announcements for the sessions of 1971-1972
catalogue for the academic year 1970-1971
UNIVERSITY CALENDAR FOR 1971-1972

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

1971

SUMMER SESSION
(Eight Weeks)

June 14, Monday, 1:00 P.M. Registration for all students.
June 15, Tuesday, 7:30 A.M. Instruction begins.
August 5, Thursday, 7:30 A.M. Final examinations begin.
August 6, Friday. Final examinations end. Summer Session closes 5:00 P.M.

FALL SEMESTER

August 31, Tuesday, 8:00 A.M. Orientation week for freshmen begins.
September 2, Thursday, 8:00 A.M. Registration for upperclassmen.
September 3, Friday, 8:00 A.M Registration for freshmen and transfer students.
September 6, Monday, 8:00 A.M. Instruction begins.
September 6 - October 22. Dates for first half short courses.
September 10, Friday, 5:00 P.M. Deadline for adding first half short courses.
September 14, Tuesday, 5:00 P.M. Deadline for adding regular courses.
September 24, Friday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
October 9, Saturday. Homecoming Day.
October 18 - October 22. Adjustment period for adding second half short courses (and arranging course intensification).
October 25 - December 15. Dates for second half short courses.
November 1, Monday. Last day to file application of candidacy for the bachelor's degree to be conferred in May or August 1972.*
November 5, Friday, 5:00 P.M. Deadline for withdrawing from regular courses with grade of W.
November 12, Friday, 5:00 P.M. Deadline for withdrawing from second half short courses with grade of W.
November 23, Tuesday, 10:00 P.M. Thanksgiving recess begins.
November 29, Monday, 8:00 A.M. Thanksgiving recess ends.
December 15, Wednesday, 6:30 P.M. Instruction ends.
December 16. Open day.
December 17, Friday, 8:00 A.M. Final examinations begin.
December 22, Wednesday, 6:30 P.M. Final examinations end. Semester ends.
December 23, Thursday, 5:00 P.M. Deadline for all grades.

1972

SPRING SEMESTER

January 12, Wednesday. Orientation for new students.
January 13, Thursday, 8:00 A.M. Registration for upperclassmen.
January 14, Friday, 8:00 A.M. Registration for all freshmen and transfer students.
January 17, Monday, 8:00 A.M. Instruction begins.
January 21, Friday, 5:00 P.M. Deadline for adding first half short courses.
January 25, Tuesday, 5:00 P.M. Deadline for adding regular courses.
February 4, Friday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
February 28 - March 3. Adjustment period for adding second half short courses (and arranging course intensification).
March 6 - May 5. Dates for second half short courses.
March 17, Friday, 5:00 P.M. Deadline for withdrawing from regular courses with grade of W.
March 24, Friday, 5:00 P.M. Deadline for withdrawing from second half short courses with grade of W.
March 24, Friday, 6:30 P.M.  Easter recess begins.
April 10, Monday, 8:00 A.M.  Easter recess ends.
April 28, Friday, 6:30 P.M.  Spring Festival.
April 29, Saturday.  Spring Festival.
May 1, Monday.  Last day to file application for the bachelor's degree to be conferred in December, 1972.*
May 5, Friday, 6:30 P.M.  Instruction ends.
May 8-9.  Open days.
May 10, Wednesday, 8:00 A.M.  Final examinations begin.
May 16, Tuesday, 6:30 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 grades.
May 21, Sunday.  98th 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.

*Applications will not be accepted after these dates except by approval of the Educational Processes Policy Committee.
### BOARD OF DIRECTORS

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4On sabbatical leave, Fall Semester.
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8Fall Semester only.
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‡JOHN FREDRICK DETERS, Ph.D., Professor of Chemistry
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‡WILLIAM FREDERICK EIFRIG JR., D.M.A., Associate Professor of Music
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Indiana State Normal College (Diploma, 1913); Indiana University (A.B., 1916; LL.B., 1917; A.M., 1917); The University of Chicago (J.D., 1922).

Harold Griffin Standly, M.B.A., Associate Professor Emeritus of Management and Marketing
University of Kansas; Harvard University, Graduate School of Business Administration (M.B.A., 1929).

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).

CLEVELAND, FT. WAYNE, AND ST. LOUIS DIVISIONS

Gladys Beyer, B.S., Part-time Instructor in Nutrition
McPherson College; Battle Creek College (B.S., 1932); Philadelphia General Hospital (A.D.A. Certificate, 1933).

David Ernest Bodenstab, B.S., Instructor in Biology
Valparaiso University (B.S., 1970).

Lester W. Draheim, B.A., Part-time Assistant Professor of Theology
Concordia (Junior) College, St. Paul, Minnesota; Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1939; B.A., 1951); University of Kansas City.

Deceased, November 7, 1970.
DOROTHY E. ELLIOTT, B.S. in Diet., Part-time Instructor in Nutrition
Siena Heights College (B.S. in Diet., 1945); St. Louis University, Dietetics Internship.

JANE ANN FISHER, B.S., Instructor in Biology
Valparaiso University (B.S., 1970).

ROBERT ADELBERT GRUNOW, M.A., Part-time Assistant Professor of Sociology
Concordia (Junior) College; Concordia Theological Seminary, St. Louis, Missouri (B.A., 1946; B.D., 1949); University of Detroit (M.A., 1957).

STEPHEN G. MAZAK, JR., M.A., Part-time Instructor in Psychology
Concordia (Junior) College, Fort Wayne, Indiana; Concordia Theological Seminary, St. Louis, Missouri (B.A., 1952; Diploma, 1956); Marquette University; Murray State University (M.A., 1967).

HANG IK MOON, Ph.D., Part-time Assistant Professor of Sociology
Concordia Senior College (B.A., 1959); Concordia Theological Seminary, St. Louis, Missouri (B.D., 1963); Washington University (M.A., 1967); St. Louis University (Ph.D., 1970).

HOWARD EUGENE MUELLER, Part-time Assistant Professor of Theology
Concordia (Junior) College, Edmonton, Alberta, Canada (Diploma, 1936); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1940); Washburn University; University of Kansas.

SUZANNE SEARS PETRIE, B.S., Instructor in Biology
Purdue University; Ball State University (B.S., 1964); University of California, Los Angeles; San Fernando Valley State College.

DAVID THEODORE ROHDE, M.A., Part-time Assistant Professor of Psychology

ERWIN WILLIAM SCHNEDLER, M.A., Part-time Assistant Professor of Sociology
Concordia (Junior) College, Fort Wayne, Indiana (Diploma, 1936); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1940); Western Reserve University (M.A., 1950).

CAROL DIANE SMITH, B.A., Part-time Instructor in Psychology
Ohio Wesleyan University; University of Wisconsin (B.A., 1970).

MIRIAM L. SMITH, R.N., M.A., Assistant Professor of Biology and Chemistry
Trumbull Memorial School of Nursing, Warren, Ohio (Diploma, 1940); The Ohio State University (B.S. in Ed., 1943); Western Reserve University (M.A., 1964).

PATRICIA SMITH SPRENG, M.A., Part-time Instructor in English
Flora Stone Mather College, Western Reserve University (B.A., 1950); Case Western Reserve University (M.A., 1969).

JOHN MARTIN TEWS, B.D., Part-time Instructor in Theology
Concordia (Junior) College, St. Paul, Minnesota; Concordia Theological Seminary, St. Louis, Missouri (B.D., 1938); Drake University.

TED D. WESTERMANN, M.A., Part-time Instructor in Sociology
St. John’s College; Concordia Theological Seminary, St. Louis, Missouri (B.A., 1953); Emory University (M.A., 1962); University of Sydney, Sydney, Australia.

Valparaiso University appoints its Faculty without regard to race, sex, creed, color, or national origin.
ADMINISTRATIVE OFFICES

THE ADMINISTRATION
1971-1972

OFFICE OF THE PRESIDENT

PRESIDENT ...................... Albert G. Huegli, Ph.D., LL.D., D.D.
EXECUTIVE SECRETARY TO THE PRESIDENT ...................... Mabel Heimberg
CONSULTANT TO THE PRESIDENT FOR PLANNING ............. Albert F. Scribner, M.A., LL.D.
ASSISTANT TO THE PRESIDENT FOR CLERGY RELATIONS ........... Luther P. Koepke, M.A., S.T.D.
DEAN OF THE CHAPEL ....................... Norman E. Nagel, Ph.D.
EXECUTIVE DIRECTOR, UNIVERSITY GUILD ....................... Bernice Ruprecht

OFFICE OF THE CHANCELLOR

EXECUTIVE SECRETARY ................. Sophia D. Heidbrink

OFFICE OF THE VICE-PRESIDENT FOR ACADEMIC AFFAIRS

VICE-PRESIDENT ..................... Donald C. Mundinger, Ph.D.
EXECUTIVE SECRETARY .................. Dorothy R. Herscher, M.A. in L.S.
DEAN, THE COLLEGE OF ARTS AND SCIENCES .......... Louis Ashley Foster, Ph.D.
ASSOCIATE DEAN ...................... Howard N. Peters, Ph.D.
ASSISTANT DEAN ...................... Dean Kohlhoff, M.A.*
ACTING ASSISTANT DEAN ............ Theodore C. Schwan, Ph.D.
DEAN, THE COLLEGE OF BUSINESS ADMINISTRATION ............ Richard H. Laube, Ph.D.
DEAN, CHRIST COLLEGE ...................... Richard P. Baepler, Ph.D.
DEAN, THE COLLEGE OF ENGINEERING .......... Fred W. Kruger, M.S. in M.E.
DEAN, THE COLLEGE OF NURSING .......... Dorothy Paulsen Smith, R.N., Ph.D.
DEAN, THE SCHOOL OF LAW .................. Alfred W. Meyer, LL.M.*
ACTING DEAN, THE SCHOOL OF LAW .......... Louis F. Bartelt, Jr., LL.M.
ASSISTANT DEAN, THE SCHOOL OF LAW ........ Michael I. Swygert, LL.M.
DIRECTOR OF THE GRADUATE DIVISION ........ Howard N. Peters, Ph.D.
DIRECTOR OF SUMMER SESSION, EVENING DIVISION, AND INSTITUTES ............ Alfred C. Koester, M.A. in Ed.
ACTING DIRECTOR OF THE LIBRARIES .......... Daniel R. Gahl, Ph.D.
DIRECTOR OF LAW LIBRARY .......... Elmer B. Hess, M.S.
DIRECTOR, INSTRUCTIONAL MATERIALS CENTER ........ Irving S. Olsen, M.S.
REGISTRAR ........................ Paul E. Thune, B.A.

OFFICE OF THE VICE-PRESIDENT FOR ADMINISTRATION

VICE-PRESIDENT ..................... Harold A. Gram, Ph.D.
BUSINESS MANAGER .................... Robert Springsteen, A.B.
COMPTROLLER ........................ Arlene Laesch, A.B.
ADMINISTRATIVE ASSISTANT TO VICE-PRESIDENT .......... Barbara Niksch
DIRECTOR, COMPUTER LABORATORY ........ Norman L. Hughes, M.S.
Purchasing Agent ..................... Henry Sahlhoff
DIRECTOR OF PHYSICAL PLANT .......... William Domke
MANAGER, UNIVERSITY BOOK STORE .......... Lorena Zimmerman
DIRECTOR, UNIVERSITY RESTAURANTS .......... Kenneth Harmon

*Leave of absence.
Office of The Vice-President for Student Affairs

Vice-President ......................... Walter C. Rubke, Ph.D.
Medical Director and
University Physician .................. Robert Stoltz, M.D.
Dean of Men ........................... William H. Beifuss, M.S.
Dean of Women ......................... Dolores Ruosch, M.A.
Dean of Student Services and
Director of Placement ............... Alfred R. Looman, A.B.
Director of Admissions ............... Frederick H. Rechlin, M.A.
Associate Director of Admissions ... James Siebert, B.A.
Assistant Director of Admissions ... Karter R. Blaney, B.S.
Assistant Director of Admissions ... Warren Muller, B.A.
Admissions Counselor ................. Douglas B. Watkins
Admissions Counselor ................. C. Neil Farnsworth, B.S. in B.A.
Director of Financial Aid ............ Harvey P. Grotrian, M.A.
Director of Housing ................... Deloris Dobrolecki
Director of Counseling Services .... John Harris, Ph.D.
Director of Athletics ................ Emory G. Bauer, M.A.
Assistant Director of Athletics,
Ticket Manager, Sports
Information Director .................. John Krause, M.S.
Director of Valparaiso Union ........ Helen Mae Olson, M.A.

Office of The Vice-President for Public and Alumni Affairs

Vice-President ........................ Richard P. Koenig, M.S.
Director of Special Gifts ............. Karl H. Henrichs, M.A.
Director of the Foundation .......... Max G. Nagel, B.A.
Director of Church Relations ....... Luther P. Koepke, M.A., S.T.D.
Director of Public Relations 
and Annual Giving .................... Roger K. Thalacker, B.A.
Director of Publications and News ... Melvin H. Doering, B.A.
Director of News Bureau ............. Martha Baepler
Director of Prospect Research ....... Lois Hoeppner, B.A.
Office Manager ........................ Dorothy Heffernan
Coordinator of Alumni Activities ...

National Alumni Association Board

John P. Schroeder (President) ....... Zionsville, Indiana
Charles F. Lembke (Vice-President) . Crawfordsville, Indiana
Alan Morrison (Vice-President) ...... Valparaiso, Indiana
Larry Evans (Vice-President) ....... Valparaiso, Indiana
Edward E. Busse (Vice-President) ... Bloomington, Illinois
Judy Nagel (Secretary) .............. Valparaiso, Indiana
Edward S. Wolff (Treasurer) ......... Fort Wayne, Indiana
Arthur T. Wellman (Past President) . Geneva, Illinois
Herman C. Hesse
(University Representative) ....... Valparaiso, Indiana

Parents Council

John E. Baerwald ....................... Champaign, Illinois
Albert K. Doak ........................ Speedway, Indiana
Louis A. Jacobs ....................... Decatur, Indiana
Richard H. Jahns, Sr. ............... Fort Lauderdale, Florida
Walter H. Moore ....................... LaPorte, Indiana
Mrs. Richard Walsh ................... Crown Point, Indiana
Frederick H. Wehrenberg ............ Fort Wayne, Indiana
general information
PRESIDENTS OF THE VALPARAISO MALE AND FEMALE COLLEGE, THE NORTHERN INDIANA NORMAL SCHOOL AND BUSINESS INSTITUTE, VALPARAISO COLLEGE, AND VALPARAISO UNIVERSITY

1859-1860  The Rev. Francis D. Carley, M.A. (acting)
1860-1862  The Rev. Charles N. Sims, M.A.
1862-1864  The Rev. Erastus Herman Staley, M.A.
1864-1867  The Rev. B. Wilson Smith, M.A.
1867-1869  The Rev. Thomas Bond Wood, M.A.
1869-1871  The Rev. Aaron Gurney, M.A.
1871-1873  (The presidency vacant, no acting president)
1873-1917  Henry Baker Brown, A.B.
1912-1919  Oliver Perry Kinsey, A.M. (acting)
1919-1920  Henry Kinsey Brown, M.A.
1920-1921  Daniel Russel Hodgdon, A.B., LL.D.
1921-1922  John Edward Roessler, A.M., Litt.D.
1922  Milo Jesse Bowman, A.M., LL.B., LL.D.
1923-1926  Horace Martin Evans, M.D.
1926  The Rev. John C. Baur (acting)
Albert Frederick Ottomar Germann, Ph.D. (acting, 1927)
The Rev. John C. Baur (acting, 1927-1928)
1929-1930  Executive Committee (The Rev. John C. Baur, Mr. Albert Frank Scribner, Dean Frederick William Kroencke, and Dean Henry Herman Kumnick)
1930-1939  The Rev. Oscar Carl Kreinheder, D.D.
1939-1940  Walter George Friedrich, Ph.D. (acting)
1968-  The Rev. Albert G. Huegli, Ph.D., LL.D., D.D.
HISTORY OF VALPARAISO UNIVERSITY

The history of Valparaiso University begins in the days before the Civil War. On September 21, 1859, the Valparaiso Male and Female College was opened at Valparaiso, Indiana. The fact that it was a co-educational institution at a time when women were rarely admitted to college marked it as a pioneer from the start. The college prospered at first, but reverses resulting from the Civil War caused classes to be suspended in 1869.

On September 16, 1873, the college was reopened as the Northern Indiana Normal School and Business Institute by Henry Baker Brown, who was joined in 1881 by Oliver Perry Kinsey. The School of Law was organized and added to the institution in 1879 by the Hon. Mark L. De Motte. Under the leadership of these men, the institution grew rapidly in size and influence. In 1900 its name was changed to Valparaiso College, and in 1907 to Valparaiso University.

Two fundamental principles molded the character of Valparaiso University during this phase of its history. On the one hand, its administrators carried out its ideal of service to youth by providing useful training at any level from elementary schooling on up, and by making vocational or liberal arts education financially available to every worthy student who applied. Secondly, character training, through personal interest and contact of the faculty and administration with the individual student was as much an aim of the University as the imparting of facts and skills. The pioneering spirit of the early Valparaiso University and its worthy ideals have become a part of its character today.

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 past quarter century of development has made Valparaiso a medium sized institution, capable of educating approximately five thousand students each year and of playing a responsible role in the Church and community life of twentieth century America.

OBJECTIVES

In common with other institutions of higher learning, Valparaiso University has assumed an obligation to assist in the preservation and perpetuation of the accumulated and systematized knowledge of mankind. Briefly stated, its function is twofold: (1) to interpret the cultural heritage of mankind in the process of transmitting it to young men and women in a teaching and learning situation, and (2) to enlarge the dimensions of knowledge and truth by means of scholarly research. But within this general obligation Valparaiso University, being a church-related institution, has a special commitment, namely, to serve the distinctive educational needs of its supporting constituency. For this reason it gives centrality to the religious heritage of mankind, particularly to the Christian heritage as transmitted by the Lutheran Church, which constitutes the largest body of Protestant Christians in the world. One of its primary aims, therefore, is
to help evaluate and preserve this heritage and to relate it constructively to
the world of today and tomorrow.

Valparaiso University is concerned with the education of the total man.
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. Although required by its nature to be
pre-occupied with the intellectual, Valparaiso University aims to make
scholarship effective in the realms of feeling and expression as well. Through
required courses in religion, by means of daily matins, and in other ways,
an attempt is made to integrate the educational experiences of its students
for the purpose of emphasizing and cultivating the essentially spiritual
nature of man. This educational philosophy is summarized in its motto,
“In Thy Light We See Light.” (Psalm 36:9.) Students entering the Uni-
versity are assumed to be in accord with its purpose and willing to abide
by its program.

More detailed statements concerning the specific objectives of Valparaiso
University may be found in the descriptions of the College of Arts and
Sciences, the College of Business Administration, Christ College, the Col-
lege of Engineering, the College of Nursing, and the School of Law.

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, is a prosperous agricultural
region adjoining 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 physi-
cal 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 commer-
cial 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. The proximity
of the Beatty Memorial Hospital at Westville offers opportunities for
observation and laboratory experience to advanced students in such areas
as education, psychology, sociology, and recreational activities.
Since Chicago can be reached in approximately an hour by car or rail-
road, 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.

ACCREDITATION
Valparaiso University is on the approved list of the North Central
Association of Colleges and Secondary Schools, the State Board of Educa-
tion of Indiana, and the National Council for Accreditation of Teacher
Education. It is also accredited with the National Association of Schools of
Music and the American Association of University Women. It 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.

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 is an agency member of the National League for Nursing and the NLN Council of Baccalaureate and Higher Degree Programs.

**FOCUS**

Valparaiso University aspires to serve the growth of whole men and women. It sees knowledge of the Christian tradition as essential to an educated man and so requires every student to complete a number of courses in religion. In exceptional cases, the Committee on Academic and Professional Standards may permit a student to substitute courses in other departments for courses in religion.

No student is required to confess Christ, but every student is required to know something of the Christian tradition as a part of a rounded education, and as resource for facing squarely who he is and what part there is for him to play in the church and in the world.

Valparaiso University strives for a community of learning and life expressive of the way of Christ in whose light we would seek truth and do it.

**IN THY LIGHT WE SEE LIGHT**

The University community has Morning Prayer at 10:10 Monday through Friday during the academic year. This is the daily time for members of the University to identify themselves as a Christian community committed to learning and growth toward the service of Christ and men. On Sunday Matins and Holy Communion are held, and Vespers every evening of the week.

The ministry of Word and Sacrament at Valparaiso University is conducted in accordance with the Lutheran confessions and is the responsibility of members of the University organized in the program of worship and service of the Chapel of the Resurrection. The team ministry includes the Dean of the Chapel, who is also Preacher to the University, the President of the University, the Chancellor of the University, and members of the faculty and student body. The core staff is made up of those with particular responsibility for theology, worship, counseling ministry, residential ministry, and the arts. Three choirs, groups of musicians, students and faculty participate in the preparation and worshipping of a variety of services.

A pastoral ministry is carried on in the residences. Group study and
devotions are often arranged among those who live together. Many ques-
tions are faced and discussed in wide-ranging evening programs in the
undercroft of the Chapel. The pastoral staff of the Chapel is available for
members of the University community at any time. A pastor is at the Chapel
every evening through the week. Every courtesy is extended to churches of
the city of Valparaiso to do pastoral work among students of their de-
nomination.

The Twenty is a consultative group that meets monthly to think forward
creatively toward more vigorous worship and service. Ten are faculty, ten
are students, serving to represent the whole range of the University com-

**STUDENT CONDUCT**

When a student enrolls at Valparaiso University, he thereby accepts the
rules, regulations, and procedures as found in the University Catalogue
and the *Student Handbook*. Compliance with these is expected. These rules,
regulations, and procedures best enable the University to pursue its ideals
and maintain its standards. A student who does not comply can expect to
be separated from or invited to leave the University.

Regulations for student conduct at Valparaiso University are founded on
Christian principles. The University places full confidence in its students,
and it imposes only such regulations as have been shown by experience to
be necessary. These regulations are given in detail in the *Student Handbo ok*.

Certain offenses may cause the separation of a student from the Uni-
versity. The University reserves the right to terminate a student’s enroll-
ment whenever, in its opinion, his conduct is prejudicial to the best intere-
sts of the University. Such a decision will normally be made only by the
President of the University on the recommendation of the Campus Board
of Review.

**HONOR SYSTEM**

The student-initiated Honor System, administered by the Honor Council,
is recognized and approved by the University as an integral part of the reg-
ulations under which students become members of the University family.
The basis on which the Honor System at Valparaiso University is
founded is in every way consistent with the highest principles of Christian
ethics and morality and presumes that students are able and willing to
accept the duties and responsibilities for maintaining the principles of
honorable conduct for the sake of the University community.

Under the Honor System all written examinations, of any length, are
taken in an atmosphere free from the surveillance of a proctor. Every
student has the responsibility to keep academic work free of dishonesty, that
is, to neither give nor receive unauthorized aid. Non-toleration of the use
of unauthorized aid is a further responsibility which is inherent in the
Honor System. Each student must report to the Honor Council any viola-
tion of the System that he becomes aware of. The student is usually asked
to sign a pledge on work done for academic credit to the effect that no
unauthorized aid was given, received, or tolerated.

The Honor Council is an educational, preventive, remedial, and judicial
body with the duty of maintaining the Honor System in the academic com-
munity. 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 in the case. The Council is composed of students who are chosen by the incumbent members subject to the approval of the President of the University.

Manifestly, it is impossible for anyone to become a member of the University community without both explicit and implicit adherence to the Honor System.

The faculty reserves the right to abrogate the Honor System at any time.

**STUDENT PERSONNEL PROGRAM**

The student personnel program, which is under the supervision of the Vice-President for Student Affairs, co-ordinates the various services provided by the University for student welfare and development. It is designed to assist each student in attaining the highest possible level of achievement in academic, personal, social, and vocational situations. A complete personnel record of each student is kept in the office of the Vice-President for Student Affairs.

**UNIVERSITY COUNSELING SERVICES**

*Academic Counseling*

Shortly after his initial registration, each student is assigned to an adviser who confers with the student and serves as friend, confidant, and counselor. In these conferences, an effort is made: (1) to acquaint each student with the offerings, activities, and regulations of the University; (2) to assist him in self-analysis; (3) to assist him in making intelligent academic and vocational choices on the basis of such analysis; (4) to provide guidance for the attainment of these goals.

*Chapel Counseling Center*

Under the direction of the Dean of the Chapel a pastoral counselor is available every evening and several afternoons each week in the chapel. Here students may consult a counselor on any personal or theological concern.

*University Counseling Center*

The professional psychologists here offer individual and group counseling and psychological testing for all full-time students who desire it. The Director supervises the Open Loft, a drug education service and a sex education program, and coordinates all the counseling services on campus. A consulting psychiatrist is available through the Director or through the University Health Center.

The Chapel and University Counseling Centers function as administratively independent offices. Their records are kept separate and confidential and are available to others only on the written request of the counselee.

**PLACEMENT SERVICE**

The Placement Office offers assistance to Valparaiso graduates in securing employment. As a member of National College Placement Associations, 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 Placement Office keeps on permanent file the credentials (personal data and references) of all graduates who register, without any charge.

Browsing racks at the Placement 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.

HEALTH SERVICE

The purpose of Valparaiso University Health Service is to preserve, to protect, and to improve the physical and mental health of the individual student and the student body. To accomplish this purpose, the cooperation of each student, parent, and faculty member is necessary.

Any parent of a student with a health problem is most welcome and is encouraged to discuss the problem with the physician, either in person or by telephone. In no case will the physician discuss a case with anyone except the immediate family as this would be an unethical act.

The procedures for using the services of the Health Service are quite simple. In a routine case of non-emergency nature, the student is asked to call the Health Service for an appointment. The case will be evaluated by a nurse and referred to the physician when necessary. Any student who feels that he or she should see the physician is allowed to do so, although recurrent abuse of this privilege is frowned upon. In cases of minor emergencies, students should come directly to the Health Service or, if the accident or onset of the disease should happen after office hours, should contact the physician by telephone, through the dormitory or house director. Students with severe injuries or illnesses should be taken to the Porter Memorial Hospital. The nurse in charge at the hospital will notify the physician.

The Health Service is located at 810 La Porte Avenue. The hours are from 9:00 A.M. to 5:00 P.M., Monday thru Friday and from 9:00 A.M. to noon on Saturday. For emergencies, the physician is on call twenty-four hours a day, and, in case of his absence, another physician will substitute for him. Students who need in-patient care are admitted to Porter Memorial Hospital, which is located on the edge of the campus. This is a very modern hospital with all the most modern innovations for diagnostic and therapeutic measures.

The University has a compulsory Health Insurance Program covering each student. The fee-schedule is based on the charges of the local hospital, and will in most cases cover the larger part of costs. It is most advisable for both parents and students to become acquainted with this Program which can be done by reading the brochure given the student on registration day.

ADVISORY PROGRAM

Each student is assigned to an academic adviser for the purpose of guiding the student in the selection of a curriculum, in meeting the require-
ments of the University, and in making the most of his studies. The student is assigned to a General Adviser until he has selected his major. As soon as he has indicated his major, he will be assigned to the chairman of the department of his major as his Major Adviser. He may choose his major immediately upon entering the University, or he may postpone a choice until the beginning of his junior year, at which time he must select a major. In the College of Arts and Sciences a Divisional Adviser is designated as the General Adviser for an undeclared student based on his preference for one of the liberal arts divisions. A student who declares one of the special curriculum programs of the College is assigned an adviser for that program.

The failure to take courses which anticipate the requirements of some fields of study may lengthen the time needed to complete degree requirements. Students who are interested in teacher certification should declare this intention at the beginning of the freshman year if they desire to complete their degree and certification requirements in four years.

Each student must have his schedule signed by his academic adviser at the beginning of each semester before his schedule is filed with the Registrar. Subsequent changes in his 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
The *Lumen Christi* Medal is awarded to a layman for distinguished service to the Lutheran Church in America.

Recipients of the Medal have been:

1950  John A. Sauerman  Chicago, Illinois
1951  W. H. Schluter  St. Louis, Missouri
1952  Emil C. Jacobs  Cleveland, Ohio
1954  Fred Wehrenberg  Fort Wayne, Indiana
1956  Emma (Mrs. Walter N.) Hoppe  Cleveland, Ohio
1961  Theodore W. Eckhart  Brentwood, Missouri
1963  Paul F. Amling  Mt. Prospect, Illinois
      Walter H. Gross  Flossmoor, Illinois
      Richard E. Meier  Evansville, Indiana
1964  Edward A. Seegers  River Forest, Illinois
      Alfred C. Munderloh  Detroit, Michigan
1966  Paul Brandt  Fort Worth, Texas
      Robert C. Moellering  Fort Wayne, Indiana
1970  Albert F. Scribner  Valparaiso, Indiana

LECTURES
*John Martin Gross and Clara Amanda Gross Memorial Lectures*

The lectures are presented annually during the first week of Lent to the entire University community. They were established by Mr. and Mrs. Walter H. Gross of Flossmoor, Illinois.

Each year outstanding religious leaders are invited to present these lectures.
VALPARAISO UNIVERSITY

J. W. Miller Memorial Lectures
These lectures were established in memory of The Reverend J. W. Miller of St. Paul's Lutheran Church, Fort Wayne, Indiana, one of the founders of Valparaiso University under Lutheran management.

The lectures are presented on the campus during Reformation Week each year by prominent religious leaders.

Percy H. Sloan Memorial Lectures in Art
These lectures are ordinarily presented monthly by prominent artists, usually in connection with an exhibition of their work at the Sloan Galleries of American Paintings.

The lectures were established as a memorial to Percy H. Sloan, who established and endowed the Galleries.

A.J.W. and Elfrieda M. LeBien Endowment Fund for Lectures On Liturgy
The income from this fund is to be used for special lectures on Liturgy and to publish brochures related to the Chapel of the Resurrection.

University Lectures
From time to time during each academic year, the University presents lectures on various topics of current interest. These lectures, which are given at University convocations, are considered an integral part of the educational program of the University.

AWARDS

Lutheran Laymen's League Scholarship Awards
Scholarship keys and cash awards are made each year by the Lutheran Laymen's League to the highest ranking graduating seniors. Three awards are available in the College of Arts and Sciences, three awards in the College of Business Administration, three awards in the College of Engineering, three awards in the School of Law, three awards in the College of Nursing, and one award for a graduating senior in the Lutheran Deaconess Program.

The Sloan Galleries of American Paintings Awards
The Sloan Galleries of American Paintings annually awards 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.

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

Delta Theta Phi Scholarship Award
An annual award presented by Rentner Senate of the Delta Theta Phi Law Fraternity to the pre-law student who has the highest average in all collegiate work taken at Valparaiso University at the completion of his seventh semester in the College of Arts and Sciences, provided that the student has completed at least four of the seven academic semesters at Valparaiso University.
Lauretta Kramer Award
A plaque 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
The Walther M. Miller Memorial Prize is awarded annually to a graduating 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, who came to Valparaiso University as a member of its first Faculty under Lutheran auspices and served the University as Head of its Department of Foreign Languages and in various other capacities for more than forty years.

STUDENT ACTIVITIES

The Student Senate entrusted by the administration with executive, legislative, and judicial powers over the student body is composed of student representatives elected each semester. The purpose of the Student Senate is to enable students to assume the privileges and responsibilities of self government, and to coordinate the student body, the several colleges and schools, and the various organizations into an efficient and unified group.

The Elections Committee supervises the election of Student Senate officers, senators, and class officers and is responsible for all campus-wide special elections for Homecoming and Spring Festival.

The Homecoming Committee plans, organizes, and coordinates the annual Homecoming festivities at Valparaiso.

The Orientation Committee plans and coordinates a week of special activities each September to acquaint new students with social and academic life at the University.

The Scholarship Committee works with both the student body and the faculty and administration in a continuing effort to improve all phases of academic life at the University.

Central Activities Board 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.

WVUR, 89.5, Student Senate's official radio station, broadcasts campus events, news, and music to the University and surrounding community.

Student Publications include the following: The Torch, the official newspaper of the student body, is issued semi-weekly. The Beacon, the University yearbook, is published in the spring. The Lighter, a variety magazine, is published four times a year. The Candle, a supplementary guide to undergraduate courses, is published at the beginning of each semester.

Week of Challenge Committee develops programs during the year which bring various personalities onto campus to speak on chosen themes in the arts, social concerns, and other cultural and intellectual areas.
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, Phi Alpha Epsilon—Journalism, Pi Sigma Alpha—Political Science, Sigma Xi—Research, Tau Beta Pi—Engineering.

Miscellaneous Organizations:
Gamma Delta, Gold Splash—Swimming, Highlights, University Radio Club—K9UQR, Women's Recreation Association, Young Democrats, International Relations Club, Mental Health Club, Young Republicans, Alpha Phi Omega, Caparange, Young Americans for Freedom.

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 your friends, to bring your parents when they visit.

Among the many facilities of the Union are the cafeteria, for regular meals, and the snack bar for in-between meals and for late night refreshments. Private dining rooms are available, too, for special dinners.

Other facilities primarily of a recreational nature are the television room, the social and banquet hall, the art gallery, and the crafts and hobbies room. There is also a games 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.

*Intercollegiate and Intramural Athletics.* The programs of intercollegiate and intramural athletics are integral parts of the total educational task, giving all students opportunities to participate in many kinds of physical activity, 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 student the chance to develop many sound qualities and attitudes which cannot be taught as such in the classroom: respect for discipline and rules and constituted authority, teamwork, the capacity to lead and direct, the ability to act effectively under stress, loyalty to purpose, cooperation and self-discipline in times of achievement.

The mind and the spirit can best express themselves in a healthy body, and participation in athletic activities can enable a person to attain a whole-
ness of body, mind, and spirit which is in keeping with the true meaning of the education of the total individual.

For the non-participants—students, 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 and developed on and off campus.

Valparaiso University is a member of The Indiana Intercollegiate Athletic Association, the Indiana Collegiate Conference, the National Collegiate Athletic Association, and participates in the following college sports—football, basketball, baseball, tennis, golf, track, wrestling, swimming, and cross country. The Director of Athletics is responsible to the President of the University in the administration of the program within the framework of policies established by the University Senate on recommendation of its Committee on Intercollegiate Athletics. Academic eligibility rules which govern membership on the various athletic teams are established by the faculty. All men who have won the athletic letter "V" through participation in college athletics make up the Varsity "V" Association.

The University is definitely 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. Many different team and individual activities in which all students are invited to participate are scheduled throughout the academic year. Co-recreational activities are included in this program.

An intercollegiate and intramural program of athletics for women, sponsored by the Women's Recreation Association, is under the supervision of an instructor in physical education for women. Standards of the National Section on Women's Athletics serve as a basis for the conduct of physical activities. The W.R.A. is a member of the Athletic Federation of College Women. Every woman student is eligible for membership in W.R.A.

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

The Theatre, under the supervision of the Department of Speech and Drama, provides a means for much creative activity, both curricular and extracurricular. Students may enroll for courses in interpretive reading, acting, make-up, costume design, stage art, children's theatre, and directing. By becoming members of the University Players, they may try out for roles in major productions or may volunteer for backstage work.

The work in dramatics is built around two objectives. First, to provide a program which is enriching in a cultural way. Through active participation in plays, students become acquainted with great drama of the past and present, and consequently develop a sound critical sense. Secondly, to give students practical training in acting and in all phases of play production, including experience in various aspects of personnel management and in modern advertising.
The University Players present publicly each year five full length plays. These major productions are supplemented by one-act plays, most of which are classroom productions directed by students in play directing.

The Department of Speech and Drama and the Opera Workshop present from one to two music dramas each year. Students are thereby given training in a specialized form of acting.

A chapter of Alpha Psi Omega, national honor society in dramatics, recognizes by invitation to membership those students whose work has been outstanding in the University theatre.

Many of the productions of the University Players are given in the Workshop Theatre located in Kroencke Hall. This theatre is well adapted to intimate drama, theatre-in-the-round, and experimental plays. In this building are also found the classrooms, studios, and laboratories of the Department of Speech and Drama.

Staffed by members of the Speech and Drama faculty, the Bridge-VU summer theatre in the city of Valparaiso gives students additional training in all phases of dramatic art, especially as they are practiced in repertory theatre.

The Children's Theatre and The Theatre of Religious Concerns are two forms of theatre sponsored by the Department of Speech and Drama which give students training in specialized areas.

