a minimum of 85 credit hours. The student must also have received passing grades in the courses required for graduation. In addition he/she must have a numerical average of at least 70 in all law work undertaken at Valparaiso University. In the computation of this standing, grades of 55 to 59, inclusive, earned at Valparaiso University are included.

Residence Requirements. To be eligible for graduation from the School, a student must have been enrolled as a full-time student in an accredited law school for six semesters. In addition, the student must complete all required courses and the last 30 hours in residence at Valparaiso University. (Transfer students are exempted from the residence requirement in respect to required courses to the extent they have successfully completed such courses before matriculating.)

Application For Degree. A student who wishes to receive his/her degree at the end of a Fall Semester must make formal application for the degree on a form provided for this purpose by the Registrar's Office not later than the preceding April 15th. A student who wishes to receive his/her degree at the end of a Spring Semester or a Summer Session, must make formal application for the degree on a form provided for this purpose by the Registrar's Office not later than the preceding October 15th.

If, for any reason, a student does not meet the requirements for graduation after filing his/her application, the student must file a new formal application (no charge) by the beginning of the session in which the student now expects to receive the degree.

Presence at Commencement. A candidate for graduation at the end of the spring term must be present at commencement in order to receive his/her degree. Degrees are not conferred in absentia, except on special permission from the President.

A student who completes his/her work toward a degree at the end of a Fall Semester or of a Summer Session may be granted the degree at that time.

JURIS DOCTOR DEGREE WITH DISTINCTION. A student who has been in attendance at Valparaiso University at least three years and who has maintained a numerical average of 84 in the work at this institution will be graduated "With Distinction." A student who has been in attendance for only two years must maintain a numerical average of 86 to be eligible for this honor.

A student who has been in attendance at least three years and who has maintained a numerical average of 84 in the work at Valparaiso University will be graduated "With Distinction." A student who has been in attendance for only two years must maintain a numerical average of 86 to be eligible for this honor.

REGISTRATION WITH BAR AUTHORITIES. The rules of many states require the filing of certain forms with state officials before the study of law is begun. Any student desirous of pursuing a career in law should obtain instructions from the proper authorities in the state in which he/she intends to practice. This is usually the board of bar examiners or the clerk of the highest court. Failure to comply with such a rule may delay admission to the bar for a substantial period. The law library has on file a compendium of the regulations on bar admissions for all states.

REQUIREMENTS WITH REGARD TO STUDENTS WHO WORK. The study of law is an exacting one and demands a very considerable portion of the students' time. The School therefore requires each student to register with the Dean the number of hours per week that he/she works.

Professional Credit.*

REQUIRED COURSES FOR FIRST-YEAR STUDENTS.


120. Torts II, Sem. 2. Cr. 3. A continuation of Law 119.

121. Criminal Law I, Sem. 1. Cr. 2. General considerations; solicitation and attempt; assault, battery, and mayhem; false imprisonment; homicide; rape; larceny; embezzlement and false pretenses; receiving stolen property; burglary; arson; alienation of persons.


123. Contracts I, Sem. 1. Cr. 3. The general scope and purpose of the legal protection accorded contracts; mutual consent and consideration; the rights of third parties; assignment; the effect of changed circumstances; conditions; specific performance; the Statute of Frauds. Economic and psychological aspects of the subject are considered along with the legal history, comparative law and modern statutory developments. Primary emphasis is placed on the contract in litigation, but problems of negotiation, draftmanship, and legal planning are considered throughout.


125. Property I, Sem. 1. Cr. 3. Real property; easements and profits, licenses, water; adverse possession and prescription; conveyancing, execution of deeds, subject-matter; estates created; creation of easements by implication, covenants for title, estoppel by deed, priorities.


129. Procedure I, Sem. 1. Cr. 3. Jurisdiction; venue; immunity; variance; theory of pleading; nature and scope of equity; amendments; alternative pleading.

130. Procedure II, Sem. 2. Cr. 3. Allocation of burden; detail required in pleading; discovery; pre-trial conference; adjudication without trial; joinder and splitting; partial judgments.

135. Legal Problems I, Sem. 1. Cr. 2. A problem course designed to develop the basic legal skills required in the preparation of memoranda and other legal documents which necessitate the search for and synthesis of legal and nonlegal materials.


*See page 72 for the number of credits that may be applied toward a degree offered by the College of Arts and Sciences.
SECOND- AND THIRD-YEAR COURSES.


165. Business Associations. Sem. 1. Cr. 4. The principal forms of all the various business associations are analyzed and studied.

166. Evidence. Sem. 1. Cr. 4. Rules for exclusion of evidence; functions of court and jury; burden of proof; circumstantial evidence; hearsay; examination of witnesses, with demonstrations thereof. Prerequisite to Trial Advocacy and Clinical Program. (A required course.)


169. Trusts and Estates I. Sem. 1. Cr. 3. A study of the essential tools of lifetime and testamentary planning of estates: (1) intestate succession; (2) wills and testaments; (3) uses and trusts, express, resulting, and constructive; (4) future interests in real property; (5) perpetuities and restraints on alienation; (6) powers of appointment; and (7) gifts, charitable and cause mortis. Prerequisite to Trusts and Estates II.

170. Trusts and Estates II. Sem. 2. Cr. 3. A continuation of Law 169.

171. Constitutional Law I. Sem. 1. Cr. 3. Relations between the federal government and the states; scope of legislative, judicial, and executive powers; interstate commerce; money; federal taxation; territories and dependencies; constitutional limitations in favor of life, liberty, and property; due process of law and equal protection of the laws; powers of states. (A required course.)

172. Constitutional Law II. Sem. 2. Cr. 3. A continuation of Law 171. (A required course.)

173. Legal Process. Sem. 2. Cr. 2. A problem course study designed to heighten student awareness and understanding of the main institutions and processes (courts, legislatures, executive, administrative, private law making) of the American legal system in the perspective of their everyday working interrelationships.


176. Comparative Law. Sem. 2. Cr. 2. An examination of various theories of law relative to its nature, source, growth, and function. Relation of law to other disciplines. A critical examination of philosophies of law in the light of the teachings of Christianity. (A required course.)

202. The Legal Profession. Sem. 2. Cr. 2. The study of the individual canons of professional ethics adopted by the American Bar Association and other materials on the lawyer's professional responsibility. (A required course.) S/U grade.

231. Municipal Corporations. Cr. 3. Incorporation and incidents of existence; types of organizations; legislative control; corporate agencies, expressed and implied powers; revenue and indebtedness; acquisition and control of property; liability in contract and tort; remedies; home rule. S/U grade.

235. Federal Practice. Cr. 3. A study of the federal courts with respect to the part played by them in achieving a workable federalism. Special attention will be given to the original and appellate jurisdiction of the federal district courts, the relationship of the federal courts to state courts, and the permissible and desirable range of federal judicial power. (Strongly recommended as a second-year course for those students intending to register for the Clinical Program courses in the third year.)
240. Insurance. Sem. 2. Cr. 3. A study of insurable interest, concealment, representation, warranty, causes of invalidity, increase of hazard, the peril insured against, the amount of recovery, subrogation, conditions applicable after loss, waiver and estoppel, assignment of policies, and rights of beneficiaries.

254. Business Planning. Sem. 1. Cr. 3. The object of the course is to teach a basic understanding of corporate taxation in a context of problems likely to be encountered by a lawyer. Related law and principles of corporations, accounting, and securities regulation will be covered to the extent they relate to the problems. Prerequisite: Law 167.


258. Estate Planning. Sem. 2. Cr. 2. The principles of lifetime and testamentary planning of estates. Integrates the principles of the law of property, wills, and trusts; considers the favorable and unfavorable aspects, on such planning, of state and federal taxes. Prerequisite: Law 256.

260. Current Litigation I. Cr. 2. A clinical course in which students will be assigned various tasks to assist practicing attorneys in current litigation problems. Students will work under the supervision of a member of the faculty and the practicing attorney. Enrollment is by invitation only, and preference will be given the students not enrolled in the Clinical Program courses. Students registered for the Clinical Program courses may not also take the Current Litigation course and count the 2 credit hours toward the 90 hour graduation requirement.


262. Law and Environmental Controls. Cr. 3. An interdisciplinary study of the legal problems involved in air, water, and noise pollution.

271-272. Law Review. Sem. 1. Cr. 1., Sem. 2. Cr. 1. Participation in Law Review activities, including the writing, editing, and publication of legal notes and articles. Admission by invitation only. (Note: This course may be offered in satisfaction of seminar requirement.) S/U grade.

273. Labor Law I. Cr. 3. Organization, including the right to organize; protection against interference; discrimination and employer domination; selection of representatives. Collective bargaining, including the requirement of bargaining; provisions and enforcement of collective agreements. Strikes, picketing, and boycotts. Intra-union and inter-union relationships.

274. Labor Law II. Sem. 2. Cr. 3. The use of arbitration as a means of self-regulation of the employment relationship; remedies available for discrimination on the basis of race, sex, and age under Title VII of the Civil Rights Act of 1964 and other state and federal laws; pay requirements and other criminal and civil sanctions relating to the employer employee, employer labor organization relationship.

278. Debtors' Protection and Creditors' Rights. Cr. 3. The legal position of the creditor, secured and unsecured, and his legal and equitable remedies. Fraudulent conveyances, general assignments, creditors' agreements, receiverships, and bankruptcy.

285. Economic Regulation. Cr. 3. A study of the statutes and legal theories involved in the preservation of competition. Monopoly; exclusive dealing; resale price maintenance; mergers; stock acquisitions.