*Debate Club*, sponsored by the Department of Speech and Drama, consists of both varsity and novice teams which engage in a number of intercollegiate tournaments throughout the year.

*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 Society, and the Liturgical 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 small Liturgical 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 Stage 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. 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 the University Band and the University Choir 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 and a number of other organizations give students opportunity to extend service to the University community. Gamma Delta, affiliated with the national organization of the Lutheran Student Service Commission, sponsors a regular program of fellowship, recreation, and special speakers.

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

Alpha Phi Omega is a "National Service Fraternity," composed of college men assembled to develop leadership, promote friendship, and render service to the campus, community, and nation. Zeta Gamma Chapter, founded on Valparaiso's campus May 16, 1948, maintains an office at 818 Mound Street. Although Alpha Phi Omega is a service fraternity, its program contains many social events. Membership in this, the world's largest fraternity, in no may interferes with membership in a social fraternity. Pledgeship requires no hazing but is instead a period of constructive service.

Fraternities and sororities on this campus are more than simply social clubs. Many of the campus leaders are members of Greek organizations. In student government, in all phases of athletic participation, and in professional clubs and societies on the campus, fraternity and sorority members are always actively represented. Offering academic challenge, the close friendship of "brothers" and "sisters", athletic competition at the intramural level, and opportunities for community service projects as well as a comfortable social atmosphere, fraternities and sororities add much to the college education of today's young people.

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

The Engineering Supply Store, Incorporated, managed by a Board of Directors, consisting of three faculty members of the College of Engineering and two full-time students in the College of Engineering, is a non-profit organization for supplying drawing equipment and slide rules to engineering students. Surplus funds are used for defraying the expenses of inspection trips, library facilities, and other professional activities of the student body.

SOCIAL ACTIVITIES

The University believes that a sound and interesting social program is an important part of student life. For that reason, it has appointed a Director of Social Activities, who acts as general adviser for all social events. Students share in the responsibility of arranging the all-campus social program through the Union Board. In the various residence halls, there is a well-rounded social program under the supervision of the residence hall directors and their social program committees of student
members. Sororities and fraternities have numerous social events. The center of social activities is the Valparaiso Union, where the facilities include cafeteria, snack bar, television lounge, main lounge, social and banquet hall, music lounge, bowling alleys, and a room for billiards and table tennis. Meeting rooms are available for all groups and most of the main student organizations, including Student Senate and the publications, have offices in the Union building. Parties, picnics at the Dunes State Park, ski trips, concerts by professional groups, a series of films, and other activities contribute to a well-rounded social program.

THE SLOAN GALLERIES OF AMERICAN PAINTINGS

The Sloan Galleries of American Paintings and its extensive collection of works by American artists are located in the Henry F. Moellering Memorial Library. This 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 throughout the campus as well as in the Galleries, making a significant contribution to the cultural life of the students. The Galleries, in addition to exhibiting works from the collection, maintain a schedule of exhibitions representing various aspects of American art. It is in this way that the University, through the generosity of the late Percy H. Sloan, promotes and encourages interest in art and displays its concern for the cultural welfare of its students.

The Committee on the Sloan Fund, charged with administering the collection and fund, is composed of Professor Warren Rubel, Chairman; Vice-President Emeritus Albert F. Scribner; Professor Walter Friedrich; Professor Vera T. Hahn; Professor John Strietelmeier; Professor Jack Hiller; Associate Professor Byron Ferguson; Associate Professor Richard Brauer; and Mr. Louis P. Miller, Trustee.

Associate Professor Richard Brauer is the Curator of the Galleries.

UNIVERSITY LIBRARY FACILITIES

The Henry F. Moellering Memorial Library. The general library of the University contains over 325,000 items, including 220,000 standard volumes, 20,000 government publications, 44,000 pamphlets, and over 20,000 bound volumes of periodicals. The library also holds 1,584 reels of microfilm and 5,000 units of microcards. Microfilm and microcard readers are available.

It receives by gift or by subscription over 1,681 periodicals.

It is a depository for selected publications of the United States government.

The Instructional Materials Center, The Music Record Library, and the Developmental Reading Laboratory are located on the lower level of the Library. The Curriculum Library is housed in the Education Building.

Law Library. The library of the School of Law is located in Wesemann Hall. Additional information regarding the facilities of the Law Library will be found in the section of this catalogue describing the School of Law.
Seventy-three instructional, residential, and service buildings are located on the 303-acre campus of the University. The buildings and grounds are valued at approximately thirty 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 across U. S. Highway 30 from it 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.

MAJOR BUILDINGS

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, the Alumni, the Valparaiso University Guild, and many other individuals 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 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 Fred and Ella Reddel Memorial Organ was dedicated with the Chapel on September 27, 1959. It has a movable console and 70 ranks at present with a maximum future capacity of 104 ranks. Among its unique features is a 61-pipe copper Trompeta Real.

The Music Window, a gift of Mr. and Mrs. Richard E. Meier, rises more than 55 feet in the center front of the Chapel. Crafted in Cologne, Germany, it contains more than 3,400 pieces of exquisitely colored, mouth-blown, European antique glass which admits light but prevents glare.

The Chancel Windows also were crafted in Cologne, Germany, in a modern design to match the modern style of the Chapel. The center window, facilitated by a sizable gift from Mr. and Mrs. Alfred C. Munderloh, was completed in 1960. Two companion windows, also a gift of Mr. and Mrs. Munderloh, were installed in 1964 to complete the Father, Son, and Holy Spirit motif.

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 Baptistery, at the foot of the circular staircase off the narthex, consists of a five and one-half ton font made of a single block of Rockville granite and a paschal candlestand and a 17-foot hanging sculpture made of torch-fired bronze. The Chapel office, at the west side of the narthex, and the Baptistery were gifts of Mr. and Mrs. A. J. W. LeBien. Income from an endowment established by the LeBiens provides for lectures on liturgy and the printing of brochures related to the Chapel.

Other objects in the Chapel narthex are individual memorials.

*The Henry F. Moellering Memorial Library*—Dedicated on December 6, 1959, as the University’s first official act of its second century, the library is a gift of Mrs. Henry F. (Margaret) 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 and facilities for storage and repair of paintings are on the lower floor.

*Altruria Hall*—a residence hall for upperclass women. The room only fee is $180.00 per semester.

*Alumni Hall*—a residence hall for 348 women, first occupied in 1966. The room and board fee is $487.50 per semester.

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

*Baldwin Hall*—contains classrooms and large laboratories for physics. The third floor temporarily contains studios for the Department of Music.

*Bogarte Hall*—contains classrooms and offices for the Department of Music.

*Brandt Hall*—a residence hall for 346 men was first occupied in 1962 and is connected to Wehrenberg Hall by a rotunda dining room. The room and board fee is $487.50 per semester.

*Christ College*—contains the President’s office, the office of the Dean of Christ College, faculty offices, classrooms, seminar rooms, lecture-theatre room, and a small dining-meeting room. A gift of an anonymous donor, it was first occupied in 1970.

*Dau Hall*—a residence hall, octagonal in shape, for 164 freshman men, was constructed in 1955 as a twin to Kreinheder Hall, to which it is connected by co-ed dining and commons rooms added in 1964. The room and board fee is $487.50 per semester.
Deaconess Hall—a dormitory and headquarters for the Lutheran Deaconess Association, was constructed in 1957 with funds from the Lutheran Women's Missionary League and the "Building for Christ" campaign of The Lutheran Church-Missouri Synod. It houses 60 women and includes a chapel, meal facilities, and offices.

DeMotte Hall—three upper floors house the College of Business Administration; the ground floor contains a lecture room, laboratory, and an office of the Department of Geography.

Education Building—the former elementary school building of Immanuel Lutheran Church, Valparaiso, it was purchased and renovated for teacher education purposes in 1968.

Educational Administration Building—a former residence owned by Immanuel Lutheran Church, it was renovated for faculty and administrative offices in 1967. It contains the offices of the Vice-President for Student Affairs and of the Deans of Men and Women.

Foreign Language Center—is a one-story brick building, completed in 1968, which has 18 classrooms, a language laboratory, and offices for faculty members.

Fraternity row—six dormitory-residences, housing 50 men each, was built in 1969 and made available for use by fraternities.

Gellersen Engineering-Mathematics Center—made possible by the gift of William Gellersen, it was first occupied in 1968 and contains all offices, classrooms, and laboratories of the College of Engineering and the Department of Mathematics.

Graland Hall—completed in 1956, it contains the offices of the Division of Public and Alumni Affairs.

Guild Center of Admission—a gift of the Valparaiso University Guild, and occupied in 1965, this one-story building has facilities for the Director of Admissions, Director of Financial Aid, and a conference room for the University's Board of Directors. A 1969 addition houses the offices of the Dean of Student Services and Placement Director.

Guild Hall—a gift of the Valparaiso University Guild, this is a residence hall for women built with Memorial Hall in 1947. The room only fee is $190.00 per semester. The Office of the Vice-President for Administration is in the north wing of the ground floor, and the Office of the Registrar is in the south wing.

Gymnasium—constructed in 1939, it contains a gymnasium, offices, team rooms, locker and shower rooms. A major expansion, completed in 1963, includes a six-lane intercollegiate swimming pool, over 2,000 additional gymnasium seats, an auxiliary gymnasium, wrestling room, multipurpose room, additional dressing rooms, offices, and public restroom facilities.

Heimlich Hall—contains general-purpose classrooms. The third floor houses the studio of radio station WVUR.

Heritage Hall—contains a small psychology classroom, a large general classroom, student lounge, and administrative and faculty offices.
Kreinheder Hall—a residence hall, octagonal in shape, for 164 freshman women, it was constructed in 1955 as a twin to Dau Hall, to which it is connected by co-ed dining and commons rooms which were added in 1964. The room and board fee is $487.50 per semester.

Kroencke Hall—completed in 1952, it 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 1956, provides space for classes in stage design, costume design, and make-up, as well as storage for theatre properties and costumes.

Lankenau Hall—a residence hall for 348 women, it was first occupied in 1964. The room and board fee is $487.50 per semester.

LeBien Hall—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.

Lembke Hall—the north wing houses upperclass men; the south wing contains an art laboratory and faculty offices.

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

Memorial Hall—residence hall for women built with Guild Hall in 1947. The room only fee is $190.00 per semester. The Computer Center is located in the north wing on the ground floor.

Moody Laboratory—completed in 1946, houses psychology laboratories.

Music Hall—practice rooms and offices for the Department of Music, to be completed in 1972.

Julius and Mary Neils Science Center—a gift of the Neils family, it contains offices, laboratories, and research facilities for the Departments of Biology and Chemistry. The first unit was completed in 1967.

Scheele Hall—a five-story residence hall accommodating 328 sorority women and providing sorority-allocated lounges, was first occupied in 1961. The room and board fee is $487.50 per semester.

Stiles Hall—purchased in 1946 and renovated, it contains apartments for students, faculty, and administrative personnel.

Valparaiso Union—completed in 1955, it contains student offices, lounges, meeting rooms, recreation facilities, a cafeteria-snack bar, and dining and banquet rooms. The Union, a center of activity for the campus community, is designed to serve as an informal educational agency through its programs and facilities and to provide a rounded and wholesome social, cultural, and recreational program.

Wehrenberg Hall—A four-story, Y-shaped residence hall for 302 freshman men, was first occupied in 1959. The room and board fee is $487.50 per semester.
**Wesemann Hall**—named for benefactors, Mr. Adolph H. and his wife, Janette G. Wesemann, the School of Law building contains two 50-student classrooms, a classroom-courtroom, and a faculty lounge and seminar room which also serve as judge's chambers and jury room in a classroom wing. The library wing contains stacks for approximately 70,000 volumes, librarian's office and workroom, eight double carrel alcoves, and eight private study rooms. Administration and faculty offices are in a third wing. It was first occupied in 1963.

**EXPENSES**

**UNDERGRADUATE AND PROFESSIONAL TUITION**

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<thead>
<tr>
<th>College or School</th>
<th>Each Semester</th>
<th>Academic Year (2 semesters)</th>
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<tbody>
<tr>
<td>College of Arts and Sciences</td>
<td>$910.00</td>
<td>$1,820.00**</td>
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<tr>
<td>College of Business Administration</td>
<td>910.00</td>
<td>1,820.00</td>
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<td>College of Engineering</td>
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<tr>
<td>College of Nursing</td>
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<td>School of Law</td>
<td>910.00</td>
<td>1,820.00</td>
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**FEES**

The General Fee for each semester amounts to $82.00, composed of a Student Senate Fee of $13.50 and a University Fee of $68.50. The fee is paid by all full-time students registered for at least 10 credit hours per semester. The University fee of $68.50 is used to defray the cost of the following services: The Union mortgage and operation, the athletic program, the Health Center and student hospitalization and travel insurance, the Library and special activities, such as the Band, University Players, and lectures and convocations. The Student Senate Fee of $13.50 is used for *The Torch, The Beacon, The Lighter*, and student operated programs.

Laboratory fees are charged in some departments and are listed under the respective courses. All students enrolling for laboratory courses are financially responsible for breakage or damage to equipment. Instructors report such damage to the Business Office and the student or the parent is billed for the cost of repair or replacement.

**APPLIED MUSIC FEES**—The University encourages students to continue applied music instruction by charging modest fees for private lessons.

Non-music majors will pay a fee of $60.00 per semester for instruction in one private or class lesson in applied music with no additional charge for use of instrument or practice room. Students taking private lessons beyond one applied music subject will pay an additional $30.00 for each subject.

Students taking private music lessons are held responsible for making arrangements with the instructor to complete all lessons during the semes-

*Any day student who registers for a given semester in day and Evening Division classes will be considered to be a day student and will be charged the regular charges applicable to a day student. A day student may not take more than 6 hours in the Evening Division Program.*

**Music majors add $40.00 per semester ($80.00 per year). This includes all applied music fees.**
ter. If the student is unable to complete within the semester the series of
lessons for which he was assessed, a report should be made immediately
to the chairman 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.

Students who register for from 7 to 9 credit hours pay a tuition charge
of $50.00 per credit hour and pay a general fee of $32.00 each semester.
This fee does not include the use of the facilities of the health service nor
participation in the student insurance plan.

Students who register for no more than 6 credit hours pay a tuition
charge of $50.00 per credit hour and pay a general fee of $17.00 each
semester. This fee does not include the use of the facilities of the health
service, nor participation in the student insurance plan, nor the Union
building fee.

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

Auditors pay $50.00 per credit hour equivalent.

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

HOUSING REGULATIONS

University Regulations**—require all freshman and sophomore men
to live in University residence halls. Junior and senior men may elect to
live off campus in private housing. All freshman, sophomore, and junior
women students are required to live in University housing. Any student 21
or older may live where he chooses. An exception will also be made for
students desiring to live at home with parents.

Graduate, Law, and Married Students—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 assures
students of no discrimination. 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. The University is not involved in arrangements be-
tween students and landlords.

Application—for University housing is mailed to each new student with
the Permit to Enter form. This application and the $50.00 housing deposit

*For Selective Service purposes, a full-time student is one who is carrying a mini-
mum of 24 semester credits for the year (two semesters) in the College of Arts
and Sciences, College of Business Administration, or the College of Engineering.
22 semester credits in the School of Law.

For Veterans Administration purposes, a full-time undergraduate student is one
who is carrying a minimum of 12 semester credits for each semester of the school
year (7 semester credits in a summer session).

**Class standing is determined by academic standards.
should be returned to the Admissions Office as soon as possible. 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 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 May 1.

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 the fall semester. No refund will be given after June 1. 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 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 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. Most students use the optional linen service from a local firm at a reasonable rate, 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 for the convenience of its students in the Valparaiso Union and in several residence halls.

The operation of all University food service is under the direct supervision of an experienced chef who acts as Director of University Restaurants. The University provides the best possible food service at prices consistent with present day food costs.

Students who reside in Brandt Hall, Scheele Hall, Wehrenberg Hall, Lankenau Hall, Dau Hall, Kreinheder Hall, and Alumni Hall are required to contract for both board and room. Students residing elsewhere should come prepared to pay for meals in cash wherever they choose to eat. The Union Cafeteria provides food service for such students.

**ESTIMATE OF EXPENSES**

The following table will enable the student to form an estimate of average expenses for one semester:

**COLLEGE OF ARTS AND SCIENCES**

<table>
<thead>
<tr>
<th>Item</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$910.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>82.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>487.50</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>100.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,579.50</strong></td>
</tr>
</tbody>
</table>

**COLLEGE OF BUSINESS ADMINISTRATION**

<table>
<thead>
<tr>
<th>Item</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$910.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>82.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>487.50</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>100.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,579.50</strong></td>
</tr>
</tbody>
</table>

**COLLEGE OF ENGINEERING**

<table>
<thead>
<tr>
<th>Item</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$910.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>82.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>487.50</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>100.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,579.50</strong></td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

COLLEGE OF NURSING

Average Cost

Tuition ........................................... $ 910.00
General Fee .................................... 82.00
Rent of Room and Board ....................... 487.50
Lab. Fees, books, supplies, and Insurance .. 115.00
Transportation (Junior and Senior Years only.) 50.00

$1,644.50*

SCHOOL OF LAW

Average Cost

Tuition ........................................... $ 910.00
General Fee .................................... 82.00
Rent of Room and Board ....................... 487.50
Lab. Fees, books, and supplies ............... 100.00

$1,579.50

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.

No degree will be conferred upon and no transcript of credit will be given for a student whose account with the University or the Student Senate has not been settled in full.

EDUCATIONAL EXPENSE PAYMENT PLANS

Parents of Valparaiso University students may select one of the following plans for the payment of educational expenses:

(a) Insured Tuition Payment Plan, which spreads the costs of tuition plus room and board charges over a period of 44 monthly payments.

(b) College Aid Plan. This plan permits the parent to finance the student's college educational expenses by selecting a payment plan and schedule which meets his financing requirements.

(c) The University's Time Payment Plan. This plan which will be available only for the academic year 1971-1972 permits the parent to make four payments each semester which are due on the 15th of each month following registration. An application charge of $2.00 plus 1 percent of the amount placed on time payments is added to the account. Delinquent payments are subjected to a 1 percent per month charge.

Additional information on any of these plans can be secured from the Office of Admissions, the Director of Financial Aid, or the Business Office of the University.

*In addition, there is a special fee of $100.00 for uniforms. This fee is payable only once and occurs during the sophomore year.

**See Special Fees, p. 70.
PAYEE
Drafts, checks, and money orders, should be made payable to the Valparaiso University Association, Inc.

REFUNDS†
In case of formal voluntary withdrawal*** only, the tuition fee and room rent in university operated dormitories are refundable as indicated below. Refunds are made until seven weeks after the first official day of registration of a semester. If a student is dismissed, there is no refund due. General, special, and laboratory fees are never refunded.

<table>
<thead>
<tr>
<th>Week of Semester</th>
<th>Tuition</th>
<th>Room Only</th>
<th>Room and Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$800.00</td>
<td>$130.00</td>
<td>$390.00</td>
</tr>
<tr>
<td>2</td>
<td>675.00</td>
<td>115.00</td>
<td>365.00</td>
</tr>
<tr>
<td>3-4</td>
<td>520.00</td>
<td>90.00</td>
<td>310.00</td>
</tr>
<tr>
<td>5-6</td>
<td>375.00</td>
<td>65.00</td>
<td>205.00</td>
</tr>
<tr>
<td>7</td>
<td>210.00</td>
<td>40.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Refunding of a portion of the board charge may occasionally be permitted under circumstances where the student, because of academic requirements beyond his control, is not able to take certain meals in the dormitory.

Refunds are made to students unless the University is instructed in writing to remit to parents or guardians. Refunds must be claimed in writing within six months of the close of the semester in which the fees were assessed.

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

Automobile Registration Fee—$10.00.
Matriculation—$5.00. This fee is payable once only, when the student registers in the University.

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

Developmental Reading Program Fee—$25.00.

Transcript—No charge is made for the first transcript issued. One dollar is required for each additional transcript. No official transcript of a student’s record is released until the student has met in full his obligations to the University.

Late Registration Fee—$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.

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

***See p. 99.
STUDENT SENATE FEES

The Student Senate has been entrusted with the management of certain student activities and the activities fee which is collected by the University each semester and is allocated to the Student Senate entitles the student (1) to the events and activities sponsored by the Union Board of the Student Senate; (2) to admission to most of the lectures and entertainments of the student lyceum; (3) to *The Torch*, which is published approximately sixty times and is edited by a staff appointed by the Student Senate; (4) to a copy of *The Beacon*, the students’ annual, which contains a comprehensive record of the year’s activities; (5) to *The Lighter*, a variety magazine, published approximately three times a year by a staff appointed by the Student Senate; (6) access to the Senate owned campus radio station, WVUR; (7) payment of class dues; and (8) all other events sponsored by the Student Senate.

A portion of the general fee collected by the University is also allocated to the Student Senate which entitles the student to membership in the Valparaiso Union.

FINANCIAL AID

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

The University also subscribes to the College Compact on Financial Aid with ninety-one other midwestern colleges.

TYPES OF AWARDS

Scholarships

Normally a student qualifies academically for a scholarship when he ranks in the upper ten per cent of his graduating class and has reported scores on the Scholastic Aptitude Test of the College Entrance Examination Board which clearly indicate that he should be able to maintain a B average at Valparaiso. Scholarships vary in size from $100 Honorary Citations to awards of full tuition.

Honorary Citations

Superior students who qualify for a scholarship but who can assume financial responsibility for their education without financial assistance
may receive this non-renewable award. The citation with a stipend of $100 is given at the time of entrance. An applicant is not required to submit the Parents' Confidential Statement.

**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 C average at Valparaiso.

**EDUCATIONAL OPPORTUNITY GRANTS**

Provided for in the Higher Educational 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 from $200 to $1,000 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 at the rate of $1.60 per hour. 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 Defense 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 full-time college attendance. A student may borrow up to $1,000 per year depending on his need. If the borrower teaches after graduation, the loan will be cancelled at the rate of 10% for each year he teaches, to a maximum of 50%.

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

**RENEWAL**

With the exception of scholarships, which will be in effect as long as the student achieves a 1.8 average on the 3.0 system for the preceding fall and spring semesters, 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 grant is 1.4 and for grants-in-aid, 1.0. Academic probation 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 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 arrives later than April 15.

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 will automatically be considered for whichever of these restricted awards he is eligible. If additional information is required of him, he will be contacted after he 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.

Aid Association for Lutherans. Certificate-holding members—five four-year full-tuition.

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

Anna B. Althans. Social work major—$200.00 annually.

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—$400.00 annually.

William F. Boeger Memorial. $175.00 annually.

(Mrs.) Amalie Bokerman. Resident of Pennsylvania—$175.00 annually.

John V. Borgerding. Resident of greater Pittsburgh or Pennsylvania—$175.00 annually.
Mr. and Mrs. Raymond Born. Resident of Wisconsin, Plymouth and Sheboygan area preferably—$500.00 annually.

Brown Dairy. Resident of Porter County, Indiana—$500.00 annually.

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

John E. Christen Memorial Scholarship—$600.00 annual scholarship for the School of Law.

City Glass Specialty, Incorporated. Resident of Fort Wayne, Indiana—$1,000.00 annually.

Alpha Gamma Chapter of Delta Kappa Gamma. Senior woman resident of Porter, Jasper, Newton, or Pulaski Counties in Indiana—$125.00 annually.

Reverend and Mrs. P. J. (Myrtle E.) Eickstaedt. $150.00 annually.

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

First Federal Savings and Loan Association of Valparaiso. Porter County, Indiana resident—$1,000.00 annually.

First National Bank, Valparaiso—Portage Branch. Resident of Porter County, Indiana—$1,500.00 annually.

Dr. and Mrs. E. C. Galsterer. Resident of Saginaw, Michigan or Saginaw Valley—$500.00 annually.

Gast Manufacturing Corporation. Resident of Southwestern Michigan—majoring in engineering—$500.00 annually.

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

Grace Fund Scholarship. Resident of Cleveland—$250.00 annually.

The Henry C. and Ura E. Guhl. $200.00 annually.

Hardt Foundation. Pre-medical student—$500.00 annually.

Charles G. Hauser. Children of employees of Litchfield Creamery Company, Missouri, or child of Missouri Synod Lutheran pastor at Litchfield—two awards—$250.00 annually.

Mary Hilgemeier. Member of Emmaus congregation, Indianapolis, Indiana—$200.00 annually.

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

Oscar Homann. Residents of Illinois—two awards—$600.00 annually.

Indiana Highway Constructors, Inc. Civil Engineering student for residents of the state of Indiana in varying amounts annually.

Indiana Home Economics Association. $350.00 scholarship to upper-class student, rotated alphabetically among privately supported institutions that offer degree in Home Economics.

Judge and Mrs. F. A. Jaeckel Memorial. $120.00 annually.

Richard F. and Martha W. Jeske. $900.00 annually.
Edward Jiede, Jr. $400.00 annually.

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.

Koinonia Scholarship. YLTP students in their last year of residence at the University—$300.00 annually.

The O. P. Kretzmann Scholarship Fund. $2,500.00 annually, renewable for three years. Established by the Class of 1970 to honor Dr. O. P. Kretzmann.

William H. Kroeger. Resident of Akron, Ohio—$250.00 annually.

Frederick William Kroencke Memorial. Upperclass student—$175.00 annually.

William F. and Florence R. Laesch. Preference given to business student from Michigan, Indiana, or Ohio in the amount of $300.00 annually.

Earl F. Landgrebe. To underwrite Washington Semester Program—$275.00 annually.

Mr. and Mrs. Erwin A. Lange. Major in College of Business Administration or Department of Mathematics—$200.00 annually.

A.J.W. and Elfrieda M. LeBien. College of Nursing student—$600.00 annually.

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

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

Mr. and Mrs. Eric Lippert. $550.00 annually.

Mr. and Mrs. W. H. Lippert. $1,000.00 annually.

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

Lutheran Brotherhood Life Insurance Society. Three junior Lutheran students—$500.00 each annually—also Lutheran high school seniors excelling in leadership—nine scholarships—$300.00 each annually.

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


Dr. E. W. Marquardt. $1,000.00 annually.

May Stone and Sand, Inc. Resident of Fort Wayne, Indiana—$500.00 annually.

Charles A. Maynard Memorial. Student majoring in the College of Engineering—$500.00 annually.
Meade Electric Company. Children of members of Local 967, International Brotherhood of Electrical Workers—two students majoring in electrical engineering and one woman majoring in elementary education—preference to campus residents—full-tuition annually.

Mr. and Mrs. Dirk Meyer. Resident of Pekin, Illinois—$200.00 annually.

Henry F. Moellering. Resident of Fort Wayne or Allen County, Indiana—$200.00 annually.

Northern Indiana Bank and Trust Company. Resident of Porter County—full tuition annually.

Dr. and Mrs. Richard Oster. Resident of New Orleans, Louisiana—$550.00 annually.

Mollie V. Page. Member of Bethany Lutheran congregation, Waynesboro, Virginia—$100.00 annually.

John Van Alstyne Peller Memorial. Upperclass student in College of Engineering, preferably civil—$200.00 annually.

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

Mr. and Mrs. Carl Rittberger. Resident of Columbus, Lancaster, and 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. Student in the College of Nursing.

Reverend and Mrs. M. J. Schliebe. $250.00 annually.

Mr. and Mrs. Jacob Schmidt. Resident of greater Kansas City area—full-tuition for four years.

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

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

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

Sievers Drug Company. Resident of Porter County area or Northwestern Indiana—majoring in chemistry or physics—$550.00 annually.

Sigma Tau Gamma. Upperclass Fraternity member.

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—full-tuition annually.

Edward I. P. Staede and Amanda Hall Staede. $400.00 annually.

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. $200.00 annually.

Arthur Sturm Memorial. Resident of Northern Wisconsin District or State of Wisconsin—$700.00 annually.

Lawrence E. Teich. Chemistry or Engineering student—$1,400.00 annually.

Mrs. A. Teske. Resident of Central Illinois—$250.00 annually.

Turk Family. Resident of Porter County, Indiana—$600.00 annually.

Dr. and Mrs. H. L. Ulbrich. $175.00 annually.

Urschel Laboratories. $500.00 annually.


F. G. Walker. Resident of Cleveland or Cuyahoga County, Ohio—$175.00 annually.

Philip Wambgsanss 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.

Mr. and Mrs. Henry Wehrenberg, Sr. Descendants of Henry W. Wehrenberg, Sr.—One annual award.

Wellman's. Resident of Valparaiso, Indiana—$500.00 annually.

Dr. and Mrs. J. Frederic Wenchel Memorial Scholarship. Worthy student—$400.00 annually.

West Bend Guild. Member of St. John’s Lutheran Church, West Bend, Wisconsin or graduate of West Bend High School member of Lutheran Church Synodical Conference—$750.00 annually.

Western Electric Company. Major in engineering, preferably electrical engineering—$1,200.00 annually.

Wheatridge Foundation. Candidates for social work in welfare agencies of the Lutheran Church—varying number of awards—full tuition annually.

A number of the districts of the Lutheran Laymen’s League offer awards to the highest competitor in their particular district. They are listed as follows:

Central Ohio District.

Decatur, Indiana Zone.

Missouri District.

Northern Indiana District.

Southern Minnesota District.

Washington District.
The National Defense Student Loan Program. Valparaiso University is participating in the National Defense Student Loan Program, and has established a fund consisting of contributions from the government and the University.

Any full-time student is eligible to make application for a loan from this fund. However the law provides that he must be capable of maintaining good standing in his chosen course of study. Half-time students, under certain conditions, will be eligible for a loan, the amount of which will be in relation to the number of hours for which they are registered.

A student may borrow in one year, a sum not exceeding $1,000.00, and during his entire undergraduate course in higher education a sum not exceeding $5,000.00. The repayment period begins nine months after the borrower ceases to be at least a half-time student and ends within ten years thereafter with minimum repayments as specified by law. No interest accrues prior to the beginning of the repayment schedule, and interest thereafter is to be paid at the rate of 3 per cent per year.

A borrower's obligation to repay the loan is cancelled in the event of his death or permanent and total disability. The law currently provides that under certain circumstances a portion of the loan may be cancelled for full-time teaching service.

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. Only full time students in the College of Nursing are eligible. The repayment period begins nine months after ending full-time nursing student status at Valparaiso University. The law establishing this fund provides for a deferment period during full-time nursing student status elsewhere for a five year period, and under certain circumstances for cancellation of a portion of the loan for full-time nursing service.

The Law Enforcement Education Program. Financial Assistance is available to the participants in this program. Application should be made to the Director of the Program on the Valparaiso University campus.

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 of 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 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. The Loan Fund is administered by a board of three members—one member is appointed by the Dean of the College of Medicine of the University of Illinois, one by the President of Valparaiso University, and, one by the Judge of Porter Circuit Court sitting in the City of Valparaiso, Indiana. 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 Dr. Albert F. Scribner, Valparaiso University. Upon approval of application to The Fund, a loan not to exceed $1,000.00 may be made to a qualified student by the Board. Only students classified by their respective institutions as juniors or seniors will be eligible for loan assistance.

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. Loans made for this trust are generally under $500.00 per academic year, and appropriate interest and repayment provisions are established by the Trustee at the time the loan is made. Interest starts and repayment provisions go into effect upon graduation or termination of attendance at Valparaiso University, whichever occurs earlier.

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 Valparaiso University Association Loan Fund.** A University Loan Fund has been established to help those students who cannot qualify for a scholarship but who must have financial assistance or those who with scholarships need more help. According to the regulations of this fund no freshman is eligible for a loan. A sophomore may borrow up to $200.00, a junior or senior up to $600.00. No student may borrow more than $1,000.00 during his stay on the campus.

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. Dinsmoore Memorial
- Frank B. Estell
- Oscar Homann
- Glenn Krabec
- 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 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.

**REPAYMENT TERMS**

For: **The Overton, Indiana Federation of Clubs, Schoenherr, Henry Strong, VUA, and Wesemann Loans:** No interest accrues while the borrower is enrolled full time at Valparaiso University; three per cent interest begins when he leaves. A four year repayment schedule is called for by the terms of the promissory note.

**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. No interest accrues while the borrower is enrolled full time at Valparaiso University; two per cent interest begins when he leaves and increases to six per cent. A four year repayment schedule is called for by the terms of the promissory note.

**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.
GENERAL INFORMATION

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.

TUITION EXCHANGE

Faculty Children's Tuition Exchange. Valparaiso University is a member of Tuition Exchange (with headquarters at Williamstown, Massachusetts). This is a plan under which children of teachers at participating colleges and universities may attend other member institutions without the payment of tuition.

Sons and daughters of college and university teachers who seek the grant of free tuition at Valparaiso should confer with the Liaison Officer for Tuition Exchange at the school where their fathers or mothers teach.

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

The Valparaiso University Federal Credit Union 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 pay an entrance fee of twenty-five cents ($0.25) and subscribe for at least one five-dollar ($5.00) share of stock. Payment of the entrance fee and 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 $20,000.00 are insured by the National Credit Union Administration.

SUMMER AND EVENING PROGRAMS

THE SUMMER SESSION

The Summer Session of Valparaiso University, 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 eight 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 provides a particularly challenging opportunity for pastors and other professional workers in the church who wish to strengthen their preparation and 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 the electives so as to strengthen their subject matter competence and, if they desire, also to add to their professional training in education.

The regular summer session of eight weeks on the undergraduate and graduate levels, begins on Monday, June 14, and terminates on Friday, August 6. Courses on the undergraduate level will be offered in the following subject matter areas: Accounting, Art, Biology, Economics, Education, English, Finance, Foreign Language, Geography, Government, History, Management, Mathematics, Music, Philosophy, Physical Education, Physics, Psychology, Social Work, Sociology, Speech and Drama, and Theology.

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

The institute for secondary school teachers of biology, June 28 to August 6, and the summer institute in Sociology and the social sciences, June 14 to August 6, offer graduate credit.

Valparaiso University also offers as an extension of the summer session of 1971 an Urban Problems Seminar conducted in Chicago for three or six semester hours of credit.

For further information write to: Director of Summer Session.

**SUMMER SESSION FEES**

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<td>15 30-minute lessons</td>
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The Evening Division of Valparaiso University, combining the services of the former extension and adult education program, was organized in the Spring of 1963 to make the educational 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.

In our community reside many people—teachers, office workers, technicians, and others—who desire to continue their college education for self-improvement or to complete requirements for a degree or for teacher certification. Most of these people are engaged in activities that do not permit them to attend classes during the day. Valparaiso University extends its facilities to this group of students through its evening courses which are the same in content, objectives, and credit value as corresponding day courses, and are taught by regular college instructors.

The Evening Division also includes non-credit or adult education courses for people who are not interested in qualifying as candidates for any degree or for teacher certification but who wish to explore some field of special interest under the guidance of qualified instructors. Valparaiso University welcomes them into its Evening Division as special students, provided they are graduates of high schools and are qualified to carry successfully the courses of their choice. 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**

1. Students who have not matriculated in the undergraduate or graduate program and who have never attended Valparaiso University must apply for admission as special students to the Director of the Evening Division at least one week prior to the official registration date.

2. Students admitted to the Evening Division who for some reason interrupted their program must apply for re-admission to the Director of the Evening Division.

3. Students who plan to complete requirements for a degree from Valparaiso University and students who plan to complete only the requirements for teacher certification must file applications for admission with the Director of Admissions of the University.

**Registration in the Evening Division**

1. 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 catalogue. Any day student who registers for a given semester in day and Evening Division classes will be considered to be a day student and will be charged the regular charges applicable to a day student.

2. Students admitted to the graduate program register on the regular registration form at a time designated for registration in the Evening Division.
3. Evening Division students other than regular undergraduate and graduate students and adult education students register on the regular registration form at a time designated for registration in the Evening Division.

4. 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".

For further information write to: Director of the Evening Division.

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.

ACCREDITATION

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 graduate programs have been formally approved by the Indiana State Department of Public Instruction for the training of teachers and the programs meet the requirements for certification in most other states.

ADMISSION REQUIREMENTS

An applicant to the Graduate Division must be a graduate of an accredited college or university with a standing of at least 1.5 (C=1.00) in all work attempted.* Official transcripts of all undergraduate and previous graduate work and a completed form for admission (available

*Seniors wishing admission to the Graduate Division: A senior in Valparaiso University who has a standing of at least 2.00 in all his work and a standing of at least 2.00 in all the work taken in his major field, and who needs not more than six semester hours of credit to meet the requirements for his baccalaureate degree, may be granted provisional admission to the graduate program. A student who has been granted such admission will be permitted to enroll for not more than six semester hours of courses designated for graduate credit and not more than a total of twelve 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.
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 Graduate Council. 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 1.8 (B=2.00). Application for Candidacy should be filed before the student has completed half of his graduate work. The student must file a tentative program of study which has been approved by his 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**

The program leading to the degree of Master of Arts in Liberal Studies 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 ten hours of work 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 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. The student will be able to adjust his program within the field of concentration and the electives so as to strengthen his subject matter competence and, if he desires, to add to his professional training in education.

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

**Requirements For The Degree—Master of Arts in Liberal Studies**

To be eligible for the 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 not more than 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 open only to graduate students (numbered 300 or higher). These courses must be taken at Valparaiso University.

PROGRAM FOR MASTER OF ARTS
IN TEACHING

This program, authorized for the first time as of the school year 1968-1969, is for certified elementary teachers. To be eligible for this degree (M.A.T.), students must complete at least 33 semester credits, distributed as follows.

Requirements For The Degree—M. A. T.

Basic Program for Certified Elementary Teachers

Internship—Education 202 .......................... 4 semester credits

Foundations of Education—Education 305, 310, 317, 320, 330, or 335 (Select two) .......................... 6 semester credits

Methods—Advanced Techniques .......................... 5 semester credits

   a. Education 220 or 327 (3)
   b. Education 200, 213, 283, or 284 (2)

Academic Concentration:

Any two subject matter fields appropriate to Elementary Education with a minimum of nine hours in each field and including two 300-courses in each field ................ 18 semester credits

Total minimum requirement = 33 semester credits
Minimum 300 Courses = 15 semester credits

REGULATIONS OF THE GRADUATE DIVISION FOR
THE DEGREES M.A.L.S. AND M.A.T.

No thesis is required, but a term paper is a regular part of graduate courses.

Students must maintain a grade point average of 1.8 (B=2.00) in all graduate work undertaken at Valparaiso University. Graduate credit may be received for A, B, and C grades, but not more than six semester hours of C work may be counted toward the degree. All grades received at Valparaiso University are counted in computing a student’s grade point average.

Not more than fifteen semester hours of work for graduate credit may be carried in any one semester, nor more than eight semester hours of credit in any summer session of eight weeks. 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 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 an F. 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 F after the end of the seventh week of the semester or after the fourth week of an eight week summer session.

**INDEPENDENT STUDY**

With the permission of the chairman 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 has satisfactorily completed at least twelve semester hours of his approved Master of Arts program.

A student’s first independent study project will be recorded as course number 390 (cr. 1-3) of the department concerned. His second will be recorded as course number 391 (cr. 1-2), and his third as course number 392 (cr. 1).

No student may register for an independent study project during the final summer session of his 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 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 Degree of Master of Arts from Valparaiso University, a student must make formal application to the Director of Graduate Division within the first week of the term in which he expects to be graduated. He must give evidence that he has 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 85) 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 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 in education; five or six in related course work are to be selected with the advice of the education adviser, and are to be approved by him.

All students working toward a teaching certificate should consult the Chairman of the Department of Education, as well as their academic adviser, in planning their programs.

Effective for students entering as of the academic year 1968-1969: graduate students desiring the recommendation of the Department of Education for teacher certification must have completed at least one graduate course in education at Valparaiso University.

GRADUATE COURSES

Details about graduate and undergraduate-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 to 299 are for undergraduate and graduate credit. All courses numbered 300 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.

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

For further information write to
DIRECTOR OF GRADUATE DIVISION
VALPARAISO UNIVERSITY
VALPARAISO, INDIANA 46383

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 entire time during the academic year following his 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 the following aid to Church Workers:

1. To the faculty of each high school or junior college operated by The Lutheran Church-Missouri Synod is granted one full tuition scholarship. The candidate must be recommended by the principal.

2. A teacher in a parochial elementary school operated by The Lutheran Church-Missouri Synod will be granted a half tuition scholarship.

3. Any clergyman in the full time service of the Lutheran church will be granted a half tuition scholarship.

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.
administrative procedure
Valparaiso University admits qualified student applicants without regard to race, sex, creed, color, or national origin.

Admission to Valparaiso University is based on several factors: the applicant's academic record, character, personality, and interest in and evidence of ability to do college work.

To be considered for admission, an applicant must be a graduate of an approved secondary school or possess a state high school equivalency certificate. Graduates of non-approved secondary schools may also be permitted to enter if their scores on the required entrance examination clearly demonstrate their aptitude for college level studies.

To assist the Director of Admissions in weighing admission factors and in arriving at fair decisions, the University requires that all candidates for admission to the freshman class take the Scholastic Aptitude Test (morning program) of the College Entrance Examination Board before entering the University. This test will not only provide the Director of Admissions with essential information, but will make it possible for the freshman student's faculty adviser to have advance information on his general scholastic aptitude.

All applications for admission to the undergraduate programs of Valparaiso University should be made to the Director of Admissions. Applications for admission to the graduate program should be directed to the Director of Graduate Division, and applications for the School of Law should be addressed to the Dean of the School of Law. This may be done at any time, but preferably well in advance of the semester in which admission is desired.

Each application for admission must be accompanied by an Application Fee of $10.00. No other fee is required by the University at the time of application. This fee is not refundable.

Admission of 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. Advanced standing is the record of courses and credits accepted by Valparaiso University from another institution (for transfer students as well as for others). 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. Applications will not be accepted after this date. Exceptions to this regulation may be made only for the summer sessions. 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. With regard to advanced credit, courses with grades of "D" will be accepted as credit for graduation, provided the cumulative grade-point average of the work from each institution attended is equivalent to 1.5 or better on a 3.0 system (C=1.0).

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 "C" average (1.00). The University reserves the right to reject any applicant for admission by transfer whose academic record is unsatisfactory.

Credits earned in secretarial work (typing and shorthand) are not applicable toward any degree granted by Valparaiso University.

Students who enter with advanced standing because of credits transferred from another school must earn at Valparaiso University 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 66), financial aid (page 71), residence requirement (page 104), and graduation (page 103).

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 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 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 BY EXAMINATION—CEEB PROGRAMS

Valparaiso University is an active participant in the Advanced Placement Program and has endorsed the College-Level Examination Program of the College Entrance Examination Board.
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" (High Honor) or "4" (Honor). A score of "3" (Good) will be referred to the department chairman concerned for evaluation and recommendation for credit or placement. Further information on the College-Level Examination Program may be obtained from the Director of Admissions.

ADMISSION AS A SPECIAL STUDENT IN ANY UNDERGRADUATE CURRICULUM

Students not candidates for a degree may be admitted to the University as special or unclassified students on the approval of the appropriate Faculty or University Senate Standing Committee.

An applicant who is not admitted as a regularly classified student working toward a baccalaureate degree in the College of Arts and Sciences, the College of Business Administration, the College of Nursing, or the College of Engineering 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 academic or other reasons.

For the definition of special and unclassified students in the School of Law see pages 287 and 289 in the Law School Section of this bulletin.

REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES

Admission to the freshman class of the College of Arts and Sciences may be granted to graduates of approved secondary schools who present a minimum of 15 units of high school work, and who have furnished the Director of Admissions with satisfactory College Entrance Examination Board scores.

Students planning their high school curricula must include a minimum of 3 units in English, and in addition are urged to include 2 units in mathematics (algebra, geometry), 2 units in social studies, 2 units in laboratory sciences, and 2 units in a foreign language.

REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF BUSINESS ADMINISTRATION

The requirements for admission to the College of Business Administration are essentially the same as those demanded of applicants for admission to the College of Arts and Sciences.

REQUIREMENTS FOR ADMISSION TO 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.
Requirements for Admission to the College of Engineering

Applicants for admission to the College of Engineering may be approved by meeting the above described requirements of the College of Arts and Sciences and submitting a minimum of three and one-half years of formal mathematics* and one year of either chemistry or physics with regular laboratory work. These requirements are minimum and the applicant is encouraged to take four years of formal mathematics and both chemistry and physics.

Requirements for Admission to the College of Nursing

The requirements for admission to the College of Nursing are essentially the same as those demanded of applicants for admission to the College of Arts and Sciences.

Requirements for Admission to the School of Law

Applications for admission to the School of Law should be addressed to the Dean of the School of Law, Valparaiso University, Valparaiso, Indiana. A personal interview with the Dean of the School of Law may be required.

No applicant will be admitted to the School of Law 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.

Applications should be received by April 1 of the year in which the applicant desires admission.

For detailed requirements for admission to the School of Law, see page 285.

Requirements for Admission to the Graduate Program

For detailed requirements for admission to the graduate program, see page 84.

General Requirements for Readmission of Former Students to Undergraduate and Professional Programs

A student who has fully matriculated at Valparaiso University and who, for some reason (except those students who are enrolled in the Youth-Leadership Training Program and the Deaconess Training Program—the students usually spend one year in in-service training) has interrupted his 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 three weeks 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 has been out of school for more than one school year before action will be taken on his request to be readmitted.

*Included in the 3½ units should be 1½ units of algebra, 1 unit of geometry, and ½ unit of trigonometry. Business, general, or shop mathematics may not be counted.
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.

**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.

**Course Prerequisites**—Students will be held responsible for meeting the prerequisites of all courses for which they enroll. In unusual cases, the Educational Processes Policy 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 4 and 5, with the signature of the student's adviser and the written approval of the department chairman 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**—An undergraduate student who has declared a major may elect to take one quality graded course (graded A, B, C, D, F) 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 at the time of registration (drop/add period) and may not be changed subsequently.
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 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 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 adviser and the chairman 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.

**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 normal 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:

College of Arts and Sciences:
In all departments except as required in special authorized curricula (e.g., the B.M.E. program) and for students preparing for licenses in elementary- and secondary-school teaching. Maximum, 17 Credits
Students preparing for licenses in elementary- and secondary-school teaching. Maximum, 18 Credits

College of Business Administration. Maximum, 17 Credits

College of Engineering, except as required in certain block schedules. Maximum, 20 Credits

College of Nursing. Maximum, 17 Credits

School of Law. Maximum, 16 Credits

Students who maintained a standing of two (2.0) during the previous semester may register for extra work, provided their formal petitions for such work are granted by the Educational Processes Policy 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 Business Office 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 every case 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 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 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 F to the Registrar.

ADVANCED STANDING

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 the cumulative grade-point average of the work taken from each institution is equivalent to 1.5 or better on a 3.0 system (C=1.0).
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.

SPECIAL EXAMINATIONS—Special examinations are given only to students who for adequate reasons have not been able to be present at regular examinations or written tests. The privilege of special examination is granted by the adviser on recommendation of the instructor. Formal requests for special examinations must be obtained from the office of the registrar. In no case may a student remove a grade F by special examination. The subject must be repeated for credit.

SCHOLASTIC PROBATION

In the College of Arts and Sciences, the College of Business Administration, the College of Engineering, and the College of Nursing, a student will be placed on scholastic probation (1) if in either of his first two semesters, taken anywhere, his grade-point average falls below 0.65; (2) if in any semester beyond the second, taken anywhere, his grade-point average falls below 0.75; or, (3) if his cumulative grade-point average falls below the minimum cumulative grade-point average indicated in the following table:

<table>
<thead>
<tr>
<th>NUMBER OF CREDIT HOURS PREVIOUSLY UNDERTAKEN</th>
<th>MINIMUM CUMULATIVE GRADE-POINT AVERAGE REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arts and Sciences</strong></td>
<td><strong>Business Administration,</strong></td>
</tr>
<tr>
<td>1-15</td>
<td>1-16</td>
</tr>
<tr>
<td>16-30</td>
<td>17-32</td>
</tr>
<tr>
<td>31-46</td>
<td>33-48</td>
</tr>
<tr>
<td>47-62</td>
<td>49-64</td>
</tr>
<tr>
<td>63-78</td>
<td>65-80</td>
</tr>
<tr>
<td>79-up</td>
<td>81-up</td>
</tr>
</tbody>
</table>

The number of credit hours previously undertaken includes all credit hours undertaken by the student at Valparaiso University or elsewhere for which the student has received a grade other than W. The student's cumulative grade-point average is based upon all credit hours undertaken at Valparaiso University for which the student has received a grade other
than S, U, W, and I (not including credit hours in ensemble music, for which no quality points are given). In cases of students who have transferred work from one school or college to another within the University, only those credit hours and quality points transferred to apply toward the new degree will be counted in computing the cumulative grade-point average.

A student will be removed from scholastic probation when his cumulative grade-point average is equal to or above that required in the above table.

Scholastic probation is intended to serve as a warning to the student that he may be denied the privilege of continuing his studies at the University unless he succeeds in improving the quality of his academic work to the satisfaction of the faculty during the next semester.

For regulations concerning scholastic probation in the School of Law see page 290 of this bulletin.

**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 classes unless his 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 instructor the reason for his 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; valued at three (3) quality points for each credit.
B. Good; valued at two (2) quality points for each credit.
C. Satisfactory; valued at one (1) quality point for each credit.
D. Less than satisfactory; indicates some deficiency and gives no quality points, but gives credit for graduation.
F. Failure; valued at 0 credits and 0 quality points.
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 passing the course but who has failed to complete a segment of the assigned work of the course because of circumstances beyond his 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 an F. 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.

*Credits and grades earned in ensemble music give no quality points.
Any student withdrawing from a subject without first securing the official permission of his adviser will receive a grade of F in that subject for the semester.

Only in exceptional cases, such as prolonged or serious illness, will the Educational Processes Policy Committee permit a student to withdraw from a course without a grade of F after the deadline for withdrawing from a course with the grade of W.

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 C, 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 certain courses which are so designated in the course descriptions contained in the University Bulletin. (See page 97 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 the ratio of his total number of quality points to his total number of hours attempted in all his work at Valparaiso University. Thus, a student who makes an average mark of C throughout a course of 126 semester hours will have 126 quality points, 126 credits, and a standing of one (1.0). An average mark of B will give the student 252 quality points, 126 credits, and a standing of two (2.0). When a semester’s work is to be considered “standing” is understood to be the ratio of the number of quality points gained to the number of credits scheduled.

Credits and grades earned in ensemble music give no quality points and are not counted in computing the student’s standing.

SEMESTER REPORTS—Reports are sent to parents and guardians of students in the University at the end of each semester.

CLASSIFICATION

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

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

In the College of Engineering, a student must have 24 semester credits and 24 quality points to be classified as a sophomore; 60 semester credits
and 60 quality points to be classified as a junior; 94 semester credits and 94 quality points to be classified as a senior.

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

A student in the School of Law shall have completed 30 hours and 30 quality points to be classified as a second year student, and 60 hours and 60 quality points 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; (c) undergraduate-graduate courses, numbered 200-299; and, (d) graduate courses, numbered 300-399.

**GRADUATION**

**RESPONSIBILITY OF STUDENT**—Every candidate for a degree is personally responsible for meeting all requirements for graduation. No University official can relieve him of this responsibility.

A student in the undergraduate program may fulfill requirements for graduation under any catalogue during his years of attendance, beginning with the year he 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 catalogue requirements covered by his previous years of attendance, but must fulfill for graduation all the requirements and provisions beginning with the catalogue of the year in which he 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.

No student will be given two degrees at the same Commencement from the same college. In order to receive a second degree, a student must earn at least thirty semester credits and thirty 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 84 for specific information.

**DEGREES**—Upon the recommendation of the Faculty of the College of Arts and Sciences, the University confers the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Home Economics, Bachelor of Science in Physical Education, Bachelor of Science in Education, Bachelor of Music, and Bachelor of Music Education. Upon the recommendation of the Faculty of the College of Business Administration, the University

*Three or more years in the School of Law.
confers the degree of Bachelor of Science in Business Administration. Upon the recommendation of the Faculty of the College of Engineering, the University confers the degrees of Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering. Upon the recommendation of the Faculty of the College of Nursing, the University confers the degree of Bachelor of Science in Nursing. Upon the recommendation of the Faculty of the School of Law, the University confers the degree of Juris Doctor. Upon the recommendation of the Graduate Council and the Graduate Faculty, the University confers the degrees of Master of Arts in Liberal Studies and Master of Arts in Teaching. 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.

**Credit and Quality Point Requirements**—Candidates for graduation with the baccalaureate degree must have a standing of one (1.0) in all their work at Valparaiso University (not including ensemble music, for which no quality points are given). In addition, candidates must have a standing of one (1.0) in their major field, or fields, based upon their work at Valparaiso University. In the computation of these standings grades of D and F are included. Candidates for the master’s degree, see page 85.

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>Bachelor of Arts (except in combined curricula)</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Science (except in combined curricula)</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Science in Business Administration</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Science in Education</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Science in Home Economics</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Physical Education</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Music</td>
<td>128-134</td>
</tr>
<tr>
<td>Bachelor of Music Education</td>
<td>134-138</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>136</td>
</tr>
<tr>
<td>Juris Doctor</td>
<td>90</td>
</tr>
<tr>
<td>Master of Arts in Liberal Studies</td>
<td>30</td>
</tr>
<tr>
<td>Master of Arts in Teaching</td>
<td>33</td>
</tr>
</tbody>
</table>

**Residence Requirements**—Candidates for all baccalaureate degrees must spend at least the last two semesters in residence. They must also earn at Valparaiso University at least half the number of credit hours required for their first majors.
The last year of work is to be construed as a year of not less than 30 semester hours in the College of Arts and Sciences, the College of Business Administration, and the College of Nursing; 32 semester hours in the College of Engineering; and 24 semester hours in the School of Law.

Ordinarily, credit is not given 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 dean, and the Committee on Academic and Professional Standards.

APPLICATION FOR DEGREES—A student who wishes to receive his baccalaureate degree at the end of the Fall Semester 1971-1972 must make formal application for his degree on a form provided for this purpose by the registrar’s office not later than May 1, 1971. A student who wishes to receive his degree at the end of the Spring Semester 1971-1972, or the Summer Session of 1972, must make formal application for his degree on a form provided for this purpose by the registrar’s office not later than November 1, 1971. Applications will not be accepted after these dates except by approval of the Educational Processes Policy Committee.

A summer session student not enrolled in the previous academic year who expects to receive his baccalaureate degree at the end of the Summer Session of 1972 must make application for a degree at the beginning of that summer session.

PRESENCE AT COMMENCEMENT—A candidate must be present at commencement in order to receive his degree. Degrees are not conferred in absentia, except on special permission from the President.

A student who completes his work toward a degree at the end of the fall semester or of the summer session may be granted his degree at that time.

BACCALAUREATE DEGREES WITH DISTINCTION—1. Graduation "With High Distinction." A student who has been in attendance at Valparaiso University at least three years and who has maintained a standing of 2.6 in his work at this institution will be graduated "With High Distinction." A student who has been in attendance for only two years must maintain a standing of 2.8 to be eligible for this honor.

2. Graduation "With Distinction." A student who has been in attendance at least three years and who has maintained a standing of 2.4 in his 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 2.6 to be eligible for this honor.

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 2.5 in any semester will be awarded honors, provided
that he received no grades of I or U at the official end of the semester concerned, and that he 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 12 hours in the School of Law, for at least 16 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 (baccalaureate degrees) are announced at Commencement and are based on the work of the last two semesters.

**TRANSCRIPTS OF ACADEMIC RECORDS**

In order to keep the student's academic record confidential, official transcripts are released only upon his written request. At the same time, however, the University Registrar may make exceptions when, in his judgment, it is in the best interest of the student or former student.

**RESERVATION OF RIGHT TO AMEND RULES AND REGULATIONS**

Every student upon admission to Valparaiso University and any of its departments, colleges, or schools, agrees to abide by their respective rules and regulations, and any amendments, new rules, or repeals of rules adopted during such student's period of attendance.

The University, its colleges, and schools reserve the right to adopt new rules and regulations, repeal or amend existing rules and regulations at any time.
college of arts and sciences
THE COLLEGE OF ARTS AND SCIENCES

OBJECTIVES OF THE COLLEGE

A. General Education Program

The College of Arts and Sciences 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 studied as valuable in themselves in addition to their being important in their application to other fields.

Courses in the natural sciences acquaint the student with some of the methods and results of man’s efforts to understand and shape his natural environment as well as himself, 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 division of the humanities deals with man’s values and perspectives as they are expressed in his intellectual and artistic works. Especially important in this division is the sequence of courses in theology 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 men. By requiring a variety of courses in these major branches of learning, the general education program gives the student many occasions in which he may discover his interests and competencies. Thus informed he may make an intelligent choice of a field 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.

B. The Fields of Concentration

The College of Arts and Sciences 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 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 OF THE COLLEGE OF ARTS AND SCIENCES

INTRODUCTION

The College of Arts and Sciences of Valparaiso University grants the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Science in Home Economics, Bachelor of Science in Physical Education, Bachelor of Science in Education, Bachelor of Music, and Bachelor of Music Education. In each case the degree requirements consist of general education
requirements, 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 113-115). For those degrees which are similar to the Bachelor of Arts degree, only deviations from the requirements of the Bachelor of Arts degree are given. The following table is a summary for the varied emphases of the requirements for all degrees in the College:

<table>
<thead>
<tr>
<th>Type of Requirement</th>
<th>B.A.</th>
<th>B.S.</th>
<th>B.S. in H.E.</th>
<th>B.S. in P.E.</th>
<th>B.M.</th>
<th>B.M.E.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
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<td></td>
<td></td>
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<tr>
<td>Religion</td>
<td>9</td>
<td>9</td>
<td>9</td>
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<td>9</td>
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<tr>
<td>Language and Communications</td>
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<tr>
<td>English</td>
<td>4</td>
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<td>Foreign Language</td>
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<td>Speech</td>
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<tr>
<td>Humanities and Fine Arts</td>
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<td></td>
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<tr>
<td>Literary Studies</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</tr>
<tr>
<td>History or Philosophy</td>
<td>3</td>
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<td>3</td>
<td>3</td>
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<tr>
<td>Literature or Fine Arts</td>
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<td>3-4</td>
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<tr>
<td>Behavioral and Social Sciences</td>
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<td>9</td>
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<td>9</td>
<td>15*</td>
<td>6</td>
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<tr>
<td>Natural Sciences and Mathematics</td>
<td>12</td>
<td>12</td>
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<td>General Studies</td>
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<td>3</td>
<td>3*</td>
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<td>Physical Education</td>
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<td>2</td>
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<td>2</td>
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<td>Sub-total for General Education</td>
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<td>53-57</td>
<td>52-53</td>
<td>49</td>
<td>79</td>
<td>43</td>
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<tr>
<td>Concentration</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>32</td>
<td>70-91</td>
</tr>
<tr>
<td>Electives (for 1971-1972 graduates)</td>
<td>29</td>
<td>29-33</td>
<td>33-34</td>
<td>37</td>
<td>15</td>
<td>0-15</td>
</tr>
<tr>
<td>Total (for 1971-1972 graduates)</td>
<td>126</td>
<td>126</td>
<td>126</td>
<td>126</td>
<td>126</td>
<td>128-134</td>
</tr>
<tr>
<td>Total (for 1972-1973 graduates)</td>
<td>124</td>
<td>124</td>
<td>124</td>
<td>124</td>
<td>124</td>
<td>128-134</td>
</tr>
</tbody>
</table>

*For the Bachelor of Science in Education and the Bachelor of Music Education degrees, this tabulation assumes that the general studies course will be taken in the social science area. Otherwise the social science requirement must be increased by 3 credits. Application of the general studies course to another area in some cases will result in a reduction by three credits in that area.

**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 courses numbered below 10 toward a degree in the College of Arts and Sciences. Non-music majors are limited to 16 credits in applied music, of which no more than four may be in ensemble music.

The following restrictions apply to the use of credits from professional
colleges in the University toward a degree in the College of Arts and Sciences:

1. College of Business Administration. A maximum of 6 credits (which are normally in Accounting). All courses in Economics are excluded from this restriction. Special provisions apply to students majoring in Economics and in Home Economics. See page 142 and page 180 for details concerning these special provisions.

2. College of Engineering. A maximum of 12 credits (except in the combined Liberal Arts-Engineering Program).

3. College of Nursing. A maximum of 8 credits.

4. School of Law. A maximum of 10 credits.

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. Ordinarily students already enrolled in the College of Arts and Sciences are not eligible to register for courses in the professional colleges.

REGULATIONS CONCERNING GENERAL EDUCATION REQUIREMENTS

1. A student may not use a 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).

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 may be used in meeting general education requirements (with the exception of a major in the departments of English, Foreign Languages, Physical Education, or Theology).

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

A. General Education Requirements:

1. Religion. Three courses (9 credits) in the Department of Theology.

2. Language and Communications. At least 12 credits including the following:
   a. English. One course (4 credits) in Exposition and Argument.
   b. Foreign Language. Eight college credits in one 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.)

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. See page 117 for further details concerning suitable courses in English, Foreign Languages, Art, Music, and Speech and Drama.)
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, Government, History*, Psychology*, and Sociology. *A student may not apply more than one course in History or one in Psychology toward this requirement.

5. Natural Sciences and Mathematics. Three courses (12 credits) from at least two of the following fields: Biology, Chemistry, Mathematics, Physical Geography*, Physics, and Psychology (with laboratory). *Courses in Physical Geography are listed under the Department of Geography.

6. General Studies. One upper-class (i.e., numbered 100 or above) liberal arts course (3 credits) from outside the student's major field. Courses which may be applied to this requirement are listed under the three liberal arts divisions as well as under individual liberal arts departments.

7. Physical Education. Two single credit courses (2 credits).

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, Government, Greek, History, Latin, Mathematics, Philosophy, Physics, Psychology, Social Work, Sociology, Spanish, Speech and Drama, and Theology. Of these 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 department of the same name. In addition certain inter-departmental and interdisciplinary programs are listed on pages 124 and 126.

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

a. He may complete an individual plan of study of between 40 and 45 credits in courses chosen from his major and related fields. The plan of study is subject to the approval of the chairman of the student's major department.

b. He may complete a second academic major (or a teaching minor). A second major may be selected from the list given above or from Home Economics or Physical Education. A student with an inter-departmental or interdisciplinary major should consult pages 124 and 126 for information concerning implementation of this requirement.
C. Requirements Concerning Total Credits.

1. For a student graduating in the school-year, 1971-1972, sufficient electives must be completed to bring the total credits to 126, of which no more than 48 may be in any one major field.

2. For a student graduating in the school-year 1972-1973, sufficient electives must be completed to bring the total credits to 124, of which no more than 48 may be in any one major field.

Requirements for the Bachelor of Science Degree

The requirements for the Bachelor of Science degree are identical with those of the Bachelor of Arts degree (See pages 113 to 115) except for the following:

1. The Foreign Language Requirement. A student must earn credit for a Second Semester course in a foreign language.

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 or two minimum science majors in meeting the concentration requirements. The following academic majors may be used: Biology, Chemistry, Geology, Mathematics, Physics, Psychology. (Of these, Geology is offered in a special program of the Department of Geography. The others are offered by the departments of the same name.)

Requirements of the Bachelor of Music Education Degree

The College of Arts and Sciences offers a special curriculum leading to the degree of Bachelor of Music Education. The requirements for this degree are given in the announcements of the Department of Music on page 189 of this bulletin.

Requirements of the Bachelor of Music Degree

The College of Arts and Sciences offers a special curriculum leading to the degree of Bachelor of Music. The requirements for this degree are given in the announcements of the Department of Music on page 189 of this bulletin.

Requirements for the Bachelor of Science in Home Economics Degree

The requirements for the Bachelor of Science in Home Economics degree are identical with those of the Bachelor of Arts degree (See pages 113 to 115) except for the following:

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

2. The Concentration Requirements. The academic major must be in Home Economics. See page 180 for specific requirements of this major.
Requirements for the Bachelor of Science in Physical Education Degree

The requirements for the Bachelor of Science in Physical Education degree are identical with those of the Bachelor of Arts degree (See pages 113 to 115) except for the following:

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

2. The Concentration Requirement. The academic major must be in Physical Education. See page 200 for specific requirements of this major.

Requirements of the Bachelor of Science in Education Degree

The College of Arts and Sciences offers a special curriculum in elementary education which leads to the degree of Bachelor of Science in Education. This curriculum is intended for students planning to become teachers in elementary schools. The requirements for this degree are given in the announcement of the Department of Education on page 145 of this bulletin.

The Liberal Arts Areas

Introduction

Although certain departments in the College of Arts and Sciences are engaged largely in professional and pre-professional programs, the majority of departments are actively engaged in the liberal arts section of the college. These departments are sometimes called the liberal arts departments and each is listed under one or more of the liberal arts divisions which are described below.

The general studies requirement of the general education program concerns upper-class courses which are offered by one or more of the liberal arts departments. Furthermore, under the course intensification plan a liberal arts department may schedule a special lecture, discussion, or laboratory section of a course in which each student who registers is assigned additional work for which an extra credit is earned. Enrollment is handled by normal registration procedures.

For purposes of organizing the curriculum, the liberal arts are classified into the Division of Humanities and Fine Arts, The Division of Behavioral and Social Sciences, and the Division of Natural Sciences and Mathematics.

This pattern is included in the statement of general education requirements for the Bachelor of Arts degree. Furthermore, it is useful as a basis for inter-departmental cooperation in offering courses and in academic advising (see page 52 on the Advising Program). Further details concerning each of these divisions are given in the classifications which follow.

The Division of the Humanities and Fine Arts

The Departments of Art, English, Foreign Language, History, Music, Philosophy, Speech and Drama, and Theology constitute the Division of Humanities and Fine Arts of the College.

Divisional advisers who are selected from these departments are assigned to those undeclared freshman and sophomore students who indicate a preference for this area of the liberal arts.
All students interested in this area should consider the following guidelines for strengthening their programs beyond minimum requirements:

1. Level III or IV proficiency in a foreign language is recommended. A student who is planning to do graduate work should consult his department for further guidance concerning a foreign language.
2. One year of Western Civilization or a year of History of Philosophy is recommended.
3. A course in literature or fine arts outside the student's major field is recommended.
4. A course in non-western studies is recommended.
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 and Fine Arts requirement: Intermediate literature courses in The Department of English. Advanced literature courses taught in one of the foreign languages. Courses on literature in translation taught by The Department of Foreign Languages. Historical critical courses in Art, Drama, or Music.

The following courses are offered by this division in fulfillment of the general studies requirement of the general education program.

**Fine Arts 100-109 General Studies in Fine Arts. Cr. 3.** An integrative lecture topic or studio experience is presented. Open only to juniors and seniors who are not majoring in the fine arts.

**Humanities 100-109 General Studies in Humanities. Cr. 3.** An integrative topic is presented. Open only to juniors and seniors who are not majoring in the humanities.

The following courses are offered by this area in support of major programs in the humanities and fine arts.

**Fine Arts 150-159 Integrative Topics in the Fine Arts. Cr. 3.** Offered as a course or seminar in which a topic or problem of an integrative nature is considered. Open to senior majors in the fine arts.

**Humanities 150-159 Integrative Topics in the Humanities. Cr. 3.** Offered as a course or seminar in which a topic or problem of an integrative nature is considered. Open to senior majors in the humanities.

**Division of The Behavioral and Social Sciences**

The Departments of Economics, Geography, Government, History, Psychology, and Sociology constitute the Behavioral and Social Sciences Area of the College. General advisers who are selected from these departments are assigned to those undeclared freshman and sophomore students who indicate a preference for this area of the liberal arts.

A freshman student who plans to major in a social science and must choose either mathematics or a foreign language for his program should
give priority to mathematics. Students interested in graduate study should consult their major departments for further guidance concerning foreign language work.

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

1. A course dealing with social ethics is recommended in partial fulfillment of the religion requirement.
2. A year of Western Civilization or History of Philosophy is recommended.
3. A course in mathematics and one in statistics is recommended.
4. A course in non-western studies is recommended.
5. A senior integrative course or seminar is recommended in partial fulfillment of the concentration requirements.

The following courses are offered by this liberal arts area in fulfillment of the general studies requirement of the general education program.

Social Science 100-109 General Studies in Social Science. Cr. 3. An integrative topic is presented. Open only to juniors and seniors who are not majoring in the social sciences.

The following courses are offered by this liberal arts area in support of major program in the social sciences:

Social Science 150-159 Integrative Topics in the Social Sciences. Cr. 3. Offered as a course or seminar in which a topic or problem of an integrative nature is considered. Open to seniors who are majoring in a social science.

The Division of the Natural Sciences and Mathematics

The Departments of Biology, Chemistry, Mathematics, Physics, and Psychology constitute the Natural Science Division of the College. 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 129 for details). Divisional advisers who are selected from these departments are assigned to those undeclared freshman and sophomore students who indicate a preference for this division.

A freshman student who plans to major in a science and must choose either mathematics or a foreign language for his program 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 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 115.

Finally, a senior integrative science course or seminar is recommended in partial fulfillment of concentration requirements.
The following courses are offered by this liberal arts area in fulfillment of the general studies requirement of the general education program:

Science 100-109 General Studies in Science. Cr. 3. An integrative topic is presented. Open only to juniors and seniors who are not majoring in the sciences, mathematics, engineering, or nursing.

The following courses are offered by this area in support of major programs in the natural sciences and mathematics:

Science 150-159 Integrative Topics in Science. Cr. 3. Offered as a course or seminar in which a topic or problem of an integrative nature is considered. Open to senior majors in science or mathematics.

THE PROFESSIONAL AND PRE-PROFESSIONAL AREAS

The College of Arts and Sciences offers degrees especially designed for elementary teaching, the teaching of music, the performance of music, work in home economics, and work in physical education. In addition, students may earn a major in Social Work for The Bachelor of Arts degree and prepare for secondary teaching under a variety of majors for the Bachelor of Arts and Bachelor of Science degrees. Finally, The Deaconess Program, The Youth Leadership Program, the pre-legal program, and the pre-medical arts program are special programs which a student may complete while majoring in a liberal arts area.

Students interested in any of these professional or pre-professional areas should declare the appropriate major before entering the sophomore year.

TEACHER-EDUCATION PROGRAM

Valparaiso University prepares applicants for the following types of teaching certificates:

1. General Elementary Teacher Certificate
2. Secondary Teacher Certificates in the subject matter fields of:
   a. Arts and Crafts—Area Major, Major, Minor.
   b. Biology—Major, Minor.
   c. Chemistry—Major, Minor.
   d. English—Major, Minor.
   e. German—Major, Minor.
   f. French—Major, Minor.
   g. Spanish—Major, Minor.
   h. Latin—Major, Minor.
   i. General Home Economics—Major, Minor.
   j. Mathematics—Major, Minor.
   k. Music—Area Major, Major (Vocal or Instrumental), Minor (Vocal or Instrumental).
   l. Physical Education—Minor.
   m. Physical Education and Health—Major.
   n. Physics—Major, Minor.
   o. Psychology—Minor.
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 to medical school, dental school, or a school of medical technology by entering one of the pre-medical arts programs of the University. A special academic adviser is assigned to students in these programs. A student preparing himself for the study of one of the medical arts must have his schedule approved at the beginning of each semester by his medical arts adviser.

PREPARATION FOR THE STUDY OF MEDICINE OR DENTISTRY

Although most schools of medicine or dentistry admit some students on the basis of three years of college work, candidates with bachelors degrees are usually given preference. A student planning to enter a school of medicine or dentistry is therefore urged to complete the requirements for a bachelor’s degree. However, students who wish to enter medicine or dental school on the basis of three years of college work may elect to fulfill graduation requirements by the Combined Liberal Arts-Medical Arts Program given below. In any case, a student should include among his courses those courses required by the schools of medicine or dentistry to which he plans to apply for admission.

PREPARATION FOR THE STUDY OF MEDICAL TECHNOLOGY

Approved schools of medical technology require the completion of three years of college work, including specified courses in the natural sciences for admission. Students who wish to enter a school of medical technology on the basis of three years of college work may elect to fulfill graduation requirements by the Combined Liberal Arts-Medical Arts Program given below. Many students, however, find it to their advantage to earn a bachelor’s degree before beginning the study of medical technology. The University has informal associations with the Fort Wayne Lutheran Hospital Laboratory and the School of Medical Technology at Cleveland Lutheran Hospital.

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, or medical technology.

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

1. He must spend his junior year in residence at Valparaiso University.
2. He 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 must complete an academic major. For the Bachelor of Science degree this major must consist of at least 32 credits in one of the science fields.

4. If he completes his college work in the school-year, 1971-1972, he must offer a total of at least 92 semester credits of college work. If he completes his college work after the school-year 1971-1972, he must offer at least 90 semester credits of college work.