286. Land Acquisition and Use. Cr. 3. A study of the legal concepts and institutions relating to the marketing of land. The principal emphasis will be upon control of land use and development through legislation and private agreement; the marketing and financing of real estate; risks of title defects and methods of title assurance.

287. Criminal Procedure. Cr. 3. Covers an in-depth study of the nature of due process, and within this area takes into consideration arrest, searches and seizures; electronic eavesdropping; the right to counsel; confessions; entrapment; news media; disclosure and multiple punishment. Rights of juveniles and post-conviction proceedings are also considered. (Strongly recommended as a second-year course for those students intending to register for the Clinical Program courses in the third year.)

288-289. Seminar. Sem. 1. Cr. 1., Sem. 2. Cr. 1. The seminar requirement is designed to afford third-year students an opportunity to build on the knowledge they have gained during their first two years of law study, by permitting them to make in-depth studies in specialized subjects. Since a substantial investigation paper is required in all seminars, students also gain experience in advanced research and writing. The seminar runs throughout the year, thus permitting adequate time for critiques and redrafts of the papers. In past years seminars have been offered in Securities Regulation, Church and State, Civil and Political Rights, Social Legislation, Commercial Arbitration, Commercial Law, Business Problems, Federal Antitrust Laws, and Natural Resources. These seminars will be supplemented from time to time as student interest demands. With permission of the dean and the instructor involved, a student may engage in an independent research project during the third year in lieu of the seminar requirement. The supervising instructor will prescribe the student's responsibilities in the project in addition to the substantial research paper which is required.

290-291. Clinical Program in Legal Problems of the Poor I and II. Sem. 1. Cr. 3-6; Sem. 2. Cr. 3-6. A student must enroll for at least three hours in each semester. A grade of 1 (Incomplete) is assigned at the end of the first semester and is removed upon the satisfactory completion of both seminars. Authorization to enroll for more than three hours in a given semester must be obtained in advance from the Faculty Clinic Committee. A student may not take more than a total of 12 hours of clinical work.

292. Clinical Program in Legal Problems of the Poor III. Cr. 3. A continuation of Law 290 and 291.

294. Remedies. Cr. 3. Forms of judicial and equitable relief which courts can grant by way of redress to those who have been or may be injured including legal doctrines to prevent unjust enrichment; alternate choices and tactical advantages of each.

In certain courses a small charge will be made for relevant mimeographed materials distributed to the class.
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Director of Law Library .............................. Elmer H. Hess, M.S.L.

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Associate University Physician ............... Ronald A. Schroeder, M.Ed.
Frederick H. Rachlin, M.A., Director of Admissions Emeritus with rank of Assistant Professor

Edgar Carl Reinke, Ph.D., Professor Emeritus of Foreign Languages

The University of Chicago

Frederick H. Rachlin, M.A., Director of Admissions Emeritus with rank of Assistant Professor

Edward Carl Reinke, Ph.D., Professor Emeritus of Foreign Languages

The University of Chicago

Lois Juliette Thoma, Ph.D., Professor Emerita of Home Economics

Wittenberg College (A.B., 1928); University of California, Berkeley; Cornell University; Syracuse University

John Robert Stager, M.A., Assistant Librarian Emeritus with rank of Assistant Professor Emeritus

The University of Chicago

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Northwestern University

Margaretta Sackville Tangerman, M.A.S.W., Professor Emerita of Social Work

Northwestern University

The Merrill Palmer Institute; University of Michigan; Valparaiso School of Social Service Administration (M.A.S.W., 1947). A.C.S.W.

Adolph Wismar, Ph.D., Professor Emeritus of Religion

Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1903); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1906); Columbia University (Ph.D., 1927)

The University Faculties*

1Indicates member of the University Senate—1975-1976.
2Indicates member of the University Senate—1976-1977.
3For Summer Sessions 1975-1976, inclusive.
5For Summer Session 1975 to Spring 1976, inclusive.
7For the University Senate-1975-1976.
8For Summer Sessions 1975-1976, inclusive.
10For 1975-1976, rank of Instructor.
11For 1976-1977, rank of Assistant Professor.
12For 1976-1977, rank of Assistant Professor.

Richard Paul Baessler, Ph.D., Dean of Christ College; Professor of Theology

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For Fall Semester 1976-1977 only.

For Spring Semester 1975-1976 only.

For Spring Semester 1975-1976 only.

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For 1908-1909 only.
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For 1975-1976 only. For Fall Semester 1975-1976 only.

For Spring Semester 1975-1976 only.

For Spring Semester 1975-1976 only.

For Spring Semester 1975-1976 only.
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... a growing and maturing private University of academic excellence, operating within the Lutheran tradition, whose purpose is the development of an effective Christian personality that will leave its mark throughout society.