5. He must make application for graduation sixty days prior to the date of graduation and present to the Registrar an official transcript of an additional year's satisfactory work at an approved school of medicine, dentistry, or medical technology. This work must cover at least two semesters from a school of medicine or dentistry or cover twelve month's work from a school of medical technology.

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 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 to earn 166 credit hours and to have a standing of at least one (1.0) in all his 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

The consensus of law deans and of attorneys at law is that a sound undergraduate education is the best preparation for professional law study. Although no specific major is required for admission to the School of Law, the following courses are strongly recommended to pre-law students:

Accounting Principles (Accounting 11 and 12)
Principles of Economics (Economics 71 and 72)
Advanced Composition (English 131)
Introduction to Political Science (Government 1)
The Government of the United States (Government 2)
The Field of Law (Government 10)
The Constitution of the United States (Government 206)
The History of the United States (History 30 and 31)
Ethics (Philosophy 123)
Logic and Analysis (Philosophy 3)
Fundamentals of Speech (Speech and Drama 40)

Pre-law students should consult with the Pre-Law adviser at the beginning of each semester concerning their course schedules. The attention of these students is particularly drawn to the courses especially given for pre-legal students, The Field of Law (Government 10).
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 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)
- Geography 51 and 52
- Introduction to Political Science (Government 1)
- Comparative Politics (Government 44)
- International Relations (Government 65 and 66)
- The Diplomacy of the United States (Government 111)
- American Foreign Policy (Government 112)
- Public Administration (Government 162)
- International Law (Government 230)
- Foreign Political Areas (Government 153, 154, 158)
- Western Civilization (History 1 and 2)
- The History of the United States (History 30 and 31)
- Introductory Sociology (Sociology 53)

Additional information will be found under the Department of Government on page 173.

For information concerning the Angus Ward Foreign Service Scholarship, see page 77.

DEACONESS TRAINING PROGRAM

Valparaiso University and the Lutheran Deaconess Association cooperate in the education of women as deaconesses for the Church.

The student who is accepted into this program must meet the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts with a major in religion. The program is under the direction of the Executive Director of the Deaconess Association.

Each student must fulfill certain courses in the Department of Theology as well as other departments. The student's minor is in such fields as: Psychology, Sociology, English, Social Work, German, History, Music, Philosophy, Greek. The minor field, as well as the entire curriculum, is approved by the Director of Education for each student.

A student in the program is assisted in the development of an understanding of the diaconate and the church through certain planned programs. One of the extra-curricular programs consists of a weekly series of speakers, panel discussions, etc., at Deaconess Hall on subjects relevant to the deaconess ministry. A deaconess student also develops her professional skill and understanding through participation in a planned field work program. Thirdly, each student receives the counsel and guidance of the Executive Director and the Staff Deaconess as well as other University personnel.
Deaconess students are expected to participate in University activities as part of their learning experience.

Finally, each deaconess student spends one year (between the Junior and Senior academic years) as an intern. The internship year is a structured period of experience in which the student serves but is also testing herself in, and developing, the skills required for functioning in the diaconate.

*YOUTH-LEADERSHIP TRAINING PROGRAM*

Valparaiso University offers a program designed to train youth leaders. The central objectives of the Training Program are to provide and organize specific courses and experiences for training in youth work on behalf of students personally committed to working with children or adolescents. Because full-time positions for trained youth workers are varied—particularly in the nature of credentials required and responsibilities the worker assumes—no one restricted pattern of training is required. Rather, students are encouraged to develop their own abilities, academic interests, and credentials through the design of the Training Program. In formulating the student's plan of study, care will be taken to provide a firm basis for graduate study.

In addition to fulfilling all requirements for the B.A. or B.S. degree, the student shall fulfill those of the Training Program. These include: (1) completion of course-work in areas directly relevant to youth work; (2) participation in para-curricular activities both on and off the campus; (3) youth group-work experience under capable guidance; and (4) the student's maintenance of close contact with the chairman of his major department and the director of the Training Program in order to outline, develop, and complete a training sequence which appreciates the student's own interests and abilities.

**PREPARATION FOR SEMINARY ENTRANCE**

Although Valparaiso 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 both 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 theology, others in philosophy, history, social sciences, classical languages, English, etc. 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.

*After the academic year 1971-1972, it will not be possible to enter this Program.*
INTRODUCTION  
Deviations in the basic distribution requirements of the general education program may be approved for groups or individual students in certain special programs. These programs will be administered by the Dean of the College after they have been approved. Further information may be obtained from the Dean of the College.

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

GENERAL STUDIES 100. Independent Group Study Project. Each sem. Cr. 1, 2, or 3. An independent group project is conducted on a topic selected by the group. Grading is limited to the use of S or W. Prerequisite: 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  
Valparaiso University has established a Black Studies Program. Consistent with the University's commitment to the Liberal Arts tradition, the special emphasis of this program will be 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 baccalaureate degree. During the school year, 1970-1971, special sections of English 1, 2, and 56 and Theology 1, 2, were 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 para-curricular and extra-curricular activities appropriate to the Black Experience.

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

SPECIALIZED PROGRAMS  
Inter-departmental majors and opportunities for individualized programs will be administered by the Dean of the College as they are approved. Further information may be obtained from the Dean of the College.
HONORS WORK

Honors Work is designed for students of exceptional ability who might benefit by earning some of the credits required for graduation through independent study rather than through regular course work. 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 his last two semesters and who has a standing of at least 2.0 in his major field as well as in all the college work he has undertaken may apply for admission to Honors Work with the consent of his major department.

A student making application for admission to Honors Work must present a plan for an independent-study project to be undertaken under the supervision of a member of his major department during the first semester of his senior year. The proposed project must have the approval of the student's major department.

With the approval of the departments concerned, a student may propose an independent-study project intended to integrate work in two or more fields (e.g., English literature and religion). A project of this kind will be supervised by the student's major department.

A student's first independent-study project will be recorded as course number 197 of his major department with the title "Honors Work in" his major department. A student's second independent-study project will be recorded as course number 198 of his major department with the same title.

A student who has been admitted to Honors Work must present the results of the independent-study project undertaken during the first semester of his senior year in an essay of not less than 5,000 words not later than the day before the beginning of the final examination period of that semester. Three copies of the essay must be presented. The essay will be judged by a committee consisting of two members selected by the student's major department and one member selected by the Committee on Honors. If the essay is found worthy of Honors by the committee, the student will be granted 3 semester credits for the independent-study project with the grade of either A or B and will be admitted to candidacy for graduation "With Honors" in his major field. If the essay is not found worthy of Honors by the examining committee, the Committee on Honors, upon consultation with the examining committee, may recommend that the student be granted 3 semester credits with a passing grade other than A or B for the independent-study project, or it may recommend that he be given the grade F for a 3-credit course.

A student who has successfully completed an independent-study project during the first semester of his senior year may make application to the Committee on Honors for permission to undertake another independent-study project during the second semester of his senior year. All regulations concerning the independent-study project undertaken by a student during the first semester of his senior year will apply to the project
undertaken during the second semester of that year. A student who has undertaken a project for the second semester of his senior year must present an essay worthy of Honors on his project of that semester in order to remain a candidate for graduation “With Honors.”

A student who is a candidate for graduation “With Honors” must pass a three-hour comprehensive written examination on the work of the courses taken in his major field, including Honors Work, at least fifteen days before the beginning of the examination period of the last semester of his senior year. This comprehensive written examination will be set by the student’s major department and will be judged by a committee consisting of two members selected by the student’s major department and one member selected by the Committee on Honors.

A student taking this comprehensive examination will be excused from all the regular final examinations of the last semester of his senior year.

If the comprehensive written examination is found to be worthy of Honors by the examining committee, the Committee on Honors will recommend to the appropriate Faculty or University Senate Standing Committee that the candidate be granted the degree for which he is a candidate “With Honors” in his major field provided that upon completion of his requirements for graduation he has a standing of at least 2.0 in his major field as well as in all college work he has undertaken.

If the comprehensive written examination is found not to be worthy of Honors by the examining committee, the Committee on Honors, upon consultation with the examining committee, will recommend that the candidate be granted his degree without “Honors.”

During the semester or semesters in which a student is working on an independent-study project, he will not be permitted to carry more than 12 credit hours in addition to his Honors Work.

The Committee on Honors will deposit one copy of each approved Honors essay in the University Library.

**INTERDEPARTMENTAL URBAN STUDIES PROGRAM**

A student with a first major in Economics, Geography, Government, or Sociology may earn a second major in the area of urban studies. This interdisciplinary program also permits any student to earn a minor or to construct a plan of study for the concentration requirement. 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 the 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 and beyond the minimum credits required in the student’s first major field. Courses must include Economics 72, Geography 192, Government 203, Sociology 230 (Topic: Urban Sociology), Social Science 150-159 (Topic: Seminar in Urban Policy), and a course in statistics.
The chairman of the department of the student's first major will be responsible for academic advising in connection with this second major.

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 transcript.

A minimum of 15 credits selected from the courses listed (and beyond the minimum credits required in the student's major) constitutes a minor. Courses must include Economics 72, Geography 192, Government 203, and Sociology 230 (Topic: Urban Sociology.)

Further details concerning the courses may be secured from the Dean of the College of Arts and Sciences.

OFF-CAMPUS PROGRAMS

INTERNATIONAL STUDIES SEMESTER

Valparaiso 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.

COVAL PROGRAM

THE JUNIOR YEAR ABROAD—The Department of Speech and Drama offers, in cooperation with the Central States College Association, a year of specialized training and experience at Coventry Cathedral, England, to individuals who are interested in the area of Drama and the Church. Students participating in this Program are registered at Valparaiso, either as regular students or as transient students. For further information concerning this Program, inquiries should be directed to the Director of International Studies.
WASHINGTON SEMESTER PROGRAM

The Washington Semester 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 see 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 Government 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 80.

For a description of the three required courses of the Program, see page 175.

URBAN AFFAIRES SEMESTER PROGRAM

The Urban Affairs Semester 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 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 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 Government 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.
The Semester on the United Nations, established by an 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 about 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 Government 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 80.

For a description of the two required courses of the Semester, see page 175.

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 Institute. 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 student. In the event the surplus is $75.00, or less, the student will receive no refund.

THE VALPARAISO-INDIANA GEOGRAPHY AND GEOLOGY ASSOCIATION (VIGGA)

The purpose of this association is: To provide educational opportunities on the undergraduate level in the geological and geographical sciences to
the students enrolled at Valparaiso University and Indiana University Northwest, Gary. Provisions are made for full-time undergraduate students, in these academic disciplines, to enroll beginning with the school year of 1970-1971 under the following conditions:

(a) Students may take a maximum of two courses per semester at the other participating institution.

(b) These courses will be treated as part of the student's normal load at his home institution and tuition and fees will be paid accordingly.

(c) The total number of credit hours to be taken will be determined by the home institution.

(d) Students who wish to take courses at the host institution should obtain the recommendation of the chairman of the Department of Geography (V.U.).

(e) Grades earned shall be recorded at the home institution.

(f) A C average must be achieved on VIGG association courses to qualify the student to register for courses at the host institution in the following semester.

Association Students at Valparaiso University are expected to satisfactorily complete the following curriculum from course offerings at Valparaiso University and Association course offerings at Indiana University Northwest in order to complete the major in geology. (Degrees are to be awarded by the home institution):

41 Geomorphology Cr 4 (VU)
G-112 Elements of Geology II Cr 3 (IUN)
G-221 Introduction to Mineralogy Cr 3 (IUN)
G-222 Introduction to Petrology Cr 3 (IUN)
G-323 Structural Geology Cr 3 (IUN)
G-334 Principles of Sedimentation and Stratigraphy Cr 3 (IUN)
G-406 Introduction to Geo-Chemistry Cr 3 (IUN)
G-411 Principles of Invertebrate Paleontology Cr 3 (IUN)
G-490 Undergraduate Seminar Cr 1 (IUN)
44 Meteorology and Climatology Cr 4 (VU)
G-420 Regional Geology Field Trip Cr 1 (IUN)

Additional Indiana University Northwest association course offerings open to Valparaiso University students majoring in geology are: G-399, G-404, G-410, G-416, G-480, G-499 (see I.U.N. catalogue).

ADJUNCT ACTIVITIES OF THE COLLEGE

OFF-CAMPUS NURSING DIVISIONS

Valparaiso University maintains an instructional staff in each of the following hospital schools of nursing: Lutheran Hospital School of Nursing, Ft. Wayne, Indiana; Lutheran Hospital of St. Louis School of Nursing, St. Louis, Missouri; and Lutheran Hospital School of Nursing, Cleveland, Ohio. In these schools, as part of co-operative programs, Valparaiso University teaches certain courses in natural sciences, social sciences, English, and religion. University course work done in any one of these three hospital
schools of nursing may be used to meet part of the residence requirements of the University provided that the student meets the University requirements for admission as a fully matriculated student.

SUMMER INSTITUTES

1971 SUMMER INSTITUTE FOR HIGH SCHOOL TEACHERS OF BIOLOGY

Under a grant from the National Science Foundation, Valparaiso University will offer a Summer Institute for High School Teachers of Biology from June 28 to August 6, 1971. The major emphasis of this Institute will be to provide the opportunity for high school biology teachers to become better acquainted with basic concepts of contemporary molecular biology.

All members will be enrolled in the following two undergraduate-graduate courses designed specifically for the Institute:

202. PHYSIOLOGICAL GENETICS. 2+3, Cr. 3. A study of gene action on the molecular level. This course deals with the chemical nature of proteins, DNA and RNA, protein synthesis, genetic code, mutation, gene interaction, regulation and control.

204. CELL PHYSIOLOGY. 2+3, Cr. 3. A study of the chemistry and function of the cell. The following topics will be covered: biochemistry of cell constituents, the physiochemical environment, bioenergetics, internal metabolism, membrane transport, muscle and nerve action, and regulation of internal environment.

NOTE: Conditions under which these credits may be counted toward meeting the requirements for the degree of Master of Arts in Liberal Studies will be sent upon request.

1971 SUMMER INSTITUTE IN SOCIOLOGY AND SOCIAL SCIENCES

Under a grant from the National Science Foundation, the Valparaiso University Sociology Department will offer a summer training program in sociological methods, content and materials for 40 teachers selected nationally. Teacher-students will complete three courses during the summer period. Each will enroll in Sociology 310 (Seminar in Sociology), 203 (Social Research), and Education 214 (Teaching the Social Sciences in the Secondary School). All credits earned may be counted toward the M.A. in L.S. degree at Valparaiso University.

LAW ENFORCEMENT EDUCATION PROGRAM

Through a grant received from the Department of Justice and directed by the Sociology Department, financial assistance is now available to part-time or full-time undergraduate and graduate students interested in police, probation, parole, criminal justice planning, and correctional work. Under the terms of the grant the University may make loans up to $1800.00 and grants up to $600.00 per year to qualified students. Special Activity Fee, $15.00 per semester. Inquiries should be addressed to: Director, Law Enforcement Education Program, Department of Sociology, Valparaiso University, Valparaiso, Indiana.
THE DEPARTMENT OF ART

Associate Professor Brauer (Chairman); Associate Professor Caemmerer; Assistant Professors Frey and Sullivan; Miss Ushenko

MAJOR—A minimum of 27 credits in Art. Courses must include Art 17, 21, 31, 33, 71, 121, 151, and 205.

Majors with professional or graduate school ambitions should go beyond the minimum of twenty-seven credits of art courses to a total of forty-eight credits of art courses. These art courses should be chosen to fulfill one of the following specialized programs: Painting; Sculpture; Design; Art History; Art Education; “Broad Field” (a broad distribution of courses with, nevertheless, some emphasis in any one area in which courses are offered). All specialized programs must include Art 196. Further description of these specialized programs are available from the chairman 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 transcript.

A minimum of 15 credits in Art constitutes a minor. Art 17, 21, 31 or 33, and 205 must be included.

APPROVAL OF SCHEDULES—Students taking a major in art must have their schedules approved by the chairman of the department at the beginning of each semester. Students who expect to teach art should consult, as early as possible, with the appropriate adviser in the Department of Education concerning state and university requirements.

ART EXHIBITIONS AND OPENING RECEPTIONS—The art exhibitions and opening receptions sponsored by the Sloan Galleries in particular are an integral part of the program of the Department of Art. Students taking their major work in the department should, therefore, consider participation in these scheduled exhibitions and opening receptions as obligatory.

COURSES IN ART

COURSES IN THE THEORY AND HISTORY OF ART

For Undergraduates

17. INTRODUCTION TO ART. Each sem. Cr. 3. A course of study which acquaints the student with important works of art; helps him towards an understanding of visual aesthetics; explains the distinctive characteristics of the major visual arts; indicates the influence of cultural contexts; and guides the student in applying general methods of critical analysis. Field trip fee, $5.00.

111. TOPICS IN THE THEORY AND HISTORY OF ART. Cr. 1, 2, 3, or 4. An investigation of selected topics central to major developments and purposes of the visual arts. Assessment of a fee is dependent on the needs of the particular study or topics. Studio fees are $5.00 per credit hour.

113. Far Eastern Art. Sem. 2. Cr. 3. A survey of the art of India, China, and Japan. Offered in alternate years.

115. (Formerly Christian Art.) Medieval Art. Sem. 1. Cr. 3. A survey of the art and architecture of Europe from the first through the fourteenth centuries.


117. Baroque Art. Sem. 1. Cr. 3. A survey of the art and architecture of Europe from 1600 to 1789. Offered in alternate years.

118. Modern Design and Architecture. Sem. 1. Cr. 3 or 4. A survey of the practical arts of the nineteenth and twentieth centuries, with emphasis on architecture. Field trip fee, $10.00.

For Undergraduates and Graduates

205. Modern Art. Sem. 2. Cr. 3. A study of the major developments in painting and sculpture in the nineteenth and twentieth centuries. Field trip fee, $5.00.

Courses in the Practice of Art

For Undergraduates

21. Drawing. Each sem. 0+9, Cr. 3. A basic course in the fundamentals of drawing using various media. Studio fee, $5.00.

31. Two-Dimensional Design. Sem. 2. 0+9, Cr. 3. A basic course in the fundamentals of forming and organizing visual elements on bounded flat surfaces. Studio fee, $5.00.

33. Three-Dimensional Design. Each sem. 0+9, Cr. 3. A basic course in the fundamentals of forming and organizing visual elements in three-dimensional space. Studio fee, $5.00.

Note: The following courses may be repeated for credit.

41. Crafts. 0+9, Cr. 3. Basic problems in crafting useful/aesthetic objects in various media. Studio fee, $15.00.

51. Ceramics. 0+9, Cr. 3. Problems in hand building, wheel throwing, and glazing clay vessel forms. Studio fee, $15.00.

61. Photography. 0+9, Cr. 3. Problems in forming photographic images for expressive aesthetic purposes with instruction in camera and darkroom techniques. Studio fee, $10.00.

71. Life Drawing. Each sem. 0+9, Cr. 3. A continuation of Art 21, with emphasis on drawing from the nude model. Prerequisite: Art 21. Studio fee, $15.00.

121. Painting. 0+9, Cr. 3. Problems in painting in oil and other media. Prerequisite: Art 21. Studio fee, $5.00.

131. Graphic Design. 0+9, Cr. 3. Problems in the design of mass media visual communications with instruction in layout, typography, symbolic imagery, etc. Production requirements are encountered since many of the course problems are immediate and the student solutions are used. Prerequisite: Art 33. Studio fee, $10.00.

151. Sculpture. 0+9, Cr. 3. Problems in forming sculptural statements in various materials and techniques such as concrete casting, metal welding, wood construction, etc. Prerequisites: Art 21 and 33, or consent of the instructor. Studio fee, $15.00.

161. Printmaking. 0+9, Cr. 3. An introduction to print techniques and composition. Projects in woodcut, silkscreen, and intaglio including drypoint, etching, aquatint, engraving, etc. Prerequisite: Art 21. Studio fee, $15.00.
181. **Liturgical Design.** 0+9, Cr. 3. A study of the practical application of fine art and design to the worship and instructional life of the Church. Investigation and execution of liturgical art projects. Prerequisites: One Practice of Art course and consent of the instructor. Studio fee, $15.00.

**Courses in the Teaching of Art**

For Undergraduates

109. **Elementary School Art Processes.** Each sem. 0+9, or 0+12, 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. Studio fee, $15.00.

119. **(Formerly Art in the Secondary School.) Secondary School Art Processes.** Sem. 2. 0+12, 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. Studio fee, $15.00.

191. **The Teaching of Art.** Sem. 1. Cr. 2. 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 Courses in Art**

For Undergraduates

196. **Senior Studies.** Each sem. 0+3, Cr. 1. 0+6, Cr. 2. 0+9, Cr. 3. 0+12, Cr. 4. Independent work in a major's specialized program. This work should contribute directly to a senior exhibition and/or portfolio or other appropriate capstone presentation of the major's capabilities.

198. **Special Studies.** Each sem. 0+3, Cr. 1. 0+6, Cr. 2. 0+9, Cr. 3. 0+12, Cr. 4. A course of studies arranged by a professor and one or more students. A Satisfactory/Unsatisfactory grade may be given if so stipulated at the beginning of the course. Prerequisites: Upper-class major, or consent of the faculty adviser, and consent of the chairman of the department.
THE DEPARTMENT OF BIOLOGY

Professor Kreker (Chairman); Professors Bloom, Gunther, Hanson, and Nichols; Associate Professors F. Meyer, Peri, and Tan; Assistant Professor Marks

MAJOR—A minimum of 24 credits in Biology beyond Biology 50. Courses must include Biology 60, 61, and 63; at least three of courses 207, 209 or 220, 211, 225; and two credits in 193, Pro-Seminar.

The major student is encouraged to enrich his basic scientific preparation and knowledge by registering for courses in chemistry, mathematics, and physics. A chemistry minor is strongly recommended. German or French should be taken to meet the foreign language requirement.

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 transcript.

A minimum of 15 credits in Biology constitutes a minor.

APPROVAL OF SCHEDULES

All students taking a major or a minor in the department and all students planning to teach biological subjects must have their schedules approved by the chairman of the department at the beginning of each semester.

NOTE: Entering students who test out of the Unity of Life, 50, by taking a departmental examination will be granted 4 credits toward graduation.

COURSES IN BIOLOGY

For Undergraduates

41. ANATOMY AND PHYSIOLOGY. Sem. 1. 2+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 Fort Wayne, St. Louis, and Cleveland Divisions only).

42. ANATOMY AND PHYSIOLOGY. Sem. 2. 2+2, Cr. 3. A continuation of Biology 41. (Given in Fort Wayne, St. Louis, and Cleveland Divisions only.)

46. MICROBIOLOGY. Sem. 2. 2+2, Cr. 3. A study of micro-organisms and their relation to health and disease. (Given in Fort Wayne, St. Louis, and Cleveland Divisions only.)

50. 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.

60. DIVERSITY OF LIFE. Each sem. 2+4, Cr. 4. A survey of the plant and animal kingdoms. Modern classifications systems are considered. Emphasis is on the structures and their functions, life cycles, development, ecology, distribution, social and economic importance of representative members of both kingdoms. Prerequisite: Biology 50. Laboratory and field trip fee, $10.00.
61. GENETICS. Each sem. 2+3, Cr. 3. 3+3, Cr. 4. 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.

63. SYSTEMATIC BIOLOGY. Sem. 2. 1+0, Cr. 1. Lectures on principles of modern systematic biology as related to the synthetic theory of evolution. Must be accompanied by Biology 64 and/or 65. Prerequisites: Biology 60 and 61.

64. ENTOMOLOGY. Sem. 2. 0+6, Cr. 2. Laboratory, field work, and discussions dealing with the systematics and basic biology of insects and their arthropod relatives. Must be accompanied or preceded by Biology 63. Laboratory fee, $5.00.

65. SYSTEMATIC BOTANY. Sem. 2. 0+6, Cr. 2. Laboratory, field work, and discussions dealing with the systematics and basic biology of the seed plants. Must be accompanied or preceded by Biology 63. Laboratory fee, $5.00.

100. ORNITHOLOGY. Sem. 2. 1+3, Cr. 2. An introductory course in birds. Lectures will emphasize structure, physiology, classification, migration, ecology, and conservation. Field work will stress methods of study, identification of species, songs, nesting habits, and general behavior. Prerequisites: Biology 50 and junior standing. Laboratory fee, $5.00.

103. EXPERIMENTAL BOTANY. Sem. 1. 1+4, Cr. 3. An experimental approach to the study of the plant kingdom with emphasis on the Embryophyta. Patterns of gross and microscopic anatomy are considered as providing clues to the evolutionary origins of plant groups. Living materials are used whenever possible in conducting experiments on developmental, morphological, and physiological phenomena of plants and plant organs. Prerequisites: Biology 50 and 60 and junior standing. Laboratory fee, $5.00. (Offered 1972-1973. Not offered 1971-1972.)

110. MICROBIOLOGY. Each sem. 2+5, Cr. 4. A study of microbes including bacteria, viruses, rickettsia, yeasts and fungi with emphasis on disease and applications for control. Prerequisites: Biology 50 and Chemistry 44 or 52. Laboratory fee, $5.00. (May not be credited toward graduation by students who take Biology 209.)

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.

125. BIOMETRY. Sem. 1. 2+2, Cr. 3. Basic concepts and principles underlying quantitative and statistical methods in biology. Topics include finite probability, statistical measures, distributions, tests of significance, analysis of variance and elementary experimental design, regression and correlation, nonparametric statistics. Prerequisites: Biology 61 and one year of college mathematics or consent of the instructor. Not open to students who have had a course in statistics. Laboratory fee, $5.00. (Not offered in 1972-1973. Offered in 1971-1972.)

137. (Formerly 217.) COMPARATIVE PSYCHOLOGY. (Also offered as Psychology 137.) Sem. 2. 2+4, Cr. 4. A psychological approach to the development of behavioral processes in animals and man, with special reference to motivational mechanisms of behavior. Prerequisites: 9 hours selected from biology and psychology. Laboratory fee, $10.00.

185*, 186*, 187*, 188*. BIOLOGICAL PROBLEMS. Each sem. Cr. 1. Special research problems. Prerequisites: 14 credit hours in the department and consent of the chairman of the department. A maximum of 4 credits in this course may be applied toward graduation.

*Grades of S and U are given for these courses.
191. THE TEACHING OF BIOLOGICAL SCIENCES. Sem. 2. 1+2, Cr. 2. See Education 191. The aims and methods of teaching biology, botany, and zoology in the secondary schools. 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*. PRO-SEMINAR IN BIOLOGY. Each sem. Cr. 1. Student and staff presentation and discussion of one of the following topics:
   a. Biogeography
   b. Biology of the Algae
   c. Biology of Sex
   d. Comparative Physiology
   e. Endocrinology
   f. Evolution (Prerequisite: Biology 63.)
   g. History of Biological Thought
   h. Human Genetics (Prerequisite: Biology 61.)
   i. Immunology
   j. Light and Life
   k. Parasitism
   l. Plant Growth and Development
   m. Protozoology
   n. Radiobiology
   o. Viruses

At least three topics will be offered each semester so that all will be offered during each two-year period. Registration open only to juniors and seniors who have had 14 credit hours in biology; biology minors and others are encouraged to attend those seminars which interest them. A maximum of two Pro-Seminars may be credited toward graduation.

199*. RESEARCH PARTICIPATION. Summers only. Cr. 6. Participation in research with staff members under a grant from the National Science Foundation. By invitation.

For Undergraduates and Graduates

203. HUMAN ENVIRONMENTAL BIOLOGY. Each sem. 2+3, Cr. 3. Lectures, conferences, demonstrations, and laboratory work considering man's health and physical needs in relation to his past, current, and future environmental situation. Special emphasis is given to problems associated with the biological nature of man, healthful living, occupational and recreational conditions, environmental pollution, and public health organizations and functions. Prerequisites: completion of general education natural science requirements and junior standing. Laboratory fee, $5.00.

205. BIOCHEMISTRY. (Also offered as Chemistry 205.) Sem. 2. 4+0, Cr. 4. The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism. Prerequisites: Chemistry 64 and 71 or equivalent.

207. 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 63. Laboratory and field trip fee, $10.00.

209. BACTERIOLOGY. Sem. 2. 2+6, Cr. 4. An intensive study of the cell biology of bacteria and their viruses including morphology, cultivation, physiology, environmental factors, and genetics. Prerequisites: Biology 61 and Chemistry 71. Laboratory fee, $5.00.

*Grades of S and U are given for these courses.
211. **General Physiology.** Sem. 2. 3+3, Cr. 4. A study of the fundamental physiological 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 (which may be taken concurrently) and Biology 50. Laboratory fee, $5.00.

220. **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: Chemistry 71 (which may be taken concurrently) and Biology 61. Laboratory fee, $5.00.

225. **Developmental Biology.** Sem. 1. 2+3, Cr. 3. An introduction to the descriptive and analytic study of plant and animal development and growth, with emphasis on higher plants and vertebrate animals. Prerequisite: Biology 61. Laboratory fee, $5.00.
THE DEPARTMENT OF CHEMISTRY

Professor Cook (Chairman); Professors Deters, Larson, Leoschke, Schwan, and L. Smith; Associate Professors Ferguson and E. Nagel

MAJOR—A minimum of 25 credits in Chemistry. Courses must include Chemistry 52 (or 63), 64, and 118 or 120. For the plan of study option, Chemistry 112 must also be included.

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 course (4 hours of which may be an advanced course in physics or mathematics). This major must include Chemistry 64, 112, 120, 122, 130, 193-194, 202, and 210; calculus; Physics 68 or equivalent; and one other advanced science course approved by the department. 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 of Chemistry 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 transcript.

A minimum of 16 credits in Chemistry constitutes a minor. Chemistry 64 and 71 must be included. (A minimal minor is 12 credits if Chemistry 63 is taken in place of Chemistry 51 and 52.)

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN CHEMISTRY

For Undergraduates

43. GENERAL CHEMISTRY. Each sem. 3+2, 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, $10.00.

44. GENERAL CHEMISTRY. Sem. 2. 3+2, 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, $10.00.

47. GENERAL CHEMISTRY. Sem. 1. 3+2, Cr. 4. This course consists of an introduction to inorganic, organic and physiological chemistry. (Given in Fort Wayne, St. Louis, and Cleveland Divisions only.)

51. GENERAL CHEMISTRY. Sem. 1. 3+3, 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, $10.00.
51E. **General Chemistry.** Sem. 1. 3+2, Cr. 4. Same as Chemistry 51 except for laboratory hours. Intended for engineering students. Laboratory fee, $10.00.

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, $10.00.

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 51E.

55. **Physiological Chemistry.** (Also offered as Home Economics 65.)
Sem. 2. 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 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. Admittance by special examination. Laboratory fee, $10.00.

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, $10.00.

71. **Organic Chemistry.** Each sem. 4+3, Cr. 5. An introductory survey of the nomenclature, synthesis, structure, and properties of carbon compounds. Prerequisite: Chemistry 52 or 63. Laboratory fee, $10.00.

101. **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, $10.00. (Not open for credit to students who have taken Chemistry 111.)

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 68. Laboratory fee, $10.00.

112. **Physical Chemistry.** Sem. 2. 3+3, Cr. 4. A continuation of Chemistry 111. Prerequisite: Chemistry 111. Laboratory fee, $10.00.

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, $10.00. (Not open for credit to students who have taken Chemistry 120.)

120. **Intermediate Organic Chemistry.** Sem. 1. 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, $10.00. (Not open for credit to students who have taken Chemistry 118.)

122. **Analytical Chemistry.** Sem. 2. 2+3, Cr. 3. A study of the theory and practice of instrumental and other advanced analytical techniques. Prerequisite: Chemistry 112 (may be taken concurrently). Laboratory fee, $10.00.
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*, *Beilstein*, and chemical journals.

191. **The Teaching of Physical Sciences.** 1+3, Cr. 2. (See Education 191). A study of the methods of teaching chemistry in secondary schools. 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.)

192*. **Seminar in Chemistry.** Each sem. Cr. 0. (Concurrent with 193-194.) 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.

193-194. **Seminar in Chemistry.** Each sem. Cr. 1. Required of all senior forty-credit hour majors. Each student must prepare and present a report on a special topic in chemistry.

195. **Special Problems in Chemistry.** Sem. 1. Cr. 1. 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.

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

*For Undergraduates and Graduates*

201. **Elements of Physical Chemistry.** Sem. 1. 3+3, Cr. 4. A one-semester course in physical chemistry covering principles of thermodynamics and kinetics, together with their applications to various chemical and biological systems. Prerequisites: Chemistry 64 and 71 or equivalent. Laboratory fee, $10.00. Open to graduate students only.

202. **Advanced Organic Chemistry.** Sem. 1. 1+6, 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 120 and 101 or 111, or consent of the chairman of the department. Laboratory fee, $10.00.

205. **Biochemistry.** (Also offered as Biology 205.) Sem. 2. 4+0, Cr. 4. The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism; stress on physical biochemistry topics and enzyme kinetics. Prerequisites: Chemistry 64 and 71 or equivalent.

207. **Introduction to Quantum Mechanics.** Sem. 1. 3+0, Cr. 3. The fundamental concepts of quantum mechanics are examined. Topics include state functions and their interpretations, the Schroedinger equation, approximation methods, the hydrogen atom, and multielectron atoms. Prerequisites: Chemistry 112 and Mathematics 180 or consent of the instructor. (Mathematics 180 may be taken concurrently.)

210. **Advanced 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.

*Grades of S and U are given for this course.*
THE DEPARTMENT OF ECONOMICS

Professor Laube (Acting Chairman); Professor Goehring; Assistant Professors Bernard, Lesnick, and Noller

The Department of Economics 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 there is no restriction on the number of credits to be earned in Quantitative Analysis. 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 112 “Regulations on the Use of Credits”).

MAJOR—A minimum of 30 credits in Economics. Courses must include Economics 71, 72, 185, 281, and 282. Mathematics 35 and 36 (or the equivalent) and Quantitative Analysis 85 and 86 or 89 (or the mathematics equivalent of 89) 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 transcript.

A minimum of 18 credits in Economics constitutes a minor. Economics 71, 72, and Quantitative Analysis 85 must be included.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN ECONOMICS

For Undergraduates

71. PRINCIPLES OF ECONOMICS. Each sem. Cr. 3. An introductory study of the central functions and problems of an economic system with emphasis upon the institutions characterizing the American economy.

72. PRINCIPLES OF ECONOMICS. Each sem. Cr. 3. An introduction to macro-economic analysis with emphasis on National Income, Consumer spending, Investment, Government, and Monetary aspects.

73. GENERAL ECONOMICS. Each sem. Cr. 3. An introduction to the techniques of economic analysis and a survey of major economic institutions and problems. Prerequisite: Registration in College of Engineering. (Not open to students who have taken Economics 71.)

107. COMPUTER PROGRAMMING AND NUMERICAL COMPUTATION. (Also offered as Mathematics 84.) Each sem. Cr. 3. The purpose of this course is to acquaint the student with computer programming languages including machine languages Fortran, Algol, and Cobol. Application of these languages is made to the programming of simple arithmetic and algebraic problems including elementary statistical measures. Prerequisites: Mathematics 35 and 36 or the equivalent, and Economics 72, plus either a statistics or a mathematics course numbered above 36 or its equivalent. Laboratory fee, $10.00.

173. COMPARATIVE ECONOMIC SYSTEMS. Sem. 1. Cr. 3. A comparative analysis of contemporary systems of economic organization, including socialism, communism, capitalism, and their variants. Prerequisites: Economics 71 and 72.

174. PUBLIC FINANCE. (Also offered as Finance 166.) 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.

175. ECONOMIC INSECURITY AND SOCIAL INSURANCE. Sem. 2. Cr. 3. An analysis of the socio-economic risks of accident, disease, unemployment, old age, poverty, and the social insurance and welfare programs designed to meet these risks. Prerequisites: Economics 71 and 72.

176. INTERNATIONAL ECONOMICS. Sem. 2. Cr. 3. A study of the theory underlying and 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 man. 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.

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.

188. MONETARY THEORY AND POLICY. Sem. 2. Cr. 3. An examination of monetary theories and its impact on aggregate economic behavior. Prerequisite: Economics 185.

189. PROBLEMS IN ECONOMICS. Each sem. Cr. 1-3. A course in which a special topic in economics will be given intensive study. The topic will vary from year to year. Prerequisite: senior standing in the College or consent of the chairman of the department.

For Undergraduates and Graduates

275. 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 and junior standing.

281. 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 and junior standing.

282. INTERMEDIATE MACRO-ECONOMIC THEORY. Sem. 2. Cr. 3. A critical examination of theories of national income determination and of techniques for measuring and analyzing aggregate economic activity. Prerequisites: Economics 71 and 72 and junior standing.

286. 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 and junior standing.
THE DEPARTMENT OF EDUCATION

Associate Professor Kochendorfer (Chairman); Professors Hillila, Kroenke, Lange*, Rubke, and Schwanholt; Associate Professors Koester, Speckhard, and Swihart; Assistant Professors Lambert, Schrenker, and Stiemke

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 concerning adjustments in programs of study to meet certification requirements of the states in which they plan to teach.

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 baccalaureate degree and interested in qualifying for certification should consult with the chairman of the department.

ADVISING

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. They shall meet the requirements for a major in their teaching 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 chairman of the department is also required for admission to courses numbered above 101.

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 103 of this bulletin. His course work must include the following as a minimum:

1. **RELIGION**: 9 semester hours
2. **LANGUAGE ARTS**: 17 semester hours
   Must include 14 credits in English (including one course in Literature for Children) and one course in speech.
3. **SOCIAL SCIENCE**: 18 semester hours
   Must include two courses in history and one course in conservation. The following areas are considered social sciences: Economics, Geography, Government, History, and Sociology.
4. **SCIENCE AND MATHEMATICS**: 21 semester hours
   Must include three courses and a minimum of 12 credits in at least two of the following areas: Biology, Chemistry, Physical Geography, and Physics and 9 credits of mathematics for the elementary teacher.
5. **FINE ARTS**: 9 semester hours
   Must include at least one course in history or theory of music and one course in art.
6. **GENERAL STUDIES**: 3 semester hours
   Must include one upper-class general studies course. This course may be counted toward meeting the requirements in Language Arts, Social Science, Science, or Fine Arts.
7. **OTHER SUBJECTS**: 5 semester hours
   Must include General Psychology and Physical Education.
8. **EDUCATION**: 32 semester hours
   Must include an introductory course in education, psychological foundations of education, methods in elementary education, and 8 credits of student teaching.
9. **ELECTIVES**: In addition to the above requirements, the student must present sufficient electives to achieve the total number of credits required for graduation. For a student graduating during the school year 1971-1972, a total of 126 credits is required. Thereafter, 124 credits will be required.

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

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<th>First Semester</th>
<th>Cr.</th>
<th>Second Semester</th>
<th>Cr.</th>
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<tr>
<td>English</td>
<td>4</td>
<td>Religion</td>
<td>3</td>
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<tr>
<td>Science</td>
<td>4</td>
<td>Fine Arts</td>
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<tr>
<td>History</td>
<td>3</td>
<td>Speech</td>
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<tr>
<td>Social Science</td>
<td>3</td>
<td>History</td>
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<td>Physical Ed.</td>
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<td>Social Science</td>
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<td>Physical Ed.</td>
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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 Introduction to Education during this year. Application for admission to the Teacher-Education Program should be made during the spring semester.

*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 recommendation 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 program.

**REQUIREMENTS**—An undergraduate student preparing to teach in the secondary schools should complete requirements for the appropriate degree in his major.

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

I. Humanities—23 semester credits
   - English ............................................. 8 credits
   - Speech ............................................. 3 credits
   - Foreign Language or Fine Arts ........ 6 credits
   - Philosophy or Religion ............ 6 credits

II. Life and Physical Sciences—15 semester credits
   The 15 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—15 semester credits
    The 15 credits are to be selected from at least three of the following areas and must include General Psychology: Economics, Geography, Government, History, Psychology, and Sociology. (Since some states require all teachers to have a course in U. S. History, it is recommended that prospective teachers take at least one such course.)

*Students must ascertain that they are meeting the above General Education requirements as well as the university degree requirements.*

Professional Education requirements include:

1. Introduction to Education (Education 62) — 3 credits.
   (Preferably taken in the sophomore year)

2. Formal application and admission to the Teacher-Education Program in the fall semester of the junior year.
3. 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.

4. Completion of the Professional Semester. Courses included in the Professional Semester are:

- **Ed 188** Psychological Foundations of Secondary Education 4 credits
- **Ed 190** Principles and General Methods of Teaching in the Secondary Schools 4 credits
- **Ed 191** Special Methods 2 credits
- **Ed 194** Supervised Teaching in the Secondary-School Subjects 7 credits

Teaching Major and Teaching Minor Requirements

1. A teaching major (or area major) is required of all secondary teacher candidates. A teaching minor is recommended.

2. Courses that are used to satisfy General Education requirements may also be counted to meet teaching major and minor requirements, but a course counted for one teaching major or minor may not be counted for another teaching major or minor.

3. Credits earned by passing examinations and noted on transcripts may be used to meet certification requirements.

4. Specific requirements for teaching majors and minors should be obtained from the Department of Education or the major adviser.

**ADMISSION TO THE TEACHER-EDUCATION PROGRAM**

To be admitted to the Teacher-Education Program a student must submit a written application to the Department of Education. This application must be made by elementary education majors in the spring semester of the sophomore year and by secondary education students in the fall semester of the junior year.

The Teacher Education Committee of the College of Arts and Sciences will take action on the application upon the recommendation of the Committee on Admission to Teacher Education and 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 1.25 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 1.00 g.p.a. in all course work taken in the Department of Education. Post baccalaureate students must establish a 1.75 g.p.a. in all course work (12 hours minimum) taken at Valparaiso University subsequent to earning the baccalaureate degree.

2. communication skills—an applicant must have obtained a grade of C or better in the course Speech for Teachers or the equivalent and must give evidence of proficiency in written English.
(3) health—the Committee on Admission shall obtain clearance from the University Health Center indicating that each applicant is free of serious mental or physical health problems that might impair future teaching effectiveness.

(4) character—the Committee on Admission will examine student personnel folders and consult with the personnel deans to determine the status of the applicant on this criterion.

(5) faculty recommendations—positive recommendations from two faculty members must be obtained by each applicant. One of these must be obtained from the Introduction to Education instructor. Secondary education students must obtain the second recommendation from the major adviser.

When an applicant is noted as questionable on any of these criteria, he may be asked to meet with the Committee on Admission to Teacher Education before final action is taken. All students who do not apply at the appropriate time must make special application, including an interview, with this committee.

**PROFESSIONAL SEMESTER**

A professional 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 SUPERVISED TEACHING**—Preliminary application for admission to the Professional Semester (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 must have met the following requirements:

(1) He must have senior standing and be within two semesters and one summer of graduation.

(2) He must have completed at least 12 credit hours in Valparaiso University of which 3 credit hours must be in education.

(3) He must have shown the social and emotional maturity, the responsibility, and the dependability necessary for success in the teaching profession.

(4) He must have been admitted officially to the Teacher-Education Program.

(5) He must have maintained a satisfactory grade point average since his admission to the Teacher-Education Program.

**PLACEMENT OF STUDENT TEACHERS**—The placement of student teachers and the direction of supervised teaching experiences are the responsibilities of the Co-ordinator of Student Teaching. Approved elementary and secondary student teachers will be assigned to a select school 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.

COURSES IN EDUCATION

For Undergraduates

NOTE: No student will be admitted to any courses beyond Education 101 unless he has completed Education 62, has been admitted to the Teacher-Education Program, and has achieved at least junior standing.

62. INTRODUCTION TO EDUCATION. Each sem. Cr. 3. An introduction to education offering a full view of the American system of education with special emphasis upon historical, philosophical, and sociological aspects; opportunities of educational workers; and the responsibilities of good citizens to their schools. Field trip fee, $5.00.

101. EDUCATIONAL PSYCHOLOGY. Each sem. Cr. 3. This course applies the principles of psychology to the problems of teaching and learning. The results of experimental research in this area are analyzed. Prerequisites: junior standing and Psychology 51. (Not open to majors or minors in Education.)

140. KINDERGARTEN EDUCATION. Each sem. 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 pre-school child.

150. PRINCIPLES OF ELEMENTARY EDUCATION AND METHODS OF TEACHING READING AND SCIENCE. Each sem. 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.

151. PSYCHOLOGICAL FOUNDATIONS OF ELEMENTARY EDUCATION. Each sem. Cr. 4. The course provides a basis in psychological research and theory to aid teachers in guiding the learning and development of children. Involves directed classroom observation. Prerequisites: junior standing and Psychology 51. (To be taken concurrently with Education 150.)

174. PHILOSOPHY OF EDUCATION. Each sem. Cr. 3. The course is designed to assist the student in formulating a philosophy of education. Basic operational issues in American education will be examined in light of the conflicts and contributions of the major systems of philosophy. Special attention will be given to defining the what, the why, and the how of education in a democracy.

181. ELEMENTARY METHODS AND TECHNIQUES OF TEACHING. Each sem. Cr. 8. The student is expected to give full time for approximately nine weeks of the professional semester to a study of the development and organization of the elementary school; including principles, content, curriculum, methods, 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.

188. PSYCHOLOGICAL FOUNDATIONS OF SECONDARY EDUCATION. Each sem. Cr. 4. The course provides a basis in psychological research and theory to aid teachers in guiding the learning and development of adolescents. Involves directed classroom observation. This course is restricted to students enrolled in the Professional Semester in secondary education. Prerequisite: Psychology 51.
190. Principles and General Methods of Teaching in the Secondary Schools. Each sem. Cr. 4. A study of the principles, methods, techniques, and materials involved in teaching in the secondary school; a basic introductory course to teaching.

191. Special Methods in the Academic Courses in Secondary Education. Cr. 2. This course is administered by the Department of Education. It is given in the various departments of the College of Arts and Sciences under the following titles:

- The Teaching of Art
- The Teaching of Biological Sciences
- The Teaching of English
- The Teaching of Foreign Languages
- The Teaching of Home Economics
- The Teaching of Mathematics
- High School Music Methods
- The Teaching of Physical Education
- The Teaching of Physical Sciences
- The Teaching of Speech and Drama

Prerequisites: Education 62 and admission to the Professional Semester.

192*. Supervised Teaching in the Elementary Grades. Each sem. Cr. 8. This course gives the student opportunities for observation, actual classroom teaching, and participation in related activities in elementary schools under the direction of the supervising teacher and the University supervisor. Students are expected to give full time to this course for approximately nine 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 load of more than 17 credit hours. Fee, $65.00.

194*. Supervised Teaching in the Secondary-School Subjects. Each sem. Cr. 7. Each student will be assigned to a secondary school for laboratory experiences, which will include at least 246 clock hours of 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. Fee, $65.00.

197*. Advanced Supervised Teaching. Each sem. Cr. 3. Four weeks of full-time student teaching are required. Enrollment in this course is restricted to students: (1) who have completed Education 192 or 194, (2) who wish to extend their certification coverage. Fee, $35.00.

For Undergraduates and Graduates

200. Mathematics in the Elementary School. Cr. 2. Psychological and instructional aspects of arithmetic, elementary algebra, and geometry, including new methods of teaching based on recent scientific studies; diagnostic and corrective measures. Prerequisites: Mathematics 43 or 243, or a basic course in the updated mathematics, and consent of the chairman of the department.

201. Audio-Visual Education. 1+2, Cr. 2. This course is a study of the principles and techniques underlying auditory and visual aids to classroom teaching and offers laboratory experience in their uses. Prerequisite: consent of the chairman of the department.

202. Supervised Internship and Seminar. Cr. 4. An advanced program of practicum internship consisting of observation-participation, demonstration, research, and seminar in elementary teaching. This course is specifically designed for students enrolled in the MAT-Elementary program. A weekly seminar extending over a period of one semester is included as a part of the course. Fee, $50.00.

*Grades of S and U are given for these courses.
205. Educational Measurement. Cr. 3. A course dealing with the history and theory of measurement, statistical analysis and interpretation of measurement data, and testing in relation to pupil achievement and guidance.

210. The Elementary 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 curricular patterns.

212. The Teaching of Reading. 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.

213. Science in the Elementary School. 1+2, Cr. 2. 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. Laboratory work is required. Prerequisites: 12 hours in science and consent of the chairman of the department.

214. Teaching the Social Sciences in the Secondary School. Cr. 2. A course designed to organize selected materials from the social sciences into teachable content at the junior-senior high school level. An analysis of objectives, curriculum patterns, methods of transmission, materials of instruction as means of the kind of effective learning necessary for the student to compete successfully in our modern technological society is attempted.

215. The Junior High School. Cr. 2. The role of the junior high school will be explored. Particular attention will be given to a critical analysis of current practice in the nature, purpose, organization, administration, and supervision of the junior high school. Prerequisite: Education 190 or the equivalent.

220. Foundations of Reading. Cr. 3. A course designed to review basic and current accepted practices in teaching reading. Problems concerned with the teaching of reading, remedial reading, and guiding the reading of gifted children will be included. Prerequisite: basic course in the teaching of reading.

226. Seminar in Curriculum Problems. Cr. 2. The seminar will study in depth selected problems in one area of the curriculum of the elementary or secondary school. The curriculum area selected for study will be determined on the basis of interests represented by those taking the course. Prerequisite: consent of the chairman of the department.

240. Educational Guidance and Counseling. Cr. 3. A course dealing with the nature, functions, and organization of student personnel programs in elementary and secondary schools with counseling and guidance services the central feature. Prerequisite: Education 205 or the equivalent.

283. Teaching of Language Arts. Cr. 2. An advanced study of the elementary school language arts curriculum considering content and skill requirements as evidenced in present practice and current theory. (Restricted to graduate students or teachers-in-service.)

284. Teaching of Social Studies. Cr. 2. An advanced study of the scope and sequence of curriculum making in elementary school social studies including instructional resources, methods, trends, and problems as viewed by practice, theory, and research. (Restricted to graduate students or teachers-in-service.)

For Graduates

305. Philosophical Foundations of Education. Cr. 3. A course in educational thought designed to explore systems of thought with emphasis upon educational philosophic patterns, their influence upon the implications for practice and theory in education.
310. ADVANCED EDUCATIONAL PSYCHOLOGY. Cr. 3. Basic study of psychological concepts and phenomena as related to the teaching-learning situation. Emphasis on the interpretation and analysis of psychological research concerning human behavior and development. Designed particularly for experienced teachers. Prerequisite: 15 hours in education or consent of the instructor.

317. RESEARCH IN EDUCATION. Cr. 3. A course designed to develop skill in reading, interpreting, and evaluating research in education. Students are required to review research in a specific area of education and to design a research study in one area of interest to them. 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: beginning course in the teaching of reading and a course in statistics or measurement.

327. REMEDIAL READING. Cr. 3. A course designed to develop the concept of remedial and corrective reading, skills in diagnosis of reading difficulties, appropriate remedial techniques and procedures, and the production and evaluation of instructional materials. Prerequisite: beginning course in the teaching of reading.

328. THE SUPERVISION OF STUDENT TEACHING. 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.

329. CLINICAL PRACTICUM IN READING. Cr. 3. Guided experience in clinical diagnosis; practice in dealing with specific procedures for the correction of various types of reading disabilities. Prerequisite: Education 327 or the equivalent. (Open only to students completing a reading endorsement at Valparaiso University.)

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.
THE DEPARTMENT OF ENGLISH

Associate Professor Loucks (Chairman); Professors Friedrich, Phipps, Risley, Tuttle, and Umbach; Associate Professors A. G. Meyer, Prahl, and Wegman; Assistant Professors Cunningham, Feaster, Galow, E. Loeppert*, and Teichroew; Mrs. Bauengaeriner, Mr. Knarr, Miss Rothschild, Mr. Steege, Mr. VanHof; Lecturer Nash

MAJOR—A minimum of 30 credits in English. Courses must include the equivalent of English 51 or 55 and 52 or 56. Also 101, 102, 131, 210, and one of the following: 151, 152, 161, or 205.

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 transcript.

A minimum of 15 credits in English beyond the introductory courses constitutes a minor. English 51 or 55, 52 or 56, either 101 or 102, 131, and one advanced course in English literature must be included.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN ENGLISH†

For Undergraduates

0. FUNDAMENTALS OF WRITING. Sem. 1. Cr. 0. Instruction and practice in sentence elements and basic paragraph construction for those students who need additional work in these fundamentals before proceeding to the course in exposition and argument.

2. FRESHMAN COMPOSITION. Sem. 1. Cr. 3. A course in the writing of expository prose, with particular attention to the writing of the research paper and papers of critical analysis. Prerequisite: English 1. This course is not open to beginning freshmen. It will not be offered after the Fall Semester 1971-1972.

5. EXPOSITION AND ARGUMENT. Each sem. 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. (Not open to students who have had Freshman Composition 1 or 2.) All students entering the University as freshmen will be required to take an examination in the fundamentals of English usage. Those who do not pass this examination will be required to take English 0 before enrolling in this course.

25. LITERARY STUDIES. Sem. 2. Cr. 4. A study of representative poems, plays, and short fiction, both classical and modern, with emphasis upon understanding and enjoying literature through the basic techniques of critical analysis. Prerequisite: English 5.

51. SURVEY OF ENGLISH LITERATURE. Each sem. Cr. 3. A survey of literature from the Old English Period to the beginning of the Pre-Romantic Period. Prerequisite: English 2.

52. SURVEY OF ENGLISH LITERATURE. Each sem. Cr. 3. A survey of literature from the beginning of the Pre-Romantic Period to the twentieth century. Prerequisite: English 2.

55. INTRODUCTION TO WORLD LITERATURE. Each sem. Cr. 3. A study of selected masterpieces of the literature of the Western World from ancient times through the Renaissance. Prerequisite: English 2.

†For courses given in Christ College, see page 230 of this Bulletin.
56. INTRODUCTION TO WORLD LITERATURE. Each sem. Cr. 3. A study of selected masterpieces of the literature of the Western World from the neoclassical period to the present. Prerequisite: English 2.

NOTICE: Except in certain authorized cases, no student will be admitted to any of the following courses unless he has completed English 51 or 55 and 52 or 56 and has received the permission of the chairman of the department to enter the course.

101. AMERICAN LITERATURE. Each sem. Cr. 3. A survey of the prose, poetry, and drama in American literature from the beginning to the Civil War.

102. AMERICAN LITERATURE. Each sem. Cr. 3. A survey of the prose, poetry, and drama of American literature from the Civil War to the present day.

122. CREATIVE WRITING. Sem. 2. Cr. 3. A workshop in the various techniques of writing poetry and short fiction. English majors, as well as other students, may take this course on an S/U basis.

131. ADVANCED COMPOSITION. Each sem. Cr. 3. An advanced course in the writing of the various kinds of English prose, not including fiction.

141. HISTORY OF THE ENGLISH LANGUAGE. Each sem. Cr. 3. An introduction to the development of modern English from Indo-European with emphasis upon structure and vocabulary.

142. MODERN ENGLISH GRAMMAR. Each sem. Cr. 3. An introduction to the recent developments in grammar such as structural linguistics and transformational grammar.

145. DEVELOPMENT OF ENGLISH DRAMA. Sem. 1. Cr. 3. A course in the development of English drama from 900 to 1800. Approximately a dozen plays typical of the various phases of English dramatic development before 1800 are studied.

151. THE ROMANTIC MOVEMENT. Sem. 1. Cr. 3. A study of the poetry of Wordsworth, Coleridge, Byron, Shelley, Keats, and some minor poets. Some of the prose of the period will be considered incidentally.

152. VICTORIAN LITERATURE. Sem. 2. Cr. 3. A study of the major poetry and some of the prose of the Victorian period.

156. THE NOVEL. Sem. 1. Cr. 3. A study of representative English novels of the eighteenth and nineteenth centuries, with discussion of the social background.

161. RENAISSANCE LITERATURE. Sem. 2. Cr. 3. A study of the prose and non-dramatic poetry of Renaissance English Literature.

174. LITERARY CRITICISM. Sem. 2. Cr. 3. A study of the principles of literary criticism from the theoretical and practical rather than from the historical point of view.

178. LITERATURE FOR CHILDREN. Each sem. Cr. 3. A survey by genres of distinguished contemporary literature for children and an introduction to the many bibliographical tools, with the emphasis on developing evaluative, critical attitudes. Required of students who intend to become teachers in elementary schools. This course may not be counted toward a major or minor in English. Prerequisite: senior standing or consent of the chairman of the department.

180. GENERAL STUDIES IN ENGLISH. Each sem. Cr. 3. A study of a specific theme or topic in literature (e.g., The Hero in Literature) or in the relationship between literature and another discipline (e.g., Politics and the Novel). This course is especially designed to fulfill the general education requirement of an upper-division liberal arts course. Prerequisite: junior or senior standing.
187. **PRO-SEMINAR IN ENGLISH.** Each sem. Cr. 3. A pro-seminar primarily for senior English majors providing in-depth study of a designated topic in English or American literature to be determined by the instructor. Enrollment limited to fifteen students. Admission by consent of the chairman of the department.

191. **THE TEACHING OF ENGLISH.** Each sem. Cr. 2. A study of the methods of teaching English in secondary schools (See Education 191.) Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in this department.

**For Undergraduates and Graduates**

203. **LITERATURE FOR YOUNG ADULTS.** Each sem. Cr. 3. A survey by genres of distinguished contemporary literature for adolescents and an introduction to the many bibliographical tools, with the emphasis on developing evaluative, critical attitudes. Recommended for teachers in secondary schools and for students who intend to become teachers. This course may be counted toward a teaching major or minor in English, but not toward an undergraduate academic major or minor. Prerequisite: senior standing or consent of the chairman of the department.

205. **EIGHTEENTH CENTURY LITERATURE.** Sem. 1. Cr. 3. A study of literature of the Age of Pope and the Age of Johnson other than that of the drama and the novel.

210. **SHAKESPEARE.** Each sem. Cr. 3. A careful study of about eight of the most important plays, with more rapid reading of others.

215. **Milton.** Sem. 2. Cr. 3. Some of the major writings of Milton, both poetry and prose, will be studied in relation to the religious, moral, and political issues of seventeenth-century England.

217. **MODERN DRAMA.** Sem. 2. Cr. 3. A study of approximately a dozen plays typical of the various phases of the development of British and American drama since the beginning of the Romantic Movement.

218. **MODERN FICTION.** Sem. 2. Cr. 3. A study of representative works of the most important British and American novelists of the twentieth century.

219. **TWENTIETH CENTURY POETRY.** Sem. 1. Cr. 3. Lectures and readings covering some forerunners of the modern schools and the most characteristic works of a number of important contemporary American and British poets.

222. **INTRODUCTION TO LINGUISTICS.** Sem. 1. Cr. 3. A general introduction to the theory and methodology of linguistics. The course will include descriptive and historical linguistics, basic notions of grammatical theory, and a limited exploration of some of the relations of linguistics to other branches of knowledge. The presentation of general principles will be supplemented by practical problems in linguistic analysis.

225. **CHAUCER.** Sem. 1. Cr. 3. This course aims to give the student an understanding and appreciation of some of the major works of Chaucer.

**For Graduates**

303. **PROBLEMS 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.
305. **Analysis and Criticism.** Cr. 2. A course designed to teach the methods of analysis and criticism required in other graduate-level courses in English. Works of each major genre (poetry, fiction, and drama) will be analyzed and evaluated according to principles accepted in the various schools of criticism.

307. **The Structure of Modern English.** Cr. 3. An analysis of the structure of the spoken and written English of today.

310. **Wordsworth and Coleridge.** Cr. 3. A study of the major works of Wordsworth and Coleridge with special emphasis upon their theories and practices and upon the heritage of their critical theory.

311. **Tennyson and Browning.** Cr. 3. A study of the more important poems of Tennyson and Browning.

315. **Shakespearian Tragedy.** Cr. 3. An intensive study of the five great tragedies of Shakespeare: *Hamlet, Othello, King Lear, Macbeth,* and *Antony and Cleopatra.*

317. **Poetry of the Renaissance.** Cr. 3. An intensive study of selected works of three outstanding poets of the English Renaissance: Edmund Spenser, John Donne, and Ben Jonson.

320. **Melville, Whitman, and Twain.** Cr. 3. A detailed study of the most important works of these three major American writers of the nineteenth century.

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 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 History 326.) Cr. 2. A study of some of the more 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.

**JOURNALISM**

Courses in journalism may not be counted toward a major or minor in English.

**Minor**—A minor in journalism consists of 14 credit hours which must be earned in the following courses: English 71, 72, 73; Speech 92, 153.

**Courses in Journalism**

*For Undergraduates*

71. **News Writing.** Each sem. 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 2.

72. **News Editing.** Sem. 2. 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: English 71.

73. **Introduction to Mass Media.** Sem. 1. Cr. 3. A course in the history, development, and organization of the mass media. Analysis and evaluation of the performance of the media and of their relationships with society and government. Examination of the canons of journalism. Discussion of the problems of libel, slander, and censorship. Prerequisite: English 2.
THE DEPARTMENT OF FOREIGN LANGUAGES

Associate Professor Helms (Chairman); Professors Moulton, Must, and Reinke; Associate Professors Crumpacker, H. Falkenstein, and H. Peters; Assistant Professors S. Baeppler*, Brent, J. Peters**, and Petersen; Mr. Cilo, Mr. Ewald, Mrs. Kaplan, Mrs. Ochoa, Mr. Schwarz, Miss Stephan***, Miss Timmel, Miss Toledo; Visiting Lecturers B. Falkenstein and Melka. Mr. Olsen, Director of Language Laboratory

LEVELS OF PROFICIENCY—The interpretation of the goals which should be accomplished by the study of a foreign language varies according to the academic purposes of the discipline which a student pursues.

A department or a liberal arts division may indicate that a certain level of proficiency is recommended or required.

The following are guidelines to interpretation of the levels of proficiency cited by departmental and divisional recommendations and requirements:

Level I—Rudiments of the language.
Level II—Ability to read with the assistance of a dictionary.
Level III—Ability to read with the occasional assistance of a dictionary, and, in the case of the modern languages, a basic oral ability.
Level IV—Ability to read the language, and, in the case of the modern languages, sufficient oral ability to maintain a sustained conversation, as well as a developing, basic writing ability.

CREDIT BY EXAMINATION—College credit by examination may be achieved for courses numbered 20 or 30 by any student, provided that he 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.

COURSES IN THE GENERAL EDUCATION PROGRAM—In addition to its regular courses in classical and modern foreign languages, the Department teaches the following courses in English in support of the general education program of the University.

Courses for the Literature and Fine Arts Requirement are:

Foreign Languages 50. TOPICS IN THE CLASSICS. (Greek and Latin.) Cr. 3. Study of a selected form or aspect of classical literature. Open only to juniors and seniors who are not majoring in a foreign language.

Foreign Languages 55. TOPICS IN FOREIGN LITERATURE. Cr. 3. Study of a selected form or aspect of modern literature. Open only to juniors and seniors who are not majoring in a foreign language.

Courses for the General Studies Requirement are:

Foreign Languages 100-105. GENERAL STUDIES IN FOREIGN LITERATURE IN TRANSLATION. Cr. 3. Study of a selected form or aspect of classical or modern literature. Team teaching. Open only to juniors and seniors who do not have a major within the area of the Humanities and Fine Arts.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department and all students planning to teach French, German, or Spanish

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must have their schedules approved by the chairman of the department at the beginning of each semester.

**FRENCH**

**MAJOR**—A minimum of 20 credits in French beyond French 30. Courses must include French 105, 106, 111, 112, and six additional credits in French literature. (For the plan of study option, a student will be expected to take at least 24 credits in French beyond French 30.)

In addition all majors are strongly urged to attain a proficiency equivalent to French 30 in a second 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 transcript.

A minimum of 9 credits beyond French 30 constitutes a minor in French.

**COURSES IN FRENCH**

*For Undergraduates*

1. **FIRST SEMESTER FRENCH.** Cr. 3. Study of pronunciation by means of phonetic symbols. Grammar taught inductively, with conversation and dictation; daily written work. Laboratory fee, $5.00. (Not offered after 1971-1972 Summer Session.)

2. **SECOND SEMESTER FRENCH.** Sem. 1. Cr. 3. A continuation of French 1. Prerequisite: French 1 or equivalent. Laboratory fee, $5.00. (Not offered after Fall Semester 1971-1972.)

10. **FIRST SEMESTER FRENCH.** Each sem. Cr. 4. Course designed to give the student a foundation in the essentials of the subject. 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.

15°. **REFRESHER COURSE IN FIRST SEMESTER FRENCH.** 7 weeks. Cr. 0.

20. **SECOND SEMESTER FRENCH.** Each sem. Cr. 4. A continuation of French 10 with emphasis upon the finer points of the subject. Prerequisite: French 10 or equivalent. Laboratory fee, $5.00.

25°. **REFRESHER COURSE IN SECOND SEMESTER FRENCH.** 7 weeks. Cr. 0.

30. **INTERMEDIATE FRENCH.** Each sem. Cr. 4. A continuation of French 20. Prerequisite: French 20 or equivalent.

35. **REFRESHER COURSE IN INTERMEDIATE FRENCH.** 7 weeks. Cr. 0.

53. **THIRD SEMESTER FRENCH.** Each sem. Cr. 3. Systematic review of grammar, reading of modern authors, discussion, and composition. Prerequisite: French 2 or equivalent. (Not offered after 1971-1972.)

54. **FOURTH SEMESTER FRENCH.** Each sem. Cr. 3. A continuation of French 53, with readings from several centuries. Prerequisite: French 53 or equivalent. (Not offered after Fall Semester 1972-1973.)

55. **CULTURAL READINGS ON FRENCH TOPICS.** Cr. 3. Subjects such as the History of the French Theater, Rabelais, the French Symbolists. Discussion and papers. No knowledge of French required. May not be counted toward a major or a minor in French. Prerequisite: junior standing or consent of the instructor.

100. **FRENCH LITERATURE IN TRANSLATION.** Cr. 3. Study of topics such as French Thinkers, Modern Novelists, Medieval Literature. No knowledge of French required. May not be counted toward a major or a minor in French. Prerequisite: junior standing or consent of the instructor.

*Laboratory fee, $5.00.*
103. **French Phonetics.** Either sem. Cr. 3. A study of the principles of French phonetics with special emphasis upon the difficulties encountered by American students with much practical training in the laboratory. Prerequisite: French 30 or equivalent.

105. **French Literature of the Sixteenth and Seventeenth Centuries.** Either sem. Cr. 4. Prerequisite: French 30 or equivalent.

106. **French Literature of the Eighteenth and Nineteenth Centuries.** Either sem. Cr. 4. Prerequisite: French 30 or equivalent.

111. (Formerly 113.) **French Composition and Conversation.** Each sem. Cr. 3. Written composition with emphasis on the use of idioms. Conversation related to topics of current interest. Special attention to problems of individual students. Prerequisite: French 30 or equivalent.

112. **Advanced French Composition and Conversation.** Each sem. Cr. 3. A continuation of French 111. Prerequisites: French 111 and/or consent of the instructor.

115. **French Civilization.** Sem. 2. Cr. 3. Civilization of France from earliest times to the present. Prerequisite: facility in both written and oral French.

190. **Directed Reading in French.** Either sem. Cr. 1-3. Intended for advanced students capable of doing independent study in French language and literature. Prerequisite: 18 credit hours of college French.

191. **The Teaching of Foreign Languages.** Either sem. 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.

*For Undergraduates and Graduates*

**German**

Major—A minimum of 20 credits in German beyond German 30. (For the plan of study option a student will be expected to take at least 24 credits in German beyond German 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 transcript.

A minimum of 9 credits beyond German 30 constitutes a minor in German.

**The Walther M. Miller Memorial Prize**—See page 55 for details.

**Courses in German**

*For Undergraduates*

1. **First Semester German.** Cr. 3. A course designed to give the student primarily an elementary reading and speaking knowledge of German. Laboratory fee, $5.00. (Not offered after 1971-1972 Summer Session.)

2. **Second Semester German.** Cr. 3. A continuation of German 1. An accelerated section (Honors), covering two semesters' work, is provided for students recommended by the staff. Prerequisite: German 1 or permission of the chairman of the department. Laboratory fee, $5.00. (Not offered after Fall Semester 1971-1972.)
10. FIRST SEMESTER GERMAN. Each sem. Cr. 4. A course designed to
give the student a foundation in 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.

15*. REFRESHER COURSE IN FIRST SEMESTER GERMAN. 7 weeks. Cr. 0.

20. SECOND SEMESTER GERMAN. Each sem. Cr. 4. A continuation of
German 10. Prerequisite: German 10 or 15 or equivalent. Laboratory fee, $5.00.

25*. REFRESHER COURSE IN SECOND SEMESTER GERMAN. 7 weeks. Cr. 0.

30. INTERMEDIATE GERMAN. Each sem. Cr. 4. Reading and discussion of
German literature on the intermediate level, review of German grammar. Pre-
requisite: German 20 or 25 or equivalent. Laboratory fee, $5.00.

35. REFRESHER COURSE IN INTERMEDIATE GERMAN. 7 weeks. Cr. 0.

53. THIRD SEMESTER GERMAN. Each sem. Cr. 3. Intermediate German.
Readings from modern prose writers and the classical poets, a review of German
grammar, practice in writing and speaking German, and reports on outside
reading. An accelerated section (Honors), covering two semesters' work, is
provided for students recommended by the staff. Prerequisite: German 2 or
permission of the chairman of the department. (Not offered after 1971-1972.)

54. FOURTH SEMESTER GERMAN. Cr. 3. A continuation of German 53.
Prerequisite: German 53 or equivalent (Not offered after Fall Semester 1971-
1972.)

101. GERMAN PROSE IN TRANSLATION. Cr. 3. No knowledge of German
required. May not be counted toward a major or a minor in German. Pre-
requisite: junior standing or consent of the instructor.

108. MASTERPIECES OF GERMAN LITERATURE. Each sem. Cr. 4. A system-
atic approach to literature. Reading and discussion of one tragedy of the
eighteenth or nineteenth century, one comedy, one Novelle, and selections from
various types of poetry. Prerequisite: German 30 or 35 or equivalent.

110. (Formerly 113.) GERMAN COMPOSITION AND CONVERSATION. 7 weeks.
Each sem. Cr. 2. Review of grammar; introduction to various types of written
and oral German. Prerequisite: German 30 or 35 or equivalent.

111. (Formerly 114.) GERMAN COMPOSITION AND CONVERSATION. 7 weeks.
Each sem. Cr. 2. A continuation of 110 with work of increased difficulty.
Prerequisite: German 110 or equivalent.

112. (Formerly 152.) ADVANCED GERMAN COMPOSITION AND CONVERSATION.
Cr. 4. A course intended primarily for students who plan to teach German or
do graduate work in German. Writing, stylistics, and presentation of academic
papers. Prerequisite: German 111 or equivalent.

125. THE GERMAN LYRIC. 7 weeks. Cr. 2. A survey of German lyric
verse from its beginning to modern times. Class reading, lectures, independent
reading and phonograph recordings. Prerequisite: German 101 or 110 or consent
of the chairman of the department.

126. THE GERMAN "NOVELLE". 7 weeks. Cr. 2. Systematic and historical
study of the Novelle. Class reading and discussion of representative Novellen;
lectures, independent reading, and class reports. Prerequisite: German 101 or
110 or consent of the chairman of the department.

131. THE GERMAN DRAMA. Either sem. Cr. 4. Development of the Ger-
man Drama from its beginning to modern times. Reading of representative
plays of each period, lectures, and discussions. Prerequisite: German 101 or
110 or equivalent.

153. HISTORY OF GERMAN LITERATURE TO 1700. Either sem. Cr. 4.
Seminar: discussions, lectures, readings. Prerequisite: German 101 or 110 or
equivalent.

*Laboratory fee, $5.00.
154. EIGHTEENTH-CENTURY GERMAN LITERATURE (exclusive of Goethe and Schiller). 7 weeks. Cr. 2. Seminar: discussions, lectures, readings. Prerequisite: German 101 or 110 or equivalent.

155. GOETHE AND SCHILLER. Either sem. Cr. 4. Class reading and discussion, lectures, independent reading, and class reports. Prerequisite: German 131 or 153 or 154 or consent of the chairman of the department.

156. NINETEENTH-CENTURY GERMAN LITERATURE. Either sem. Cr. 4. Seminar: discussions, lectures, readings. Prerequisite: German 131 or 153 or 154 or consent of the chairman of the department.

158. TWENTIETH-CENTURY GERMAN LITERATURE. Either sem. Cr. 4. Prerequisite: German 156 or consent of the chairman of the department.

170. HISTORY OF THE GERMAN LANGUAGE. Either sem. Cr. 4. A survey of the development of modern German from Proto-Germanic. Prerequisite: German 101 or 110.

190. INDEPENDENT STUDIES IN GERMAN. Each sem. Cr. 1-4. Intended for seniors capable of doing independent study in German language and literature. Research paper required. Prerequisite: 20 credit hours of college German.

191. THE TEACHING OF FOREIGN LANGUAGES. Either sem. Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.

For Undergraduates and Graduates

200. GERMAN CIVILIZATION. Either sem. Cr. 3-4. An historical survey of the German cultural heritage in the fields of history, philosophy, religion, sociology, language, and the fine arts. Prerequisite: 18 credit hours of college German.

205. TWENTIETH-CENTURY GERMAN LITERATURE. Either sem. Cr. 3. Prerequisite: 18 semester credit hours of college German.

THE CLASSICS

MAJOR—A minimum of 16 credits in Greek and 12 credits in Latin beyond Latin 30.

Students planning to take a major in the Classics are strongly urged to attain a proficiency equivalent to Course 30 in at least one modern language, to take courses in ancient History and ancient Philosophy, and as many courses in English and foreign literature as possible.

GREEK

MAJOR—A minimum of 24 credits in Greek.

Students planning to take a major in Greek are strongly urged to attain a proficiency equivalent to Course 30 in at least one modern language, to take courses in ancient History and ancient Philosophy, and as many courses in English and foreign literature as possible.

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 transcript.

A minimum of 16 credits in Greek constitutes a minor.

COURSES IN GREEK

For Undergraduates

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. Laboratory 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. Laboratory fee, $5.00.


50. **Classical Mythology.** Cr. 3. Survey of Greek and Roman myths and their influence on modern literature and art. No knowledge of Greek or Latin required. May not be counted toward a major or minor in Greek or Latin. Prerequisite: junior standing or consent of the instructor.

50. **Greek Civilization.** Cr. 3. The cultural history of Greece from the Mycenaean Age through the Graeco-Roman Period, with emphasis on art and architecture. Slide lectures and discussions. Knowledge of Greek not required. May not be counted toward a major or minor in Greek. Prerequisite: junior standing or consent of the instructor.

53. **Intermediate Greek.** Sem. 1. Cr. 3. Readings from Xenophon's *Anabasis* or other classical Greek literature followed by study of selections from the Greek New Testament. Composition. Prerequisite: Greek 2 or equivalent. (Not offered after Fall Semester 1971-1972.)

56. **Intermediate Greek: Plato.** Sem. 2. Cr. 3. Reading of the *Apology* and *Crito* with study of the personality of Socrates. Prerequisite: Greek 53 or equivalent. (Not offered after 1971-1972.)

**NOTE:** Unless otherwise stated, the prerequisite for each of the following courses is Greek 30 or equivalent.

102. **Greek Classics in Translation.** Cr. 3. Greek literature from Homer through Aristotle. Lectures and readings. Knowledge of Greek not required. May not be counted toward a major or minor in Greek. Prerequisite: junior standing or consent of the instructor.

103. **Plato.** Sem. 1. Cr. 2-4. Reading of representative dialogues. Study of Plato as philosopher and of the personality of Socrates.

104. **Homer.** Sem. 2. Cr. 2-4. Selections from the *Iliad* and *Odyssey*. Study of the literary qualities of the early epic and of life in the Heroic Age.

105. **Greek Drama.** Sem. 1. Cr. 2-4. Selected plays of Aeschylus, Sophocles, and Euripides, with supplementary lectures on the Greek theater.

106. **Hellenistic Greek.** Sem. 2. Cr. 4. Readings from the Greek Septuagint and subsequent Hellenistic literature.

190; **Directed Reading in Greek.** Either sem. Cr. 1-4. Intended for seniors capable of doing independent study in Greek language and literature. Scholarly paper required. Prerequisite: 20 semester hours of college Greek or equivalent.

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**HEBREW**

**Courses in Hebrew**

*For Undergraduates*

10. **First Semester Hebrew.** Sem. 1. Cr. 4. Elements of Hebrew grammar and reading of prose sections of the Old Testament. (Offered in alternate years.) Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in Hebrew.

20. **Second Semester Hebrew.** Sem. 2. Cr. 4. Selected reading of Old Testament prose and poetry, Hebrew inscriptive material, and the Qumran scrolls, with special attention to syntax. (Offered in alternate years.) Laboratory fee, $5.00.
LATIN

MAJOR—A minimum of 20 credits in Latin beyond Latin 30.

Students planning to take a major in Latin are strongly urged to attain a proficiency equivalent to Course 30 in at least one modern language, to take courses in ancient History and ancient Philosophy, and as many courses in English and foreign literature as possible.

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 transcript.

A minimum of 9 credits beyond Latin 30 constitutes a minor in Latin.

COURSES IN LATIN

For Undergraduates

10. FIRST SEMESTER LATIN. Sem. 1. Cr. 4. Study of the fundamentals aimed at an early acquisition of a reading knowledge of Latin. Laboratory 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. Either sem. Cr. 4. A continuation of Latin 10, followed by study of easy selections from Latin prose authors. Prerequisite: Latin 10 or equivalent. Laboratory fee, $5.00.

30. INTERMEDIATE LATIN. Either sem. Cr. 4. Introduction to Latin epic poetry; readings from the Aeneid of Vergil and the Metamorphoses of Ovid. Prerequisite: Latin 20 or equivalent.

40. CLASSICAL DERIVATIVES. Cr. 3. Analysis of English vocabulary, including scientific terms, derived from Latin and Greek. No knowledge of either Classical language required. May not be counted toward a major or minor in Latin or Greek. Prerequisite: junior standing or consent of the instructor.

OR

50. ROMAN CIVILIZATION. Cr. 3. 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. Knowledge of Latin not required. May not be counted toward a major or minor in Latin. Prerequisite: junior standing or consent of the instructor.

53. INTERMEDIATE LATIN. Sem. 1. Cr. 3. Reading and study of selections of moderate difficulty from Caesar, Cicero, or other Latin authors. Prerequisite: Latin 2 or equivalent. (Not offered after Fall Semester 1971-1972.)

54. INTERMEDIATE LATIN: VERGIL. Sem. 2. Cr. 3. Introduction to Latin epic poetry. Several books of the Aeneid will be read and interpreted. Prerequisite: Latin 53 or equivalent. (Not offered after 1971-1972.)

NOTE: Unless otherwise stated, the prerequisite for each of the following courses is Latin 30 or equivalent.

103. LATIN CLASSICS IN TRANSLATION. Cr. 3. Latin literature from its earliest Republican beginnings through the Silver Age of the Roman Empire. Lectures and readings. Knowledge of Latin not required. May not be counted toward a major or minor in Latin. Prerequisite: junior standing or consent of the instructor.

105. ROMAN PHILOSOPHY. Sem. 1. Cr. 2-4. Study of representative essays of Cicero and of selections from the De Rerum Natura of Lucretius.

106. LATIN LYRIC AND ELEGIAIC POETRY. Sem. 2. Cr. 2-4. Roman society in the last years of the Republic and in the Augustan Age as reflected in Catullus, Horace, Tibullus, and Propertius.
107. **ROMAN HISTORIANS.** Sem. 1. Cr. 2-4. Selections from the works of Nepos, Sallust, Livy, and Tacitus; study of Roman historiography.


125. **LATIN COMPOSITION.** Sem. 1. Cr. 2-4. Latin writing of moderate difficulty, including translation into Latin of passages of connected English prose; review of grammar and syntax.

150. **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 seniors capable of doing independent study in Latin language and literature. Scholarly paper required. Prerequisite: 20 semester hours of college Latin or consent of the instructor.

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 transcript.

A minimum of 9 credits beyond Russian 30 constitutes a minor in Russian.

**COURSES IN RUSSIAN**

*For Undergraduates*

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.

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.

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.

53. **THIRD SEMESTER RUSSIAN.** Sem. 1. Cr. 3. Grammar review, reading of Russian and Soviet cultural material, oral and written reports. Prerequisite: Russian 2 or equivalent. (Not offered after Fall Semester 1971-1972.)

54. **FOURTH SEMESTER RUSSIAN.** Sem. 2. Cr. 3. A continuation of Russian 53, including reading from work of pre-Soviet authors. Prerequisite: Russian 53 or equivalent. (Not offered after 1971-1972.)

55. **RUSSIAN CIVILIZATION.** Cr. 3. Survey of major trends and influences in Russia and the Soviet Union. Knowledge of Russian not required. May not be counted toward a minor in Russian. Prerequisite: junior standing or consent of the instructor.

104. **RUSSIAN CLASSICS IN TRANSLATION.** Sem. 2. Cr. 4. Study of development of the novel in Russia from Pushkin to Solzhenitsyn. Knowledge of Russian not required. May not be counted toward a minor in Russian. Prerequisite: junior standing or consent of the instructor.
NOTE: The prerequisite for each of the following courses is Russian 30 or equivalent.

113. RUSSIAN COMPOSITION AND CONVERSATION. Sem. 1. Cr. 3. Advanced study of Russian grammar. Written and oral reports. Conversation based on contemporary situations. Prerequisite: Russian 54 or equivalent. Alternates with Russian 153.

114. RUSSIAN COMPOSITION AND CONVERSATION. Sem. 2. Cr. 3. A continuation of Russian 113. Prerequisite: Russian 113 or equivalent. Alternates with Russian 154.

153. NINETEENTH-CENTURY RUSSIAN LITERATURE. Sem. 1. Cr. 3. A study of nineteenth-century Russian literary trends through representative works of Pushkin, Lermontov, Gogol, Turgenev, and Dostoevsky. Prerequisite: Russian 54 or equivalent. Alternates with Russian 113.

154. LATE RUSSIAN AND EARLY SOVIET LITERATURE. Sem. 2. 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 54 or equivalent. Alternates with Russian 114.

SPANISH

MAJOR—A minimum of 20 credits beyond Spanish 30. Courses must include 111, 120, one course in civilization and one literature course numbered above 120.

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 transcript.

A minimum of 9 credits above Spanish 30 constitutes a minor in Spanish. Spanish 111, 120, and one course in civilization must be included.

COURSES IN SPANISH

For Undergraduates

1. FIRST SEMESTER SPANISH. Cr. 3. An introduction to the study of the Spanish language with emphasis on grammar and vocabulary-building. Laboratory fee, $5.00. (Not offered after 1971-1972 Summer Session.)

2. SECOND SEMESTER SPANISH. Cr. 3. A continuation of Spanish 1 with a continued emphasis on grammar and a beginning of self-expression in written Spanish. Prerequisite: Spanish 1 or equivalent. Laboratory fee, $5.00. (Not offered after Fall Semester 1971-1972.)

10. FIRST SEMESTER SPANISH. Each sem. Cr. 4. An elementary course in the Spanish language in which the student will be expected to learn rudimentary Spanish grammar, basic reading skills, general elements of Hispanic culture, and the ability to speak and write simple sentences. 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.

20. SECOND SEMESTER SPANISH. Each sem. Cr. 4. A course which completes the presentation of basic Spanish grammar and culture, and 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 1 or equivalent.

25*. REFRESHER COURSE IN SECOND SEMESTER SPANISH. 7 weeks. Cr. 0.

*Laboratory fee, $5.00.
30. **Intermediate Spanish.** Each sem. 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 2 or equivalent.

35. **Refresher Course in Intermediate Spanish.** 7 weeks. Cr. 0.

53. **Third Semester Spanish.** Each sem. Cr. 3. Intermediate Spanish. Detailed reading of cultural material, continued composition, and a beginning of oral self-expression. Prerequisite: Spanish 2 or equivalent. (Not offered after 1971-1972.)

54. **Fourth Semester Spanish.** Each sem. Cr. 3. Intermediate Spanish. A continuation of Spanish 53 with an increased emphasis on self-expression and conversation. Prerequisite: Spanish 53 or equivalent. (Not offered after Fall Semester 1972-1973.)

105. **Spanish Literature in Translation.** Cr. 3. No knowledge of Spanish required. May not be counted toward a major or minor in Spanish. Prerequisite: junior standing or consent of the instructor.

111. **Spanish Composition and Conversation.** Each sem. Cr. 4. A perfection of speaking and writing skills in the Spanish language. Prerequisite: Spanish 30 or equivalent.

113. **Spanish for Social Workers.** Cr. 2. A short course designed to deal with the Spanish language in vocabulary situations encountered by social workers. Prerequisite: Spanish 111 or equivalent.

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 or equivalent.

130. **Spanish Civilization.** Cr. 3-4. A course intended to further the student's knowledge of the varied elements of Spanish culture. Lectures and individual oral participation in Spanish. Prerequisite: Spanish 111 or equivalent.

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 or equivalent.

140. **The Spanish Language in Theory and Practice.** Cr. 3-4. The presentation of basic Spanish philology, phonetics, and linguistics, together with additional practice in oral and written skills. Prerequisite: Spanish 111 or equivalent.

**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. These courses may be offered for two credits as a short course or for three or four credits as semester-long courses consistent with the demands of the specific area to be studied. 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.

190. **Directed Reading in Spanish.** Either sem. Cr. 1-3. Intended for advanced 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.** Either sem. Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.

*For Undergraduates and Graduates*

200. **Topics in Contemporary Spanish Literature.** Cr. 2-4. Selected areas of study concerning individual genres, authors, movements, or aspects of contemporary Spanish literature. May be repeated, see note above.
THE DEPARTMENT OF GEOGRAPHY

Professor Kallay (Chairman); Professors A. H. Meyer and Strietelmeier; Associate Professors Buls, Kiefer, Kowitz, and A. Rechlin; Miss Cumminiskey

Valparaiso University, with more than 35,000 maps, is one of the map depositories of the Army Map Service, from which the department currently receives and files thousands of country or regional maps of all continents.

Geography courses in the department yield social science credit; courses 41, 42, and 44 give natural science credit.

**MAJOR**—A minimum of 30 credits in Geography. Courses must include 41, 42 or 44, 51, 52, 189, and 199.

Students contemplating graduate or professional work in geography are encouraged to take 35 or more hours in the department. Also they are expected to enroll in the following technical courses: 188, 190, 196, and 198.

It is recommended that professional geography majors select such courses from the following cognate subjects as will most closely correlate with their program of geographic concentration: biology, government, history, mathematics, and sociology.

**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 transcript.

A minimum of 18 credits in Geography constitutes a minor. Geography 41, 42 or 44, 51 and 52 must be included.

**THE VALPARAISO UNIVERSITY-INDIANA UNIVERSITY NORTHWEST GEOGRAPHY AND GEOLOGY ASSOCIATION (Major in Geology).** See page 129 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 chairman of the department at the beginning of each semester.

**COURSES IN PHYSICAL GEOGRAPHY (Offering Natural Science Credit)**

**For Undergraduates**

41. **Geomorphology.** Each sem. 2+4, Cr. 4. An introduction to the surface features of the earth. This course is designed to aid the general student in appreciating the meaning of earth features, as well as to supply basic study of landforms for students majoring or minoring in the field of geography. Laboratory and field studies. Laboratory fee and field trip fee, $10.00.

42. **Regional Geomorphology of the United States.** Sem. 2. 2+4, Cr. 4. A treatment of the fundamental principles of physiographical, stratigraphical, structural, dynamical, and historical geology; consideration of the theoretical phases, practical applications, and historical development of the science. Laboratory and field studies. Prerequisite: Geography 41. Laboratory fee, $10.00.
44. **Meteorology and Climatology.** Each sem. 2+4, Cr. 4. A study of the structure and functions of the atmosphere. Laboratory exercises supplement lectures in the treatment of air mass analysis, weather maps and forecasting, and patterns of climate. Laboratory fee, $5.00. No prerequisite.

## Courses in Geography

### For Undergraduates

#### 51. Environmental Systems. Each sem. Cr. 3 or 4. An integration of relevant subject matter of humanities, the social sciences, and the natural sciences in the environmental perspective. For the additional hour of credit students must successfully complete a program of extra work under the direction of the instructor. Open to students of all disciplines.

#### 52. Regional Analysis. Each sem. Cr. 3 or 4. World population and human occupancy forms are spatially analyzed and appraised in the perspective of those elements of the environmental systems with which they are most functionally interrelated. For the additional hour of credit students must successfully complete a program of extra work under the direction of the instructor. Prerequisite: Geography 51 or consent of the instructor.

#### 64. Economic and Commercial Geography. Sem. 2. Cr. 3. A study of agricultural and industrial production in relation to environmental factors and international interdependence. Also a treatment of the geographic bases for interregional and international trade, centers and routes of trade. Not open to students who have had Geography 151 or 156. No prerequisite.

#### 68. Conservational Geography. Each sem. Cr. 3. The course treats of the current social and economic problems arising from the wasteful exploitation of our natural resources. Among the topics considered are: the indispensability of soils and minerals, forests, waters, and wildlife to community and national wellbeing; the practical application of geographic principles and technique toward the elimination of wasteful and inefficient methods of utilizing such resources; and the part that regional planning plays in the program of developing a sound economy of land use. Prerequisites: six hours in geography, junior standing, or enrollment in teacher training program.

#### 125. Anglo-America. Cr. 3 or 4. A regional treatment of Anglo-America which is topically oriented. Covered are such topics as urbanization, industrialization, agriculture, poverty, and population migration. The students analyze maps and census statistics in the search for regional generalizations. Open to students who have completed six credit hours in geography, and to Upper-Division students majoring in any of the other social sciences.

#### 131-139. 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 national and international regions will be offered. A regional topic such as Latin America, Europe, Africa, Asia, Soviet Union, Near East, and Australia-Oceania will be offered. Open to students who have completed six hours in geography, and to Upper-Division students majoring in any of the other social sciences.

#### 151. Agricultural Geography. Cr. 2. An advanced study of the geographic distribution of the major crops of the world, especially of the United States, in relation to physical and social environments and food requirements. Special attention is given to crop ecology. Prerequisites: 10 hours in geography or 6 hours in geography and 6 hours in economics.

#### 156. Manufactural Geography. Cr. 2. An advanced study of the geographic distribution of the major manufacturing industries of the world, especially those of the United States, in relation to the location of raw materials, power, labor, transportation facilities, markets, and the strategy of regional
position in time of war. Prerequisites: 10 hours in geography and physical geography, or 6 hours in geography and 6 hours in economics.

185. POLITICAL GEOGRAPHY. Cr. 2. An investigation of political problems of selected regions or nations in terms of the material and ethnic factors of the environment which are considered essential in understanding the development of civilization. Patterns of population and land utilization, natural resources, the economic interdependence of nations, international trade, and geo-political problems of the United Nations are type topics serving as the geographic basis for discussions and exercise work. Prerequisites: 10 credit hours in geography and physical geography, or 6 hours in geography and 6 hours in history, government, economics, or sociology.

188. GEOGRAPHIC ANALYSIS. Cr. 3. A course designed to teach the techniques of data collection and quantitative analysis. Prerequisite: 15 credit hours in geography.

189. CARTOGRAPHY. 0+6, Cr. 3. An introduction to cartographic techniques, compilation, construction, and reproduction. Required of geography majors. Prerequisite: junior standing. Laboratory fee, $5.00.

190. ENVIRONMENTAL DATA. Cr. 3. A laboratory course designed to acquaint the student with the various types and sources of environmental information. Data pertaining to the physical environment will be emphasized. Laboratory exercises cover such topics as topographic maps, soil maps, geologic maps, aerial photographs, remote sensor imagery, weather records, and records from air and water quality monitoring stations. The basic techniques for gathering the environmental data will be discussed and field experiments will be conducted. No prerequisites, open to juniors and seniors.

192. URBAN GEOGRAPHY. Cr. 3. A course treating urban settlements as distinct geographic units. Topics which will be covered include the history of urban settlement in the United States, the theory of urban development, internal urban morphology and transportation, economic base, and classification of cities. Special emphasis will be placed on Central Place Theory. Prerequisite: 10 credit hours in geography.

193. URBAN AND REGIONAL PLANNING. Cr. 3. A course treating of the general nature, purposes, objectives, techniques, and organization of modern community planning for the promotion of social and economic well-being. In this course students will spend one afternoon per week for seven weeks with the Lake-Porter County Regional Transportation and Planning Commission in Highland, Indiana. This cooperative arrangement will enable students to participate in land-use surveys, transportation improvements, population, economic and employment surveys. Prerequisite: junior or senior standing.

195. GEOGRAPHIC PROBLEMS. Cr. 3. A seminar on contemporary social, economic, and political-military issues based on student self-selected topics. Designed to develop student initiative in learning how to analyze, speak, and write geographically, the course is so structured that members of the class are given the opportunity to comment weekly on the progress of each student's project in the matter of geographic relevance. Type topics deal with the geographic aspects of national conflict, population explosion, urban sprawl, industrial-transportation complexes, underdeveloped or maladjusted urban or rural landscapes, racial tensions, environmental pollution and other health hazards. Prerequisites: 12 credit hours in geography and permission of the chairman of the department. May involve a limited amount of field work.

196. SEMINAR IN CURRENT THEMES IN GEOGRAPHY. Sem. 1. Cr. 3. This course is designed to examine current spatial problems from the geographic point of view. A different theme will be selected for each time the course is offered. Such topics as rural planning, ghetto and ethnic communities, pollution, and environmental perception will be considered. Prerequisites: senior major and permission of the instructor. May involve field work.
THE COLLEGE OF ARTS AND SCIENCES

198. Geographic Writing. Cr. 3. A review of the best examples of geographic writing and an introduction to the techniques of scholarly writing in the field of geography. Prerequisite: limited to juniors and seniors with a minimum of 20 hours in geography, inclusive of current semester registrations.

199. The Philosophy and Profession of Geography. Sem. 1. Cr. 3. A pro-seminar course treating of the nature and technique of geographic discipline, and the application of geographic training to various professional pursuits, such as teaching, business, planning, and government service. Prerequisite: limited to juniors and seniors with a minimum of 20 hours in geography, inclusive of current semester registrations.

For Undergraduates and Graduates

200. European Geographic Problems. Cr. 3. A study of the reorganization of the political, economic, and social patterns of Europe in the light of the 20th century attempt to unify Europe's fragmented nationalism.

202. Environs. Cr. 3. An integrated study of environment of man. Interrelated ecosystems of human life are analyzed and appraised in the context of the total global environmental system, with a focus on environmental qualities. Earth phenomena and problems are seen and resolved in the twofold perspective of the impact of environment on man and the impact of man on the environment. Treated in specific regional settings, environmental quality as here projected is assessed and enhanced through community and regional planning with the ultimate goal of establishing a sound geographic national land use policy. Oriented to serve both the general and specific educational functions of the University curricula, the scope and flexibility of this course allow for a wide latitude of independent study projects. Prerequisite: consent of the chairman of the department.

205. Historical Geography of the United States. Cr. 2. A regional treatment of the exploration, colonization, territorial expansion, migration, transportation, settlement, and economic development of our country, integrated in relation to the physical framework of the environment in which and with which American regional patterns of culture have come to be established. The course is primarily designed for students majoring in one or another of the social sciences. Prerequisites: 10 credit hours in geography, or 6 hours in geography and 6 hours in history, government, economics, or sociology, or consent of the chairman of the department.

210. 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. From newspapers and periodicals students clip articles for critical review and rewrite them in the form of chorograms. Prerequisites: 10 credit hours in geography or 6 hours in geography and 6 hours in history, government, economics, or sociology, or consent of the chairman of the department.

215. Area Field Study. 0+4, Cr. 2. A laboratory and field course designed to give insight into the nature and purpose of geographic field work. It includes such topics as mapping techniques, physical and cultural pattern analysis, rural and urban functions, and an intensive study of a selected area. Prerequisite: consent of the chairman of the department.

For Graduates

305. Geographic Thought. Cr. 3. A conceptual approach to the content and contributions of geography in general education and in world society. Geographic facts and ideas are developed under the following categories: nature and scope of geographic thought; comparative Western and non-Western cultures, differentiated in space and time; the geographic facts and ways of life; procedures and methods of identifying geographic investigation of human phenomenology; the Christian ethic of earth stewardship; geography as planning aforesight;
teacher preparation in the earth sciences, including application of geographic understanding of world problems in specifically assigned projects. Prerequisite: consent of the instructor.

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 man. Prerequisite: consent of the instructor.

315. Non-Western Cultural Geography. Cr. 3. An environmental appraisal of the cultural regional patterns of Asia and Africa. Prerequisite: consent of the instructor.

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. It is based on an intensive review of the literature with special attention given to those books and documents that have played a vital role in shaping American thinking with respect to resource use. Prerequisite: consent of the instructor.
THE DEPARTMENT OF GOVERNMENT

Assistant Professor Trost (Chairman); Professors Huegli, Mundinger, and Wehling*; Assistant Professor Balkema; Mr. Carew, Mr. Krueckenberg**

MAJOR—A minimum of 30 credits in Government. Courses must include Government 1, 2, 44, 53, 54, and 199.

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 transcript.

A minimum of 18 credits in Government constitutes a minor. Government 1, 2, 44, and either 53 or 54 must be included.

APPROVAL OF SCHEDULES—Students taking a major or a minor in this department must have their schedules approved by the chairman of the department at the beginning of each semester.

For information concerning the Washington Semester Program see page 128. For information concerning the Urban Affairs Semester Program see page 128. For information concerning the Semester on the United Nations see page 129.

COURSES IN GOVERNMENT

For Undergraduates

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.

10. 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 government.)

41. STATE AND LOCAL POLITICS IN THE UNITED STATES. Each sem. Cr. 3. Comparative analysis of state and local political systems in the United States. Emphasis to be placed on the contemporary role of states and localities in the development and implementation of public policies.

44. 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. POLITICAL PHILOSOPHY I. Sem. 1. Cr. 3. The ideas of the major political philosophers of the classical and modern periods are compared and contrasted.

54. POLITICAL PHILOSOPHY II. Sem. 2. Cr. 3. A continuation of Political Philosophy I.

65. INTERNATIONAL RELATIONS I. Sem. 1. Cr. 3. The fundamentals of international politics and international organization, particularly the United Nations and its specialized agencies.

**On study leave, Fall Semester, 1971-1972.
66. INTERNATIONAL RELATIONS II. Sem. 2. Cr. 3. A continuation of Government 65. Prerequisite: Government 65.

NOTE: The following courses are not open to sophomores, except 158:

111. THE DIPLOMACY OF THE UNITED STATES. Sem. 1. Cr. 3. A study of the development of American diplomatic problems and practices, including materials on the Foreign Service. Prerequisite: Government 2. (Given in alternate years.)

112. AMERICAN FOREIGN POLICY. Sem. 2. Cr. 3. A study of contemporary American foreign policy including its implementation and execution. Prerequisite: Government 2. (Given in alternate years.)

153. POLITICS OF INDUSTRIALIZED STATES. Sem. 2. Cr. 3. A study of political systems in the Western industrialized world. Attention will primarily be directed at Western and Eastern Europe, alternately. Prerequisite: Government 44 or consent of the chairman of the department.

154. POLITICS OF DEVELOPING STATES. Each sem. Cr. 3. A study of the governments and political problems of selected newly-independent, underdeveloped states. Areas given in a semester will vary across Africa, Latin America, the Middle East, and the Far East. Prerequisite: Government 44 or consent of the chairman of the department.

158. PROBLEMS IN POLITICAL PHILOSOPHY. Each sem. Cr. 3. The study of a specific problem(s) or philosopher(s) in modern political philosophy. Prerequisites: Government 53 and 54 or consent of the chairman of the department.

162. PUBLIC ADMINISTRATION. Sem. 1. Cr. 3. An introduction to the basic principles of administrative organization and management in government. Prerequisites: Government 2 and junior standing.

191. THE TEACHING OF SOCIAL STUDIES. Sem. 1. Cr. 2. (See Education 191.) 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 government.)

193. GENERAL STUDIES IN POLITICAL SCIENCE. Each sem. Cr. 3. Topics to be considered will come primarily from policy areas in political science and inter-disciplinary offerings (e.g., The Political Novel).

195. INDEPENDENT STUDY IN POLITICAL SCIENCE. Each sem. Cr. 1-3. Individual research on a specific problem in one of the fields of government under the supervision of a member of the departmental staff. A written report is required. Prerequisites: Major with junior standing and consent of the chairman of the department.

199. RESEARCH IN POLITICAL SCIENCE. Each sem. Cr. 2. Student is to bring to bear a special topical interest and substantive methodological insights received during the course of his major in the department, on a research paper. Paper should be seen as the culminating effort of the major. Prerequisite: major with senior standing.

For Undergraduates and Graduates

203. 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 cooperation with the Community Research Center. Prerequisite: Government 41 or consent of the chairman of the department.

205. AMERICAN POLITICAL PARTIES. Either sem. Cr. 3. An intensive study of the origin, history, composition, policies, functions, and activities of political parties in the United States, including the evolution and operation of the party system. Prerequisite: Government 2 or consent of the chairman of the department.
206. THE CONSTITUTION OF THE UNITED STATES. Sem. 2. Cr. 3. An examination of great constitutional issues, decided and undecided, in the light of the contemporary interpretation of the Constitution. Prerequisite: Government 2 or consent of the chairman of the department.

207. CHURCH AND STATE. Sem. 1. Cr. 2. An examination into some of the ramifications of church-state relationships in the United States. Prerequisite: senior standing. (Given in alternate years.)

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.

230. INTERNATIONAL LAW. Sem. 2. Cr. 3. The nature, origin, and development of law among the states of the world. Leading principles illustrated with cases. Prerequisite: senior standing. (Given in alternate years.)

For Graduates

305. THE LEGISLATIVE PROCESS. Cr. 2. A detailed study of the legislative machinery set up in the Constitution of the United States for determining and declaring the will of the people as the machinery functions within the political party system.

312. PROBLEMS OF AMERICAN FOREIGN POLICY. Cr. 3. Specific contemporary problems of American foreign relations are considered in detail from various angles.

320. SEMINAR IN GOVERNMENT. Cr. 3. Individual reports in specific areas of the discipline presented for class discussion and evaluation.

WASHINGTON SEMESTER PROGRAM


56.411. SEMINARS IN UNITED STATES GOVERNMENTAL PROCESSES II. Sem. 2. Identical with 56.410.

56.412. INDIVIDUAL PROJECTS. Sem. 2. Analytical reports prepared under the guidance and counseling of the academic directors of the Program.

SEMESTER ON THE UNITED NATIONS


133. RESEARCH SEMINAR ON INTERNATIONAL ORGANIZATION. Each sem. Cr. 3. Selected topics and problems concerning the United Nations. The preparation of research projects designed to develop research techniques appropriate to international affairs. Conducted at the Drew University facilities in New York, New York.
THE DEPARTMENT OF HISTORY

Professor Boyd (Chairman); Professors W. E. Bauer*, Gahl, Kautz, Krodel, and Startt; Associate Professors Berg, Engelder, and Schaefer; Assistant Professor Kohlhoff**; Mr. Schoppa***; Visiting Instructor McKenna

MAJOR—A minimum of 30 credits in History. Courses must include History 1, 2, 170, and two seminars, one of which must involve a major paper.

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 transcript.

A minimum of 18 credits in History constitutes a minor. History 1 and 2 must be included.

CONCENTRATION AREAS—For students whose field of interest lies in the Humanities, it is recommended that they attain Level IV proficiency in a foreign language, 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, government, 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 chairman 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.

COURSES IN HISTORY

For Undergraduates

GENERAL SURVEY COURSES

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.

51. **Latin American Civilization II.** Cr. 3. A survey of the republics from independence to the present, relating contemporary Latin American problems to underdevelopment and unrest in the current world scene.

60. **East Asian Civilization I.** Cr. 3. A survey of the traditional cultures of China, Japan, and Korea prior to the impact of Western civilization.

61. **East Asian Civilization II.** Cr. 3. A survey of the modern history of China, Japan, and Korea, with emphasis on the meeting of East and West and the struggle for development and self-expression in our times.

**Studies in European History**

Prerequisites: History 1 and 2 or consent of the chairman of the department.

101. **Ancient World I.** Cr. 3. A study of the Eastern Mediterranean peoples from the earliest times to Alexander the Great.

102. **Ancient World II.** Cr. 3. A study of Hellenistic and Roman civilization to the 5th century A.D.

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.

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.

**Studies in United States History**

Prerequisites: History 30 and 31 or consent of the chairman of the department.

134. **Modern America I 1877-1929.** 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.

**Studies in Non-Western History**

Prerequisite: the appropriate general survey or consent of the chairman of the department.

160. **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 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 Departmental Offerings**

Prerequisite: consent of the chairman of the department.

170. **The Study of History.** Cr. 2. A half-semester course required of history majors in their junior year, examining the nature of history as a discipline and sampling varieties of historical writing.

175. **Seminars in History.** Cr. 2 or 3. 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.
Topics in European history might emphasize controversial themes and movements not normally treated in depth in other departmental courses (e.g., Imperialism, contemporary European Thought).

United States history seminars might deal with Constitutional or Diplomatic history, the growth of the West, Social Reform, 20th Century Black history, the urban challenge, or American church history.

Seminars may also involve study programs abroad in a variety of cultural settings.

185. THE AMERICAN EXPERIENCE. Cr. 3. An integrative course for non-majors on the junior-senior level designed to explore selected topics in the American past that bear upon present problems. The course content, as in the case of seminars, will depend upon instructor and student interest, and may be taught by one or more instructors, or in collaboration with other departments.

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.

For Undergraduates and Graduates

STUDIES IN EUROPEAN HISTORY

Prerequisites: History 1 and 2 or consent of the chairman of the department.

205. THE HIGH MIDDLE AGES. Cr. 3. A study of political and social development, of cultural and intellectual flowering of Christian Europe from the 10th century to the 14th.

206. RENAISSANCE AND REFORMATION. Cr. 3. A study of the emergence of modern Europe through events of the Italian and Northern Renaissance, and the impact of the Protestant Reformation through the 16th century.

210. FRENCH REVOLUTION AND NAPOLEON. Cr. 3. A study of the background, development, and significance of the French Revolution and Napoleonic Era.

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.

216. MODERN EUROPE II 1919-. Cr. 3. A study of Europe emphasizing the troubled years leading to World War II, and the complex changes in European life since 1945.

STUDIES IN UNITED STATES HISTORY

Prerequisites: History 30 and 31 or consent of the chairman of the department.

230. THE COLONIAL ERA 1607-1763. Cr. 3. A study of the history of early America from the first English settlements to the eve of the Revolution.

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.

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.

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.

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.
Prerequisite: the appropriate general survey or consent of the chairman of the department.

250. **History of Mexico.** Cr. 3. A study of the struggle for political, economic, and cultural identity in America's southern neighbor.

**For Graduates**

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, these courses 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, these courses will require a major paper.

340. **Stuart England.** Cr. 3. A concentration upon the religious, political, economic, and social problems of 17th century England, involving 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.

380. **The Interpretation of History.** Cr. 3. The role of interpretation in the study of history with emphasis on major trends and types of historical thought in western culture.
THE DEPARTMENT OF HOME ECONOMICS

Professor Simon (Chairman); Professor Leoschke; Assistant Professor Lerud; Mrs. Manning, Miss Martin

DEGREE—Completion of the degree requirements of the College of Arts and Sciences with a major in Home Economics leads to the degree of Bachelor of Science in Home Economics (B. S. in H. E.).

MAJOR—A minimum of 32 credits in Home Economics. Courses must include Home Economics 5, 7, 8, 11, 140, and 195. Also Psychology 51S, Sociology 101, Chemistry 43 and 44, Biology 50, Speech 40, and 4 credits in Art must be taken. Students preparing for careers in the field of dietetics must substitute Biology 110 for the 4 credits of Art. Other students (except Education minors) may substitute General Engineering 4 (Elementary Graphics) for 2 of the 4 credits in Art.

A major in Home Economics is permitted to take a maximum of 12 credits in the College of Business Administration. Students in the Home Economics-Merchandising Program will be required to take additional courses in the College of Business Administration; these students should consult with the Chairman of the Department of Home Economics regarding their plan of 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 transcript.

A minimum of 13 credits in Home Economics constitutes a minor. Home Economics 7 and 8 must be included. Students must also take Sociology 101.

PREPARATION FOR SERVICES CONCERNED WITH FAMILY RELATIONS AND HUMAN DEVELOPMENT—A student majoring in this program may prepare herself for areas concerned with Human Development and Family Relations by completing a program outlined for the student by the chairman of the department. Such a student should enter this program not later than the second semester of the sophomore year. This program is available to students with a background in Biology, Economics, Home Economics, Psychology, and/or Sociology. See page 129 for further details on the Merrill-Palmer Program.

APPROVAL OF SCHEDULES—All students taking a major or minor in this department and all students planning to teach home economics must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN HOME ECONOMICS

For Undergraduates

*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 man's food supply.

*Students who are not majoring in Home Economics may take this course on an S/U grading basis.
6. Food for the Family. Each sem. 1+4, Cr. 3. Basic principles underlying the preparation of foods with emphasis on the ability to judge quality in foods. Laboratory fee, $20.00.

7. Elementary Nutrition. (Also offered as Physical Education 48.) Each sem. 3+0, Cr. 3. A study of the principles of nutrition. Evaluation and planning of diets for the child, the adult, and the family.

8. Art in Daily Living. Each sem. 2+2, Cr. 3. A study of the principles of art in the home, with emphasis on the development of good taste in costume, home furnishing, and creative design. Laboratory work in applied art problems. Laboratory fee, $5.00.

11. Clothing and Textiles I. Sem. 2. 3+0, Cr. 3. Significance of clothing and textiles in relation to social, psychological, and economic factors. Special emphasis given to the factors involved in clothing selection.

12. Clothing and Textiles II. Each sem. 1+6, Cr. 3. Basic principles of clothing construction and design. Evaluation of various methods of construction in relation to style, fabric characteristics, and end use. Laboratory fee, $5.00.

45. Human Nutrition. Each sem. 3+0, Cr. 3. A study of the body chemistry as related to the utilization of nutrients. Prerequisite: Chemistry 44.

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. Prerequisite: Home Economics or admittance by special examination. Laboratory fee, $20.00. (Given upon sufficient demand.)

52. Clothing Construction III. Sem. 1. 1+6, Cr. 3. Clothing construction, with emphasis upon tailoring. A field trip is made to a suit and coat factory. Prerequisite: Home Economics 12 or consent of the chairman of the department. Laboratory fee, $5.00.

65. Physiological Chemistry. (Also offered as Chemistry 55.) Sem. 2. 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 toward a major or minor in chemistry. Prerequisite: Chemistry 44.

101. Family Health. Sem. 1. 2+0, Cr. 2. A study of health concerns as they relate to the total sociological needs of the Family. Practical home nursing techniques and processes are also included. Prerequisite: consent of the chairman of the department.

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 trips to a furniture factory and centers for interior design. Prerequisite: Home Economics 8 or consent of the chairman of the department.

104. Advanced Textiles. Sem. 2. 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; consumer problems in selection and care of textiles in home furnishings and wearing apparel; a survey of the historic and aesthetic significance of textile design. Prerequisites: Home Economics 11 and junior standing. Laboratory fee, $5.00.

*Students who are not majoring in Home Economics may take these courses on an S/U grading basis.
114. Family Housing. 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 considered. Prerequisite: junior standing.

115. Consumer Economics. Sem. 1. 3+0, Cr. 3. The aim is to prepare a background for intelligent use of resources through a study of buying practices, government action, and social and psychological factors. Judging of commodities and current selling practices in the market place will be studied.

125. Experimental Foods. Sem. 1. 1+4, Cr. 3. A course in the physical chemistry of food processing. Prerequisites: Home Economics 6 and Chemistry 44. Laboratory fee, $15.00. (Given in alternate years.)

*131. Clothing Design. Sem. 2. 1+4, Cr. 3. Fundamentals of flat-pattern designing and of draping on personal dress forms. Prerequisite: Home Economics 12. Laboratory fee, $5.00.

140. Child Care and Development. (Also offered as Physical Education 116.) 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 preschool child in a family situation is assigned for 2 hours per week and a field trip is made to the Nursery School, The University of Chicago. Prerequisites: Psychology 51 and junior standing.

149. Quantity Food Service. Each sem. 2+4, Cr. 3. A study of quality food production and service including menu planning, work planning, and food preparation. Consideration is given to the equipment, the storage facilities, and the safety controls necessary for efficient institutional food service. Prerequisite: Home Economics 51. (Given upon sufficient demand.)

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, sanitation, and safety. Prerequisites: Home Economics 149 and Accounting 11.

152. Home Management. 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.

*162. Advanced Nutrition. Sem. 2. Cr. 2. A study of human nutritional requirements from the prenatal period to old age. Techniques for the metabolic balance study and evaluation of nutritional status are also included. Prerequisites: Home Economics 45, Chemistry 44, and Biology 115.


191. The Teaching of Home Economics. Sem. 2. Cr. 2. (See Education 191.) A study of the methods of teaching home economics in the secondary schools. This course may not be counted toward a major or minor in this department. Prerequisite: admission to Supervised Teaching. Laboratory fee, $5.00.

195-196. Pro-Seminar in Home Economics. Each sem. Cr. 1 or 2. A study of special problems in home economics for seniors majoring in the department. A written report and an oral presentation are required.

*Students who are not majoring in Home Economics may take these courses on an S/U grading basis.
MAJOR—A minimum of 28 credits in Mathematics with no more than 16 credits in courses numbered below 100. Courses must include 75, 76, and 77; 78 or 104; at least 4 credits in abstract algebra (110, 111, 114); at least 3 credits in analysis (175, 177, 180, 184, or 220); and at least 2 credits in seminar or independent study (193, 194, or 196).

Mathematics majors who will not complete a second major or a teaching minor in another department must, at the beginning of their junior year, submit for approval by the chairman of this department a detailed program for their field of concentration. This program should also 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).

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.

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 transcript.

A minimum of 12 credits in Mathematics constitutes a minor. Credits cannot include more than 8 credits from courses 35, 36, 75, or 76, and must include credits from two courses other than these.

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 chairman of the department (or his representative) at the beginning of each semester.

PLACEMENT EXAMINATION—All students who expect to take mathematics 31, 33, 35, 36, 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) Elementary functions. Students who pass this part will receive two credits for Mathematics 33. Such a student will normally have an exceptional background in high school mathematics. (3) Trigonometry. Only students who wish to enroll in Mathematics 75 will take this. Any such student who does not exhibit proficiency in trigonometry will be required to do additional work to remove this deficiency.

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COURSES IN MATHEMATICS

For Undergraduates

10†. ALGEBRA. Sem. 1. 7 weeks. Cr. 0. A remedial course in the fundamentals of algebra. Topics include: equations, exponents and 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.

31. MATRIX ALGEBRA. Sem. 1. 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: proficiency in algebra.

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 a study of the elementary functions. Topics include relations, inequalities, functions and their graphs, composition, inverses and their properties; polynomial, exponential, and logarithmic functions. Prerequisite: proficiency in algebra.

35. FINITE MATHEMATICS AND ELEMENTARY FUNCTIONS. Each sem. Cr. 4. A course for students not majoring in mathematics or the physical sciences. Topics include finite probability, elementary matrix theory, linear programming and game theory; relations, inequalities, functions and their graphs; composition, inverses and their properties; polynomial, exponential, and logarithmic functions. Prerequisite: proficiency in algebra.

36. (Formerly Mathematics 52.) 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, differential and integral calculus, and some applications. Prerequisite: Mathematics 33 or 35 or the equivalent.

40†. LABORATORY IN ELEMENTARY MATHEMATICS. Each sem. 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 or 44.

43. ELEMENTARY MATHEMATICS I. Sem. 1. Cr. 4. This course is restricted to students majoring in elementary education. Topics include sets, numeration systems with their historical background, properties of whole numbers, the rational number system, the real number system; elementary number theory; mathematical systems.

44. ELEMENTARY MATHEMATICS II. Sem. 2. Cr. 4. This is a continuation of Elementary Mathematics I. Topics include logic; intuitive geometry, the nonmetric geometry of sets of points, geometric figures in the plane and space; the axiomatic approach. Concepts of algebra, equations, inequalities, graphs, polynomials. Prerequisite: Mathematics 43.

53. FINITE MATHEMATICS AND APPLICATIONS. Sem. 1. Cr. 4. A course for students not majoring in mathematics or the physical sciences. Topics include finite probability, elementary matrix theory, Markov chains, linear programming and game theory, with application to management and the social sciences. Prerequisite: consent of the chairman of the department.

54. STATISTICAL ANALYSIS. Sem. 2. 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 illus-

†Grades of S and U are given for this course.
trations and application of these techniques to the social sciences. This course is not open to any student who has had a first statistics course in any department. Prerequisite: Mathematics 36 or the equivalent.

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 review of set theory, induction and the real number system; functions, inequalities and absolute value; limits, continuity and derivatives; area and integration. Prerequisite: Three years of high school mathematics with proficiency in algebra. Trigonometry is strongly recommended.

76. CALCULUS II. Each sem. Cr. 4. A continuation of Mathematics 75. Additional topics include an introduction to FORTRAN programming and the use of the computer in the study of calculus; additional techniques of integration; exponential, logarithm and inverse trigonometric functions; and polynomial approximations to functions. Prerequisite: Mathematics 75.

77. CALCULUS III. Each sem. Cr. 4. A continuation of Mathematics 76. Additional topics include sequences, series, and improper integrals; vector algebra, calculus of vector-valued functions, and multiple integration. Prerequisite: Mathematics 76.

78. CALCULUS AND DIFFERENTIAL EQUATIONS. Sem. 1. Cr. 4. A continuation of Mathematics 77. Additional topics include linear differential equations and systems of differential equations, multiple integrals, line and surface integrals, applications, and elementary numerical analysis. Prerequisite: Mathematics 77. (Not offered after Fall Semester 1971-1972.)

84. COMPUTER PROGRAMMING AND NUMERICAL COMPUTATION. (Also offered as Economics 107 and Management 102.) Each sem. Cr. 3. The purpose of this course is to acquaint the student with computer programming languages including machine languages FORTRAN, ALGOL, and COBOL. Application of these languages is made to the programming of simple arithmetic and algebraic problems including elementary statistical measures. Prerequisites: Mathematics 36 or the equivalent, plus either a statistics or a mathematics course numbered above 36 or its equivalent. Laboratory fee, $10.00. This course may not be counted toward a major or minor in mathematics.

104. LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS. Each sem. Cr. 4. Topics include: matrices, determinants, and vector spaces; linear transformations; elementary and linear differential equations; numerical and series solutions of differential equations; Laplace transforms. Prerequisite: Mathematics 77.

105. LINEAR ALGEBRA AND MULTIVARIATE CALCULUS. Each sem. Cr. 4. A continuation of Mathematics 104. Topics include eigenvalues and eigenvectors with applications to systems of differential equations; Hermitian and unitary operators, canonical forms; calculus of n-space, line and surface integrals, differential forms, and the theorems of Green and Stokes. Prerequisite: Mathematics 104. (Not offered in 1971-1972.)

110. ALGEBRAIC STRUCTURES. Sem. 1. Cr. 3. A careful study of the foundations of algebra. Topics include: relations, operations, and set algebra; the integers, congruences, and number systems; elementary properties of groups, rings, and fields. Prerequisite: Mathematics 76 or the equivalent. (Not offered after Fall Semester 1971-1972.)

111. LINEAR ALGEBRA. Sem. 2. Cr. 3. Introduction to the theory of matrices over the real and complex numbers. Topics include the algebra of matrices, finite dimensional vector spaces, linear transformations, inner products, eigenvalues and eigenvectors, canonical forms, and determinants. Prerequisite: Mathematics 77 or the equivalent. (Not offered after Spring Semester 1971-1972.)

114. ABSTRACT ALGEBRA I. Each sem. Cr. 4. This course provides an introduction to modern abstract algebra. Topics include: relations, operations, and set algebra; congruences and number systems; properties of groups, rings and fields. Prerequisite: Mathematics 76. (Not offered in 1971-1972.)
115. **Abstract Algebra II**. Sem. 2. Cr. 3. A continuation of Mathematics 114. The contents include Galois theory and more advanced topics from the theories of groups, modules, rings, fields and finite dimensional vector-spaces. Prerequisite: Mathematics 114 and 105. (Offered on sufficient demand. Not offered in 1971-1972.)

145. **Probability and Statistics**. Each sem. Cr. 3 or 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, analysis of variance, and nonparametric statistics. Prerequisite: Mathematics 145.

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, construction problems. Prerequisite: Mathematics 36 or the equivalent.

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: junior standing. Restricted to students who have not previously completed a college mathematics course.

163. **Mathematical Models in the Social Sciences**. Sem. 2. Cr. 3. (Also offered as Management 144.) This course is intended for students with a strong background in Management or the Social Sciences. Topics will be chosen according to the interests of the class. These may include: linear and dynamic programming, queueing theory, learning models, population models, and simulation. Prerequisites: Mathematics 35 and 36 or the equivalent and a first course in statistics from any department.

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. (Given in alternate years. Offered in 1971-1972.)

175. **Elements of Modern Analysis**. Sem. 1. Cr. 3. A careful study of the topology of the real line; continuity, Riemann integration, differentiation and convergence in real n-space. Prerequisite: Mathematics 78. (Not offered after Fall Semester 1971-1972.)

176. **Elements of Modern Analysis**. Sem. 2. Cr. 3. A continuation of Mathematics 175. Prerequisite: Mathematics 175. (Not offered after Spring Semester 1971-1972.)


180. **Applied Mathematics**. Sem. 1. Cr. 3. Elements of vector analysis; power series solutions of differential equations; Bessel and Gamma functions; Legendre polynomials; elliptic integrals. Prerequisite: Mathematics 78. (Not offered after 1971-1972.)
181. Applied Mathematics. Sem. 2. Cr. 3. Fourier series and orthogonal functions; Sturm-Liouville problems; partial differential equations and boundary value problems; operator theory; Green’s function. Prerequisite: Mathematics 180. (Not offered after 1971-1972.)

182. Introduction to Complex Variables. Sem. 2. Cr. 3. Analytic functions; derivatives; power and Laurent series; integrals; residues; conformal mapping; complex inversion formulas; applications to partial differential equations. Prerequisite: Mathematics 78 or 104.

184. Applied Mathematics. Sem. 2. Cr. 4. Orthogonal functions; Bessel and Gamma functions. Legendre polynomials; Sturm-Liouville systems; partial differential equations and boundary value problems; Green’s function; calculus of variations. Prerequisite: Mathematics 105. (Not offered in 1971-1972.)

187. Numerical Analysis. Sem. 1. Cr. 3. Topics from the theory of numerical analysis include: Matrices and matrix algebra and solution of systems of linear equations; curve fitting; numerical solution of differential equations. Prerequisite: Mathematics 78 or 104. (Given in alternate years. Offered in 1971-1972.)

189. Topics in Mathematics. Sem. 2. 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, Differential Geometry, Algebraic Topology, Advanced Numerical Analysis, Partial Differential Equations, or Functional Analysis. Prerequisite: consent of the chairman 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 in mathematics.

193-194. Pro-Seminar in Mathematics. Each sem. Cr. 1. Student presentation and discussion of selected topics in mathematics arising from journal reading and research in special problems. Registration open to juniors and seniors only.

195. Readings in Mathematics. Each sem. Cr. 1, 2, or 3. Students study advanced topics in mathematics under the supervision of a faculty member. Written work is required. Prerequisite: consent of the chairman 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 chairman of the department.

For Undergraduates and Graduates

220. Mathematical Analysis. Sem. 2. Cr. 3. Set nomenclature and set algebra. Real number system as an extension of other number systems. Sentences and equations. Identities, relations, functions, and graphs. Point sets and sequences. Geometric and arithmetic progressions. Limits. Derivatives and integrals. Prerequisite: Mathematics 78 or consent of the chairman of the department. (Not offered after 1971-1972.)

243. Structures of Number Systems. Cr. 3. Vocabulary and symbolism of sets. Language and nature of deductive reasoning. Number theory and numeration systems. Number systems and their properties. Modular number systems and groups. Postulational method and a 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. Fundamentals of Geometry. Cr. 3. Informal and non-metric geometry of sets of points. Geometric figures in the plane and space. Development of precise language, the nature of proof, and structure as exemplified in geometry. 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.
THE DEPARTMENT OF MUSIC

Associate Professor Telschow (Chairman); Professors Gehring, Hoelty-Nickel, Powell, and Wienhorst; Associate Professors Eifrig*, Kroeger, and McCall; Assistant Professors Aller, Fleming, Hannewald, and Sumrall; Visiting Assistant Professor Lehman

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 95 of this bulletin). In addition, he 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 chairman 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 chairman 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 observation of a skilled artist or conductor at work.

DEGREES

The Department of Music offers curricula leading to the following degrees: Bachelor of Arts with a major in Music, Bachelor of Music Education, Bachelor of Music, and Master of Arts in Liberal Studies with a music concentration.

BACHELOR OF ARTS

A candidate for the degree of Bachelor of Arts with a major in music must meet all the general requirements for the Bachelor of Arts degree.

*Director, University Overseas Center, Cambridge, 1971-1972.
MAJOR—A minimum of 36 credits in Music. Courses must include Music 7, 8, 13, 14, 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 principal instrument (in addition to class piano). The student must pass all the performance tests set for him 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 transcript.

A minimum of 18 credits in Music constitutes a minor. Courses must include Music 7, 8, 13, 14, and six credits of applied music, including Class Piano 9 and 10. In addition, the student must pass all performance tests set for him by this department.

BACHELOR OF MUSIC

To be eligible for the degree of Bachelor of Music, a student must complete the required curriculum for his major area of concentration. In addition, he must pass all performance tests set for him by this department. He must earn a total of 134 credit hours for a major in church music and 128 credit hours for a major in composition or applied music. He must have a standing of one (1.0) in all his work (not including ensemble music, for which no quality points are given). The curricula are outlined on page 190.

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.

BACHELOR OF MUSIC EDUCATION

To be eligible for the degree of Bachelor of Music Education, a student must complete the curriculum described on page 192. In addition, he must pass all performance tests set for him by this department. Three areas of concentration are offered the student majoring in Music Education: a vocal concentration, an instrumental concentration, and an area major. The area major is designed for the student who wishes to prepare himself for teaching in both the vocal and instrumental fields. A student must earn a total of 134 credit hours if his area of concentration is either vocal or instrumental, and he must earn a total of 138 credit hours to complete the area major. He must have a standing of one (1.0) in all his work (not including ensemble music, for which no quality points are given).
## A. General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion</td>
<td>9</td>
</tr>
<tr>
<td>Freshman English</td>
<td>4</td>
</tr>
<tr>
<td>Foreign Language (Level I or II)</td>
<td>8</td>
</tr>
<tr>
<td>Literary 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>
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</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 7, 8</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 163</td>
<td>2</td>
</tr>
<tr>
<td>Music Theory 235, 236</td>
<td>6</td>
</tr>
<tr>
<td>Ensemble</td>
<td>8</td>
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</tbody>
</table>

44

2. Other Requirements:

<table>
<thead>
<tr>
<th>Program</th>
<th>Church Music</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal Instrument:</td>
<td>Organ 2</td>
<td>Voice 2</td>
</tr>
<tr>
<td>Choral Conducting 164</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language Diction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pro-Seminar in Pedagogy of Music 203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hymnology 271</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>History of Church Music 274</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Service Playing 175</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Improvisation 241, 242</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Composition</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Piano* (or harpsichord)</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Organ (or harpsichord)</td>
<td>24</td>
<td>8</td>
</tr>
<tr>
<td>Voice (may include Voice Class 39)</td>
<td>4</td>
<td>24</td>
</tr>
<tr>
<td>Principal orchestral instrument.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instrumental classes</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

47 43 12 26

47 43 12 26

C. Electives                                          | 0           | 4           | 15 |

Total required for graduation                        | 134         | 134         | 128 |

*To include Class Piano 9, 10, 11, 12.*
<table>
<thead>
<tr>
<th>Program:</th>
<th>Applied Music</th>
<th>Organ or Harpsichord</th>
<th>Piano</th>
<th>Voice</th>
<th>Orchestral Instrument</th>
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</thead>
<tbody>
<tr>
<td>Principal Instrument:</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choral Conducting 164</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language Diction</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pro-Seminar in Pedagogy of Music 203</td>
<td>2</td>
<td>2</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Hymnology 271</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>History of Church Music 274</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service Playing 175</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Improvisation 241, 242</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Composition</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Piano* (or harpsichord)</td>
<td>8</td>
<td>24</td>
<td>8</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Organ (or harpsichord)</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voice (may include Voice Class 39)</td>
<td></td>
<td></td>
<td></td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Principal orchestral instrument</td>
<td></td>
<td></td>
<td></td>
<td>24</td>
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<tr>
<td>Instrumental classes</td>
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<td>30</td>
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</tbody>
</table>

| | | | | |
| | | 34 | 26 | 36 | 30 |

| C. ELECTIVES | 7 | 15 | 5 | 11 |
| Total required for graduation | 128 | 128 | 128 | 128 |

*To include Class Piano 9, 10, 11, 12.
### A. General Education Requirements:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Religion</td>
<td>9</td>
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<tr>
<td>Freshman English</td>
<td>4</td>
</tr>
<tr>
<td>Literary Studies</td>
<td>4</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>Survey of Music Literature 7, 8</td>
<td>4</td>
</tr>
<tr>
<td>History</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (may include one history course)</td>
<td>9</td>
</tr>
<tr>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
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<tr>
<td>Physical Education</td>
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</table>

### B. Professional Education Requirements:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Principles and General Methods of Teaching in the Secondary Schools 190</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Education 62</td>
<td>3</td>
</tr>
<tr>
<td>Psychological Foundations of Secondary Education 188</td>
<td>4</td>
</tr>
<tr>
<td>High School Music Methods 191</td>
<td>2</td>
</tr>
<tr>
<td>Supervised Teaching 194</td>
<td>7</td>
</tr>
</tbody>
</table>

### C. Music Requirements:

1. Core Curriculum (for all students):

   - Music Theory 13, 14, 63, 64                        | 16      |
   - History of Music 103, 104                         | 8       |
   - Basic Conducting 163                              | 2       |
   - Ensemble                                           | 8       |

2. Other Requirements:

<table>
<thead>
<tr>
<th>Principal Instrument</th>
<th>Choral-general</th>
<th>Instrumental</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Voice</td>
<td>Piano</td>
</tr>
<tr>
<td>Choral Conducting 164</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Inst. Conducting 205</td>
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<td></td>
</tr>
<tr>
<td>Orchestration 162</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elementary School</td>
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<td></td>
</tr>
<tr>
<td>Music Methods 109</td>
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<td>2</td>
</tr>
<tr>
<td>Class Piano, 9, 10, 11, 12</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Piano 100</td>
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<tr>
<td>Organ 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voice (to include</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>Voice Class 39)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principal instrument (string, wind, or percussion)</td>
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<td></td>
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<tr>
<td>Secondary instruments (including at least two instrumental classes)</td>
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</tr>
<tr>
<td>Applied music elective (not in principal instrument)</td>
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<td>4</td>
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<tr>
<td>Total for graduation</td>
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<td>24</td>
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<table>
<thead>
<tr>
<th>Principal Instrument</th>
<th>Total for Graduation</th>
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<tbody>
<tr>
<td></td>
<td>Voice</td>
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<tr>
<td>Area Major</td>
<td>Voice</td>
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<tr>
<td>-----------------------------</td>
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<tr>
<td>Principal Instrument:</td>
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<tr>
<td>Choral Conducting 164</td>
<td>2</td>
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<tr>
<td>Inst. Conducting 205</td>
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<tr>
<td>Orchestration 162</td>
<td>2</td>
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<tr>
<td>Elementary School</td>
<td></td>
</tr>
<tr>
<td>Music Methods 109</td>
<td>2</td>
</tr>
<tr>
<td>Class Piano, 9, 10, 11, 12</td>
<td>4</td>
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<tr>
<td>Piano 100</td>
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<tr>
<td>Organ 100</td>
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<tr>
<td>Voice (to include</td>
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<tr>
<td>Voice Class 39)</td>
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</tr>
<tr>
<td>Principal instrument</td>
<td>—</td>
</tr>
<tr>
<td>(string, wind, or percussion)</td>
<td></td>
</tr>
<tr>
<td>Secondary instruments</td>
<td>6</td>
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<tr>
<td>(including at least two</td>
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<tr>
<td>Applied music elective</td>
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<tr>
<td>(not in principal instrument)</td>
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<tr>
<td>Total for graduation</td>
<td>138</td>
</tr>
</tbody>
</table>
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.

2. **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. Prerequisite: Music 1.


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.)

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+2, 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. Prerequisites: Music 7, 8, and 14.

104. **History and Literature of Music.** Sem. 2. 3+2, Cr. 4. The development of musical thought and literature from the middle of the 17th century to the present. Prerequisite: Music 103.

109. **Elementary School Music Methods.** Sem. 2. Cr. 2. A study of materials, methods of procedure and supervision for primary grades. This course may not be counted toward a major or minor in this department. Prerequisite: Music 14. (Offered in 1971-1972 and in alternate years thereafter.)

162. **Orchestration.** Sem. 1. Cr. 2. The technique of scoring for orchestra and band. Prerequisite: Music 64. (Given in alternate years. Not offered in 1971-1972.)

163. **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.


175. **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.
183. 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. (Given in alternate years. Not offered in 1971-1972.)


191. High School Music Methods. Sem. 1. Cr. 2. Principles of planning, organizing, and teaching the various kinds of music courses and activities in high school (see Education 191). Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in this department.

For Undergraduates and Graduates

201. Pro-Seminar in Music. Sem. 1. Cr. 2 or 3. An intensive study of a limited area in the history or theory of music. This course may be repeated for credit. Prerequisites: Music 64 and 104.

203. 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 chairman of the department. (Offered in 1971-1972 and in alternate years thereafter.)

205. Instrumental Conducting. Sem. 2. Cr. 2. A study of instrumental scores, conducting techniques, and materials. Prerequisite: Music 163.

207. Advanced Choral Conducting. Sem. 1. Cr. 2. A course for school musicians and professional church musicians dealing with advanced problems in choral conducting. Prerequisite: Music 164 or the equivalent.


235. Music Theory. Sem. 1. Cr. 3. A continuation of Music 64 with special emphasis on non-baroque contrapuntal techniques. Prerequisite: Music 64 or the equivalent.

236. Music Theory. Sem. 2. Cr. 3. A continuation of Music 235 with special emphasis on contemporary techniques. Prerequisite: Music 235 or consent of the chairman of the department.

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.


271. Hymnology. Sem. 2. Cr. 2. A study of the Christian hymn from its earliest sources to the present day. Prerequisites: junior standing and consent of the chairman of the department.

274. 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 chairman of the department.

For Graduates

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.
NOTE: Non-music majors who are candidates for degrees in the College of Arts and Sciences are restricted to 16 credits 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.

Forty-five minutes of private instruction and nine hours of practice per week gives three semester hours of credit.

For Undergraduates

100. Each sem. Cr. 1, 2, or 3. Open to all students in the University, including the Evening Division. Beginning students in any medium should usually register for only one credit. Music majors and minors are normally expected to register for two credits except when combining piano or organ with a registration in Class Piano (see below), and when combining voice with a registration in Voice Class 39. Registration for three credits is available only to candidates in the Bachelor of Music program in their principal applied music medium.

Primarily for Graduates

200. Each sem. Cr. 1 or 2. Open to qualified graduate students who have good reason to include such study in their program. Prerequisite: approval of the chairman of the department.

For Graduates

300. Each sem. Cr. 2 or 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 chairman of the department.

Voice Piano Harpsichord (by audition only) Organ (by audition only) Violin Viola Violoncello Bass viol Guitar Flute Oboe Clarinet Bassoon Saxophone Trumpet French horn Trombone Baritone Bass Percussion

COMPOSITION. A program of study dealing creatively with the problems of musical form. Prerequisites: consent of the instructor and the chairman of the department.

B. CLASS INSTRUCTION

9, 10, 11, 12. CLASS PIANO. Each sem. Cr. 1 or 2. 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. Applied music fees are applicable except for music majors. If Class Piano is combined with Piano or Organ 100, only one fee is assessed for both courses.

31. STRINGED INSTRUMENT CLASS. Sem. 1. 0+2, Cr. 1. Violin, viola, cello, and string bass are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments. Laboratory fee, $10.00.
33. **Single-Reed Instrument and Flute Class.** Sem. 1. 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. Laboratory fee, $10.00.

35. **Brass Instrument Class.** Sem. 1. 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. Laboratory fee, $10.00.

37. **Percussion and Double-Reed Instrument Class.** Sem. 2. 0+2, Cr. 1. Oboe, bassoon, and percussion instruments are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments. Laboratory fee, $10.00.

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 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. Credits and grades earned in ensemble music do not give quality points and are not counted in computing the students standing.

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 in some special capacity (such as assistant conductor, sectional leader, or project director) to be determined by the instructor of the ensemble and with the approval of the chairman of the department.

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 chairman of the department. This credit may be earned by participation in the Collegium Musicum.
THE DEPARTMENT OF PHILOSOPHY

Associate Professor Klein (Chairman); Professor Scheimann; Assistant Professor J. Smith

MAJOR—A minimum of 27 credits in Philosophy. Courses must include Philosophy 3, 51, 53, and 127.

A minimum of 30 credit hours in philosophy are required of majors who are preparing to study philosophy in graduate school.

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 transcript.

A minimum of 12 credits in Philosophy constitutes a minor. Courses must include Philosophy 3, 51, and 53. The remaining courses are selected by the student subject to approval of the Department.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN PHILOSOPHY†

For Undergraduates

1. **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.

3. **Logic and Analysis.** Each sem. Cr. 4. This course will be offered as two seven-week sections and is the prerequisite for all courses numbered over 100. The logic section will provide a general introduction to truth-functional analysis and elementary quantification theory. The analysis section will concentrate on logical techniques for critically analyzing philosophical arguments.

51. **History of Philosophy I.** Sem. 1. Cr. 4. A general survey of the great philosophies of the Western World from the Greeks to Thomas Aquinas. At least one hour a week will be devoted to small group discussion of some major documents of the period.

53. **History of Philosophy II.** Sem. 2. Cr. 4. A general survey of the great philosophies of the Western World from Hobbes to the present century. At least one hour a week will be devoted to small group discussion of some of the major documents of the world.

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.

112. **Philosophy of Religion.** Cr. 3. A systematic approach to the analysis of religious beliefs and concepts involved in the major religious traditions.

114. **Philosophy of History.** Cr. 3. A philosophical approach to history as a branch of knowledge through an analysis of theories of history and historical methodology.

121. **Metaphysics.** Cr. 3. A philosophical approach to important metaphysical problems such as ontology, persons, mind-body problem, and appearance and reality.

†For course given in Christ College, see page 230 of this Bulletin.
123. **Contemporary Ethics.** Cr. 3. A study of contemporary ethical and metaethical theories and their application to moral problems.

127. **Epistemology.** Cr. 3. An examination of some topics in traditional and contemporary theories of knowledge such as perception, privacy, 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.

140. **Non-Western Philosophy.** Cr. 3. A general survey of the great philosophies of the Non-Western World. A major part of the semester will be devoted to an analysis of important documents.

142. **Phenomenology.** Cr. 3. An examination of the major works of phenomenologists and their approach to philosophical problems.

144. **Existentialism.** Cr. 3. An examination of the major works of existentialists and their approach to philosophical problems.

146. **Analytic Philosophy.** Cr. 3. An examination of the works of some analytic philosophers and their approach to philosophical problems.

190-191. **Philosophical Topics.** Cr. 3. An examination of the works of one philosopher of importance such as Plato, Aristotle, Kant or Wittgenstein; or of a single philosophical problem such as scientific explanation or the mind-body problem; or of a single philosophical approach such as positivism.

193-194. **Independent Projects.** Cr. 1-3.
THE DEPARTMENT OF PHYSICAL EDUCATION

Assistant Professor Koch (Chairman, Men's Division); Professor E. Bauer; Professor Brown (Chairman, Women's Division); Assistant Professors Amundsen, Betts, Canfield, Colyer, Krause, Lampl, Purden, and B. Weiss; Mr. Winrow, Miss Steele

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 (B.S. in P.E.).

MAJOR—A minimum of 24 credits in Physical Education beyond Physical Education 10.

 Majors must also complete Biology 50 and 115, and Chemistry 43 and 44. (A year of another natural science may be substituted for Chemistry 43 and 44 only with the permission of the chairman of the division.)

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 transcript.

 A minimum of 12 credits in Physical Education in courses numbered above 10 constitutes a minor.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department and all students planning to gain certification in physical education should have their schedules approved by the chairman of the division at the beginning of each semester, beginning with their freshman year.

COURSES IN PHYSICAL EDUCATION

For Undergraduates

NOTE: Two credit hours in physical education earned in courses numbered below 10 are required (except for students majoring in physical education) for any bachelor's degree offered by the University. Not more than four credit hours earned in courses numbered below 10 may be counted toward any degree. Courses 1 and 3 (Women) must be taken by all women students. Courses 4 and 5 (Men) must be taken by all men students. It is strongly recommended that all Freshmen men who are non-swimmers enroll in Course 6.

BEGINNING COURSES FOR MEN

1. PHYSICAL DEVELOPMENT. Each sem. 0+2, Cr. 1. May be taken on S/U grading basis.

2. SOCCER AND WRESTLING. Each sem. 0+2, Cr. 1.

3. TEAM SPORTS. Each sem. 0+2, Cr. 1.

4. TENNIS AND BOWLING. Each sem. 0+2, Cr. 1.

5. BADMINTON AND GOLF. Each sem. 0+2, Cr. 1.

6. BEGINNING SWIMMING. (Non-swimmers only.) Each sem. 0+2, Cr. 1.

7. INTERMEDIATE SWIMMING. Each sem. 0+2, Cr. 1.

8. HYGIENE. Each sem. 1+0, Cr. 1.
BEGINNING COURSES FOR WOMEN

A student is permitted to offer 4 credits of physical education for graduation but these 4 credits must be in different activities.

1. TEAM SPORTS AND FITNESS. Each sem. 0+2, Cr. 1. Conditioning and developmental exercise program combined with team sports. Volleyball, basketball, or field hockey may be selected as the team sport.

2. INDIVIDUAL ACTIVITIES Each sem. 0+2, Cr. 1. Various individual and dual activities are offered: tennis, bowling, golf, badminton, swimming, (beginning and intermediate), synchronized swimming, fencing, modern dance, gymnastics, billiards. Intermediate levels of the activities will be provided when possible. Students may register independently for two offerings within the semester.

3. INDEPENDENT STUDY. Each sem. Cr. 1. A student may select a particular area, skill, or aspect of an activity and plan an individualized program to develop skill in that particular activity.

THE ACTION NATURE OF MAN

The study of man's physical, psychological, sociological development from the perspective of man and action—the significance of movement as a facet of man's development.

PHYSIOLOGICAL-STRUCTURAL NATURE OF MAN

40. THE STRUCTURE AND FUNCTION OF MOVEMENT. Each sem. 3+2, Cr. 4. 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. 3+2, Cr. 4. A study of the effects of stress and injury on the body and the significance of body function in relation to stress.

48. ELEMENTARY NUTRITION. (Also offered as Home Economics 7). Each sem. 3+0, Cr. 3. A study of the principles of nutrition. Evaluation and planning of diets for the child, the adult, and the family.

49. INDEPENDENT STUDY. Each sem. Cr. 1.

127. FIRST AID AND SAFETY. Sem. 1. Cr. 2. A study of the prevention and treatment of injuries, leading to the Standard and Advanced American Red Cross First Aid Certificates. This will be offered as a short course.

PSYCHOLOGICAL-SOCIOLOGICAL NATURE OF MAN


111. PSYCHOLOGY OF ACTION. Sem. 1. Cr. 3. The effects of the action nature of man on his development, learning and behavior. (Not offered in 1971-1972.)

112. MOVEMENT AND LEARNING. Each sem. 2+2, Cr. 3., 3+2, Cr. 4. The study of the place of movement in the life of the child. Ways in which various types of activity can affect the development of the child.

113. THE LEARNING POTENTIALITIES OF THE OUT-OF-DOORS. Sem. 1. 1+2, Cr. 2. This course will be offered as a short course. Learning opportunities as provided by camping and out-door education.

114. SEMINAR IN HEALTH AND PHYSICAL EDUCATION. Sem. 2. Cr. 3. Discussion of current problems and issues in health and physical education.

116. CHILD CARE AND DEVELOPMENT. (Also offered as Home Economics 140.) Sem. 1. 3+2, Cr. 4. Factors affecting the physical, social, mental, and emotional development of young children in the home. Fundamental princi-
ple in the care and guidance of children. Observation of the pre-school child. A field trip is made to the Nursery School, The University of Chicago. Prerequisites: Psychology 51 and junior standing.

117. THE CHILD AND SOCIETY. (Also offered as Social Work 162.) Each sem. Cr. 3. This course discusses the theories of the social and cultural development of the child through family, peer group, school, church, and community. Comparison is made of childhood in American and other cultures. Child welfare movements are studied with emphasis on available social services. This course is required of all social work minors and majors but can be of great value to any adult who personally or professionally will deal with children. Prerequisite: Social Work 108 or consent of the chairman of the department.

118. PSYCHOLOGY OF CHILDHOOD. (Also offered as Psychology 201.) Each sem. Cr. 3. A course which gives the student an understanding of the development and behavior of the child, with emphasis given to analysis of related research. Prerequisite: 6 hours of psychology.

119. INDEPENDENT STUDY. Each sem. Cr. 1.

**PERFORMANCE NATURE OF MAN**

Basic performance and movement

51. (Formerly 84.) INDIVIDUAL AND TEAM ACTIVITIES. Sem. 1. 1+1, Cr. 1.

52. (Formerly 85.) INDIVIDUAL AND TEAM ACTIVITIES. Sem. 2. 1+1, Cr. 1.

53. (Formerly 86.) INDIVIDUAL AND TEAM ACTIVITIES. Sem. 1. 1+1, Cr. 1.

54. (Formerly 87.) INDIVIDUAL AND TEAM ACTIVITIES. Sem. 2. 1+1, Cr. 1.

55. (Formerly 123.) RHYTHMIC GYMNASTICS. Sem. 1. 1+1, Cr. 1. 1+2, Cr. 2. The use of small apparatus and rhythms in gymnastics. The additional credit may be earned by those interested in certification in the elementary school and will involve stunts and tumbling and self testing activities for children.

56. (Formerly 124.) GYMNASTICS. Sem. 2. 1+1, Cr. 1.

59. INDEPENDENT STUDY. Each sem. Cr. 1.

60. (Formerly 91.) OFFICIATING IN WOMEN'S SPORTS. Sem. 1. Cr. 2. Officiating procedures in hockey, soccer, basketball.

61. (Formerly 92.) OFFICIATING IN WOMEN'S SPORTS. Sem. 2. Cr. 2. Officiating procedures in volleyball, gymnastics, softball.

63. (Formerly 128.) SENIOR LIFESAVING. Sem. 1. 1+1, Cr. 1. Analysis and practice of skills in synchronized swimming and lifesaving. This course leads to the American Red Cross Senior Lifesaving Certificate.

64. (Formerly 126.) THEORY AND PRACTICE OF RHYTHM. Sem. 2. 1+2, Cr. 2. Fundamentals of rhythms, child rhythms, folk dance, square dance, and other social recreational activities.

65. (Formerly 130.) MODERN DANCE. Sem. 2. 1+1, Cr. 1. Skills and teaching techniques involved in the modern dance.

67. METHODS AND EVALUATION. Sem. 1. 2+2, Cr. 3. Teaching, organizational methods, evaluation techniques for activities and movement programs in the elementary, junior high, and high school program.

68. PLANNING AND CONDUCTING SCHOOL RELATED ACTIVITIES. Sem. 2. Cr. 3. The organization, conduct, and development of various intra-mural and extra-mural activities: cheerleading, coaching, intra-murals, drill squads, swim clubs, etc.

69. (Formerly 129.) WATER SAFETY INSTRUCTION. Sem. 2. 1+1, Cr. 1. Techniques of teaching swimming and lifesaving. This course leads to the American Red Cross Water Safety Instructor's Certificate. Prerequisite: an American Red Cross Senior Lifesaving Certificate.
89. (Formerly 121.) **Gymnastics and Tumbling.** (Men.) Sem. 1. 2+3, Cr. 3. The theory and analysis of skills and teaching techniques involved in apparatus, stunts, and tumbling. Analysis, interpretation, development of advanced knowledge and skills in various types of movement.

93. (Formerly 146.) **Principles and Practices of Baseball Coaching.** (Men.) Sem. 2. 1+2, Cr. 2. History, rules, fundamentals, and strategy. Lectures, reports, discussions, and practice.

94. (Formerly 148.) **Principles and Practices of Track and Field Coaching.** (Men.) Sem. 2. 1+2, Cr. 2. History, rules, fundamentals, and strategy. Lectures, reports, discussions, and practice.

95. (Formerly 151.) **Principles and Practices of Basketball Coaching.** (Men.) Sem. 1. 1+2, Cr. 2. An analysis of the strengths and weaknesses of widely used offensive and defensive systems; fundamentals, strategy, and coaching problems included.

98. (Formerly 152.) **Principles and Practices of Football Coaching.** (Men.) Sem. 2. 1+2, Cr. 2. An analysis of the strengths and weaknesses of widely used offensive and defensive systems; fundamentals, scouting, and use of motion pictures included.

99. (Formerly 181.) **Tests and Measurements in Health and Physical Education.** Sem. 1. Cr. 3. A study of motor ability tests, sports proficiency tests, health knowledge tests, etc.

191. **The Teaching of Physical Education.** Each sem. Cr. 2. A study of the problems and methods of teaching physical education. (See Education 191.) Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in physical education.

197. **Research in Physical Education.** Each sem. Cr. 1. Investigation of various research techniques and problem design. A research project will be conducted.

**Note:** The following courses will be offered for 1971-1972 but will be phased out of the curriculum as soon as possible.

130. (Formerly 62.) **History and Principles of Physical Education.** Sem. 1. Cr. 2. A study of the history, principles, aims, and objectives of physical education, giving the prospective teacher early in his training some understanding of what is involved in adequate preparation for teaching.

131. (Formerly 97.) **Principles of School Health Programs.** Sem. 1. Cr. 2. A study of school health programs with special emphasis on medical and physical examinations, selection of materials, and the use of these materials by the teacher and other school personnel.

132. (Formerly 106.) **Organization and Administration of Physical Education and Athletics.** Sem. 1. Cr. 2. A study of the organization and administration of curricular and extra-curricular programs of physical education and athletics.

133. (Formerly 171.) **Care and Prevention of Athletic Injuries.** Sem. 1. Cr. 2. Problems in athletic injuries and conditioning. Laboratory work includes the clinical use of physiotherapy equipment, massage, support methods. Prerequisite: Biology 115.
THE DEPARTMENT OF PHYSICS

Professor Manning (Chairman); Professor Shirer; Associate Professor Naumann; Assistant Professors Mangiaracini, Scheiderer, and Yu

MAJOR—A minimum of 30 credits in Physics. Courses must include Physics 70, 73, 75, 110, 111, 121, 122, 193, and 195.

One year of chemistry is strongly recommended. Students preparing for graduate work should also take Physics 106, 107, 130, 207, 210, 211, 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 transcript.

A minimum of 16 credits in Physics constitutes a minor. Physics 110 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 chairman of the department at the beginning of each semester.

COURSES IN PHYSICS

For Undergraduates

42. INTRODUCTORY PHYSICS. Sem. 2. 3+3, Cr. 4. A one-semester survey of physics. It includes a study of mechanics, heat, sound, electricity, and modern physics laboratory work in each of these fields. This course may not be counted toward a major or minor in physics and is limited to those majoring in elementary education. Students are expected to have had high school algebra and plane geometry or the equivalent. Laboratory fee, $10.00. Note: This course may be used to fulfill the natural science general education requirement.

67. CONCEPTS OF PHYSICS. Sem. 1. 3+3, Cr. 4. A course in which the modern interpretations of the fundamental phenomena and laws governing the behavior of the physical universe are discussed. Intended as the basic introduction to physics for both non-science and science majors, this course stresses the logical content and structure of the causal relations between matter and energy rather than their mathematical formulation. Laboratory experiments in mechanics and electromagnetism. Prerequisite: 3 units of high-school mathematics or Mathematics 35. (Mathematics 35 may be taken concurrently.) Laboratory fee, $10.00. Note: This course may be used to fulfill the natural science general education requirement.

68. CONCEPTS OF PHYSICS. Sem. 2. 3+3, Cr. 4. A continuation of Physics 67. Laboratory experiments in wave motion, thermal phenomena, relativity, and atomic structure. Prerequisite: Physics 67. Laboratory fee, $10.00.

69. ACOUSTICS. Sem. 2. 3+2, Cr. 4. A study of the physical nature of sound waves, the production and measurement of sound and physical and psychophysical basis of hearing and music. Laboratory fee, $10.00. Note: This course is basically for those majoring in music and may be used to fulfill the natural science general education requirement.

70. ANALYTICAL MECHANICS. Sem. 1. 3+0, Cr. 3. A course utilizing vectors and the calculus to study the forces and fields of mechanics on a mathematically rigorous basis. Prerequisites: Physics 68 and Mathematics 76, or advanced placement by the chairman of the department.
73. ELECTRICITY AND MAGNETISM. Sem. 2. 3+0, Cr. 3. This course emphasizes the fundamental laws of electricity and magnetism. Maxwell’s equations, dielectric media, magnetic media, and problems of electromagnetic radiation. Vector methods are used. Prerequisite: Physics 70.

75. ELECTRICAL MEASUREMENTS: PHYSICS. Sem. 1. 0+3, Cr. 1. Laboratory training in the use of modern electrical and electronic measuring instruments. The analytical techniques used are similar to those of Physics 70, which is designed to be taken concurrently. Laboratory fee, $10.00.

81-82. DESCRIPTIVE ASTRONOMY. 2+0, Cr. 2. A study of the principles of astronomical observation, the solar system, and the exploration of space with an introduction to the modern conception of our universe and to contemporary theories of the evolution of the stars. Only elementary mathematics is required. These two courses may be used to fulfill the natural science general education requirement.

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. Prerequisite: Physics 81-82. Laboratory fee, $10.00.

106. ELECTRONICS. Sem. 2. 2+3, Cr. 3. A study of electron tubes, transistors, and electronic circuits designed for physical measurements. Laboratory work in tube and transistor characteristics and electronic circuits. Prerequisites: Physics 68 and Mathematics 77. (Mathematics 77 may be taken concurrently.) Laboratory fee, $10.00.

107. PHYSICAL OPTICS. Sem. 1. Cr. 3. A study of electromagnetic radiation, with emphasis on interference, diffraction, dispersion, polarization, absorption, and scattering. Prerequisite: Mathematics 78.

110. INTRODUCTORY MODERN PHYSICS. Sem. 1. 3+0, Cr. 3. An introduction to atomic and nuclear physics. Topics include properties of the electron, scattering theories, special relativity, nuclear structure, neutron physics, accelerators, nuclear energy, and chain reactions. Prerequisite: Mathematics 77. (Mathematics 77 may be taken concurrently.) Laboratory fee, $10.00.

111. INTRODUCTORY MODERN PHYSICS LABORATORY. Sem. 1. 0+3, Cr. 1. This course must be taken concurrently with Physics 110.

121. EXPERIMENTAL PHYSICS. Sem. 1. 0+3, Cr. 1. Experiments in modern physics and radioactivity. A 300kev positive ion accelerator and a scattering chamber are used in this course. Prerequisites: Physics 110 and Mathematics 77. Laboratory fee, $10.00.

122. EXPERIMENTAL PHYSICS. Sem. 2. 0+3, Cr. 1. Students are required to develop the theory in selected experiments in advanced mechanics, optics, heat, spectroscopy, electromagnetism, etc., and perform these experiments. Each student will present an oral report on one of these experiments at the PHYSICS COLLOQUIUM and write reports on the others. Prerequisites: Physics 110 and Mathematics 77. Laboratory fee, $10.00.

130. THERMAL PHYSICS. Sem. 2. 3+0, Cr. 3. A study of heat, thermodynamics, and introductory statistical physics. Prerequisites: Physics 68 and Mathematics 78. (Mathematics 78 may be taken concurrently.)

181. REACTOR PHYSICS. Sem. 2. 3+3, Cr. 4. Neutron and reactor physics for students with physics or engineering backgrounds. Topics include neutron physics, fission, neutron diffusion, neutron moderation, bare homogeneous thermal reactors, reflected reactors, heterogeneous reactors, and an introduction to neutron transport theory. Laboratory work in neutron detection, slowing down and diffusion, subcritical reactor studies, and pulsed neutron methods. Prerequisite: Physics 121. Laboratory fee, $10.00.
191. THE TEACHING OF PHYSICAL SCIENCES. Sem. 1. 1+3, Cr. 2. A study of the methods of teaching physics in secondary schools. Laboratory demonstrations and reference reading; problems relating to laboratory constructions and equipment; standard tests. This course may not be counted toward a major or minor in physics. (See Education 191.) Prerequisite: admission to Supervised Teaching. (Given upon sufficient demand.)

193. PHYSICS COLLOQUIUM. Each sem. Cr. 0. All physics majors except freshmen and sophomores must register for this course.

195-196. SPECIAL PROBLEMS IN PHYSICS. Each sem. Cr. 1 or 2. Each student undertakes a special research problem. A written report and an oral presentation at the PHYSICS COLLOQUIUM are required. Prerequisite: consent of the chairman of the department. Laboratory fee, $10.00 per credit hour.

For Undergraduates and Graduates

207-208. INTRODUCTION TO QUANTUM MECHANICS. Each sem. 3+0, Cr. 3. The fundamental concepts of quantum mechanics are examined with applications to atomic, nuclear and solid state physics. Topics include the Schroedinger equation, perturbation theory, the hydrogen atom, angular momentum and electron spin, identical particles, multielectron atoms, and collision theory. Prerequisites: Physics 110, and Mathematics 180 or consent of the chairman of the department. (Mathematics 180 may be taken concurrently.)

210. THEORETICAL PHYSICS. Sem. 1. 2+0, Cr. 2. Theorems of mathematical physics and applications, including small oscillations, general rotations, and potential theory. Prerequisites: Physics 70 and 73 and Mathematics 78.

211. THEORETICAL PHYSICS. Sem. 2. 2+0, Cr. 2. A continuation of Physics 210 including wave motions, Maxwell's equations, and boundary value problems. Prerequisite: Physics 210.
THE DEPARTMENT OF PSYCHOLOGY

Professor Waldschmidt (Chairman); Associate Professors Berry and Harris; Assistant Professors Ikeda, Karvellas, and Millar

MAJOR—A minimum of 30 credits in Psychology. Courses must include Psychology 51S or 51N, 131 or 203, 132, 150, and two of the following laboratory courses: 135, 136, 137, or 154. For the plan of study option under the Bachelor of Science degree, courses must include Psychology 51N, 131, 132, 150; two of the following laboratory courses: 135, 136, or 137; and 12 credits in the natural sciences and mathematics area outside of Psychology.

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 transcript.

A minimum of 18 credits in Psychology constitutes a minor. Courses 51S or 51N, and 131 or 203 must be included.

APPROVAL OF SCHEDULES—All students taking a major or a minor in psychology must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN PSYCHOLOGY

For Undergraduates

51S. GENERAL PSYCHOLOGY. Each sem. Cr. 3. An introduction to the general field of psychology with special emphasis upon the scientific study of behavior. The final examination is left to the discretion of the instructor. (For Behavioral and Social Science credit only. Not open to students who have taken 51N.)

51N. GENERAL PSYCHOLOGY. Each sem. 3+2, Cr. 4. Identical with Psychology 51S, with the exception that laboratory work is conducted in selected problem areas. (For Natural Science credit only. Not open to students who have taken 51S.) Laboratory fee, $10.00.

NOTE: General Psychology 51S or 51N is a prerequisite for all of the following courses.

123. INDUSTRIAL PSYCHOLOGY. Sem. 2. Cr. 3. This course deals with psychological principles, techniques, and procedures applied to technical and employment problems in business and industry.

126. PSYCHOLOGY OF ADOLESCENCE. Sem. 1. Cr. 3. Analysis of the physical, mental, and emotional development of the adolescent, and the interaction of the adolescent with his social world.

128. SOCIAL PSYCHOLOGY. Sem. 1. Cr. 3. A study of the influence of social interaction in shaping the personality.

130. PSYCHOLOGY OF THE ABNORMAL. Each sem. Cr. 3. An analysis of behavior disorders is made within the framework of psychological theory and research.

131. STATISTICAL METHODS. Each sem. Cr. 4. An introduction to the fundamentals of descriptive and inferential statistics. Selected advanced topics in experimental design and inferential statistics are also covered.
132. PHYSIOLOGICAL PSYCHOLOGY. Each sem. Cr. 3. A study of the structure and functions of the nervous system in relation to perception, learning, and emotion.

135. EXPERIMENTAL PSYCHOLOGY: SENSATION AND PERCEPTION. Sem. 2. 2+4, Cr. 4. A study of the sensory and perceptual processes. Supervised individual experimentation. Prerequisites: Psychology 131 or 203, and 132. Laboratory fee, $10.00.

136. EXPERIMENTAL PSYCHOLOGY: CONDITIONING AND LEARNING. Sem. 1. 2+4, Cr. 4. A study of the basic principles in motivation, conditioning, learning, problem solving, concept formation, language, and higher ideational processes with representative laboratory experiments in selected areas. Supervised individual experimentation. Prerequisites: Psychology 131 or 203. Laboratory fee, $10.00.

137. (Formerly 217.) COMPARATIVE PSYCHOLOGY. (Also offered as Biology 137.) Sem. 2. 2+4, Cr. 4. A psychological approach to the development of behavioral processes in animals and man, with special reference to motivational mechanisms of behavior. Prerequisites: 9 hours selected from biology and psychology. Laboratory fee, $10.00.

150. CONTEMPORARY PSYCHOLOGICAL THEORIES. Sem. 2. Cr. 3. A systematic analysis of contemporary psychological theories and relevant research. Prerequisite: 6 hours of psychology.

152. PSYCHOLOGY OF PERSONALITY. Sem. 2. Cr. 3. An introduction to theoretical problems, methodology, and empirical findings in the area of psychodynamics, with emphasis on social and biological factors in personality and motive development. Prerequisite: Psychology 131 or 203.

154. (Formerly 204.) PSYCHOLOGICAL MEASUREMENT AND EVALUATION. Sem. 1. 3+2, Cr. 4. Principles and methods of psychological measurement and evaluation; statistical analysis, interpretation, and manipulation of measurement data. Construction, administration, and interpretation of various psychological tests will be undertaken. Prerequisite: Psychology 131 or 203. Laboratory fee, $10.00.

160. CURRENT PROBLEMS IN THE BEHAVIORAL SCIENCES. Sem. 2. Cr. 3. Psychological analyses of problems selected jointly by the students and instructors from such areas as current social issues, interdisciplinary problems, and methodological considerations in the behavioral sciences. Prerequisite: 6 hours of psychology or consent of the chairman of the department.

193-194. PRO-SEMINAR IN PSYCHOLOGY. Each sem. Cr. 1. This course is designed to provide more detailed coverage of significant topics within the field than is possible in the regular course offerings of the department. A few such topics, determined jointly by the interests of the faculty and the students, will be discussed each semester. Prerequisite: An advanced laboratory course in psychology.

195-196. 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 chairman of the department. Laboratory fee, $10.00.

For Undergraduates and Graduates

201. PSYCHOLOGY OF CHILDHOOD. (Also offered as Physical Education 118.) Each sem. Cr. 3. A course which gives the student an understanding of the development and behavior of the child, with emphasis given to analysis of related research. Prerequisite: 6 hours of psychology or consent of the chairman of the department.
203. **Statistical Methods for the Behavioral Sciences.** Each sem. Cr. 3. An introduction to the fundamentals of descriptive and inferential statistics. (Not open to students who have taken Psychology 131 or the equivalent.)

208. **The Exceptional Child.** Sem. 1. Cr. 3. A course designed to help the student understand the impact of various physical and mental handicaps on the child's life. Emphasis will be given to the child's personal, social, and intellectual development and to the effect of this growth on the learning process. Prerequisite: Psychology 201 or equivalent.

210. **Methods of Clinical Psychology.** Sem. 2. 2+2, Cr. 3. A study of the techniques of diagnosis and therapy employed in the clinical setting. Supervised practice in testing. Prerequisite: Psychology 130 or consent of the chairman of the department. Laboratory fee, $5.00.

215. **Learning and Motivation.** Sem. 2. Cr. 3. A study of the principles, techniques, and variables observed in the learning and motivational behavior of various organisms. Prerequisite: 6 hours of psychology.

*For Graduates*

303. **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. A treatment of the theoretical systems of personality, current approaches to the assessment of human motives, and the behavioral consequences of specific motives in the individual and society. Prerequisite: 3 hours of psychology at the graduate level.
THE DEPARTMENT OF SOCIAL WORK

Professor Tangerman (Chairman); Associate Professor Neal; Assistant Professors Kain and Rivers

The Department of Social Work, which is a member of the Council on Social Work Education, offers a special curriculum, the completion of which leads to the degree of Bachelor of Arts with a major in social work. This 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 curriculum is designed to meet the needs of three groups of students:

1. Those who wish to qualify for positions in social work which are open to college graduates who have had a good liberal arts education including undergraduate courses in social work.

2. Those who wish to obtain a good foundation for professional (graduate) education in social work.

3. Those who are not preparing themselves for a career in social work but wish to obtain a broad liberal arts education with sufficient emphasis upon social work to prepare them for civic leadership and volunteer services in social welfare or for employment in another helping profession.


Also required are one course in Economics, one course in Government, Psychology 51, and Sociology 53 and 101. Biology is recommended in meeting the General Education Requirement.

For majors planning to enter a graduate program in social work, an introductory course in statistics is recommended. Although only one minor is required, two minors may be obtained with careful planning. Psychology is recommended as one minor.

Students majoring in social work ordinarily must begin courses in the department at least four semesters prior to graduation. It is recommended that Social Work 107 and 108 be taken in the sophomore 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 transcript.


APPROVAL OF SCHEDULES—All students taking a major or minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester.
## Sample Curriculum Leading to Degree of Bachelor of Arts With a Major in Social Work

### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cr.</strong></td>
<td><strong>Cr.</strong></td>
</tr>
<tr>
<td>Freshman English</td>
<td>4</td>
</tr>
<tr>
<td>Natural Science</td>
<td>4</td>
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<tr>
<td>Foreign Language</td>
<td>4</td>
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<tr>
<td>Religion</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
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</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cr.</strong></td>
<td><strong>Cr.</strong></td>
</tr>
<tr>
<td>Social Work 107</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 51 or Sociology 53</td>
<td>3</td>
</tr>
<tr>
<td>History or Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Literature or Fine Arts.</td>
<td>3</td>
</tr>
<tr>
<td>Government</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
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### Junior Year

<table>
<thead>
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<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cr.</strong></td>
<td><strong>Cr.</strong></td>
</tr>
<tr>
<td>Social Work 150</td>
<td>4</td>
</tr>
<tr>
<td>Economics</td>
<td>3</td>
</tr>
<tr>
<td>Religion or Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></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><strong>Cr.</strong></td>
<td><strong>Cr.</strong></td>
</tr>
<tr>
<td>Social Work 163</td>
<td>4</td>
</tr>
<tr>
<td>Religion or Electives</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Total Semester Credits: 126**

### Courses in Social Work

**For Undergraduates**

78. **Introduction to Youth-Leadership Work.** Sem. 2. Cr. 3. An orientation course to acquaint the student with the principles, materials, and methods of youth-leadership work. Prerequisite: consent of the Director of the Youth-Leadership Training Program.

107. **The Field of Social Work.** Each sem. Cr. 3. A broad survey of social services covering the history, philosophy, goals, and structure of social work. A study of the methods employed to serve individuals, groups, and communities. This course should be of interest to all students not only in social work but teaching, the ministry, law, nursing, medicine, and church work. Prerequisite: at least sophomore standing or consent of the chairman of the department. Field trip fee, $5.00.

108. **Government and Social Welfare.** Each sem. Cr. 3. This course will include: (1) a survey of the history of social welfare services in the United States with special attention to the influence of federal social security legislation and (2) a descriptive analysis of various tax-supported social welfare programs and agencies. Case illustrations, films, and a field trip are used to help analyze some of the problems involved in social welfare. Prerequisite: Social Work 107 (may be taken concurrently by juniors and seniors) or consent of the chairman of the department. Field trip fee, $5.00.
150. **Introduction to Social Group Work.** Each sem. Cr. 4. A course in the basic principles of working with and programming for individuals in groups of various kinds. Emphasis is placed on beginning social work skills. There will be an opportunity for group work experience with city and county groups, such as group work with the aged, children in settlement houses, institutions, schools, and hospitals. Prerequisite: Social Work 108 (may be taken concurrently.)

160. **Introduction to Community Organization.** Each sem. Cr. 3. This course reviews the process and methods of community organization. Course is designed to give the student an intellectual awareness of the various sociological, historical, geographical, and religious forces which produce community organization and/or disorganization. Planning methods will be reviewed as they have emerged from current professional practice. Case illustrations, films, and outside speakers are used to analyze the problems involved. There will be some laboratory experience to test classroom theories and concepts through community participation in and/or observation of programs of social service, social policy, and/or social action. Prerequisite: Social Work 108 or consent of the chairman of the department.

162. **The Child and Society.** (Also offered as Physical Education 117.) Each sem. Cr. 3. This course discusses the theories of the psycho-social development of the child through family, peer group, school, church, and community. Comparison is made of childhood in American and other cultures. Child welfare movements are studied with emphasis on available social services. This course is required of all social work minors and majors but can be of great value to any adult who personally or professionally will deal with children. Prerequisite: Social Work 108 or consent of the chairman of the department. Field trip fee, $5.00.

163. **Social Services to Individuals.** Sem. 1. Cr. 4. The objectives of this course are to help each student acquire: (1) depth in knowledge of the community resources available to individuals; (2) an awareness of generic social work principles and the principles involved in interviewing; (3) insight into student’s own personality and prejudices. A weekly field work experience is required under the supervision of a professionally trained worker in one of numerous social work settings in Northwest Indiana: children’s homes; clinics (medical and psychiatric); courts; departments of public welfare; family service agencies; hospitals and associations for the retarded and mentally ill; rehabilitation services (physical, social, emotional, and educational); schools; and united funds. Classroom discussions integrate field experience through the use of actual cases studied by the students in different field work settings. Prerequisites: senior standing and a major in social work. Field trip fee, $30.00.

164. **Social Services to Individuals.** Sem. 2. Cr. 4. A continuation of Social Work 163 with more emphasis on practice material in classroom discussions and the continuation of the weekly field work experience. Prerequisite: Social Work 163. Field trip fee, $30.00.

170. **Special Studies in Social Work.** Each sem. Cr. 2 or 3. A topic such as counseling, independent study, and Black Urban Community will be offered.
THE DEPARTMENT OF SOCIOLOGY

Associate Professor Chalfant (Chairman); Professor J. Johnson;
Associate Professor Martinson; Assistant Professors Cross and
Sederberg; Mr. Weissbuch

MAJOR—A minimum of 30 credits in Sociology. Courses must include Sociology 53, 195, 196, 201, 202, and 203. No more than one sub-field or cognate course (the group numbered 54, 55, 56, and 185) may be included within the minimum requirement.

A course in introductory statistics (e.g., Psychology 131 or 203, Quantitative Analysis 85, Mathematics 54) is strongly recommended. A second course in computer programming and numerical computation (Mathematics 84) should also be considered.

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 transcript.

A minimum of 18 credits in Sociology constitutes a minor. Must include Sociology 53 and 201, the latter to be completed during the junior or senior years. No more than one sub-field or cognate course may be taken (those numbered 54, 55, 56, and 185). A minimum of three fields of Sociology courses must be completed by each student above the Sociology minor core course requirement of 53 and 201.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester. Normally, Sociology 201, 202, and 203 will be taken in the junior year; and Sociology 195 and 196 will be taken in the senior year.

COURSES IN SOCIOLOGY

For Undergraduates

55. 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 men live, the forces which hold groups together and lead to social change. The scientific method and the fundamental concepts contemporary sociologists use in the analysis of social life. Laboratory fee, $10.00.

54. SOCIAL PROBLEMS. Each sem. Cr. 3. A study of social maladjustments, dislocations, tensions, and social problems which arise from the operation of social systems, and their functional and dysfunctional nature. Theories of disorganization. The analysis of selected contemporary social problems in depth. Prerequisite: Sociology 53 or consent of the chairman of the department.

55. CULTURAL ANTHROPOLOGY. Each sem. Cr. 3. The study of the general principles of the discipline with special attention given to the development of human culture, and comparison of selected cultural areas of the world.

56. BLACK STUDIES: BLACK URBAN COMMUNITY. Each sem. Cr. 3. A topic of special interest to the Black Studies Program is presented. Prerequisite: Sociology 53 or consent of the chairman of the department.
101. **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 53 or consent of the chairman of the department.

102. **CULTURE AND PERSONALITY.** Sem. 2. Cr. 3. The organization and content of culture and its significance for individual personality, considered from the anthropological, sociological, psychological, and clinical viewpoints. Prerequisite: Sociology 53 or consent of the chairman of the department.

*185. **SPECIAL PROBLEMS IN SOCIOLOGY.** Cr. 3. An investigation of selected topics central to the field of sociology. Prerequisite: Sociology 53 or consent of the chairman of the department.

195. **INDEPENDENT STUDY IN SOCIOLOGY I.** Each sem. Cr. 3. An introduction to individual research on a specific problem in sociology. Required of senior majors. Prerequisites: Sociology 201, 202, and 203 or consent of the chairman of the department. Laboratory fee, $10.00.

196. **INDEPENDENT STUDY IN SOCIOLOGY II.** Each sem. Cr. 3. A continuation of individual research on a special problem in sociology. Required of senior majors. Prerequisite: Sociology 195. Laboratory fee, $10.00.

*For Undergraduates and Graduates*

201. **HISTORY OF SOCIAL THOUGHT.** Each sem. Cr. 3. A study of the emergence and historical development of social thought and of sociology as a discipline with emphasis upon modern sociological theory. Various American and European schools of thought are analyzed and critically appraised. Required of junior majors. Prerequisite: Sociology 53 or consent of the chairman of the department.

202. **CONTEMPORARY SOCIOLOGICAL THEORY.** Sem. 2. Cr. 3. Theoretical contributions of major methodological and theoretical orientations. Discussion of current theories of interaction, conflict, change, and structural-functional analysis. Required of junior majors. Prerequisite: Sociology 53 or consent of the chairman of the department.

203. **SOCIAL RESEARCH.** Sem. 2. Cr. 3. Problems of designing studies of human behavior, collecting and analyzing data, and interpreting results. Includes the formulation of hypotheses, developing theoretical models, experimental design, sampling techniques, scaling and manipulation of social variables. Required of junior majors. Prerequisite: Sociology 53 or consent of the chairman of the department. Laboratory fee, $10.00.

204. **CRIMINOLOGY.** Each sem. Cr. 3. An analysis of crime in contemporary society with an emphasis upon theories of causation, enforcement, adjudication, institutionalization of offenders, and trends in correctional treatment. Prerequisite: Sociology 53 or consent of the chairman of the department.

207. **SOCIOLOGY OF RELIGION.** (Also offered as Religion 207.) Sem. 1. Cr. 3. Social science methods applied to the analysis of the function and structure of religion, theories concerning the social implications of religion, interrelationships between religious groups and communities, effects upon culture, typology of religious groups, and current problems facing religious institutions. Prerequisite: Sociology 53 or consent of the chairman of the department.

212. **ETHNIC MINORITIES.** Each sem. Cr. 3. A specialized study of social organization in which dominant-minority relationships are analyzed theoretically and historically. Emphasis upon the nature of social and cultural interaction, the consequences of interaction for dominant-minority groups and the social system, together with the dynamics of assimilation and change. Prerequisite: Sociology 53 or consent of the chairman of the department.

*220. **SOCIAL COLLECTIVITIES.** Each sem. Cr. 3. A study of the theoretical and methodological dimensions of social collectivities such as small groups, formal organizations, collective behavior, or juvenile deviance and delinquency. Prerequisite: Sociology 53 or consent of the chairman of the department.

*Assessment of laboratory fee dependent on selection of topic.*
*230. Societal Structures. Each sem. Cr. 3. An investigation of selected sociological phenomena in relationship to current social theory and research. Topics may include socialization, social stratification, mass communications, population analysis, urban sociology, social change, or systems of justice. Prerequisite: Sociology 53 or consent of the chairman of the department.

*240. Social Institutions. Each sem. Cr. 3. An examination of the various aspects of selected social institutions in the light of the multiple variables of sociological analysis. Topics may include political sociology, or the sociology of medicine, of occupations, of law, or of knowledge. Prerequisite: Sociology 53 or consent of the chairman of the department.

*For Graduates*

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 instructor.

302. Seminar in Criminology and Penology. Cr. 3. Critical review of current theory, practice, and research in criminology and penology. Prerequisite: consent of the instructor.

*310. Seminar in Sociology. Cr. 3. An investigation of selected problems and concepts within sociology from the standpoint of sociological theory and current research. Topics may include religious systems and institutions, contemporary educational systems and structures, social systems and social change, ethnic systems and structures, juvenile deviance and delinquency, and organized crime. Prerequisite: consent of the instructor.

*Assessment of laboratory fee dependent on selection of topic.*
THE DEPARTMENT OF SPEECH AND DRAMA

Professor Sittion (Chairman); Professors Hahn and Kussrow*; Assistant Professors Dallmann, Guse, Hardgrove, and Pick

MAJOR IN SPEECH AND DRAMA—A minimum of 30 credits in Speech and Drama. Speech 40 is required.

It is recommended that Courses 1, 30, 67, 68, 81, 166, 182, 185, 186, 199, 205, and 208 should be included in a major.

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 transcript.

MINOR IN SPEECH AND DRAMA—A minimum of 16 credits in Speech and Drama constitutes a minor. Speech 40 is required.

It is recommended that Courses 67 or 68, 70, 81, 166, and 185 or 186 or 205, and 208 should be included.

MINOR IN SPEECH—A minimum of 16 credits in Speech constitutes a minor. Speech 40 is required.

Courses 70, 145, 151, 171, and 208 should be included.

MINOR IN SPEECH PATHOLOGY—A minimum of 15 credits in Speech Pathology constitutes a minor. Speech 40 is required.

It is recommended that Courses 20, 151, 152, 153, 154, and 195 or 196 should be included. A student cannot take an additional minor in this Department.

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, foreign languages.

THE JUNIOR YEAR ABROAD—The Department of Speech and Drama offers, in cooperation with the Central States College Association, a year of specialized training and experience at Coventry Cathedral, England, to individuals who are interested in the area of Drama and the Church. Students participating in this Program are registered at Valparaiso, either as regular students or as transient students. For further information concerning this Program, inquiries should be directed to the Director of International Studies.

THE UNIVERSITY THEATRE—Additional training and experience in acting and in dramatic production are provided by the University Theatre, which is under the supervision of the Department of Speech and Drama. Further information concerning the University Theatre may be found on page 57 of this bulletin. Since the University Theatre serves as a laboratory for courses in theatre, majors and minors are required to participate in a certain number of productions each year as determined by the chairman of the department.

DEBATE—Further training in debate techniques is offered students through intercollegiate debate sponsored by the Department of Speech and Drama.

*Director, COVAL Program, 1971-1972.
THE COLLEGE OF ARTS AND SCIENCES

THE SPEECH CLINIC—This clinic is a service offered by the Department of Speech and Drama to persons with speech disorders in the University and community and to foreign students. It also serves as a laboratory for the course in speech correction. Anyone interested in remedial speech work should consult the chairman of the department.

APPROVAL OF SCHEDULES—All students majoring or minoring in speech and drama must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN SPEECH AND DRAMA

For Undergraduates

1. STAGE MAKE-UP. Sem. 1. 1+1, Cr. 1. A laboratory course in the fundamentals of stage make-up.

20. VOICE AND ARTICULATION. Each sem. Cr. 2. A study of the anatomy and physiology of the speech mechanism and an introduction to American phonetics. This is a basic course for students of speech pathology, speech communication, and linguistics.

30. FUNDAMENTALS OF DRAMA. Each sem. Cr. 2. A study of the aesthetic and literary aspects of dramatic art.

35. DRAMA AND THE CHURCH. Sem. 1. Cr. 2. This course examines the theological dimension of creative action on the presentational level.

36. CHRISTIANITY AND THE CONTEMPORARY THEATRE.* Each sem. Cr. 3. A course designed to discover the areas of concern and basic assumptions of contemporary theologians and those of contemporary playwrights and theatre practitioners in order to ascertain what and where common ground may be found. A basic knowledge of modern Christian thought and dramatic theory is deemed advisable. Open to upper division students.

40. FUNDAMENTALS OF SPEECH. Each sem. Cr. 2 or 3. A basic course giving students training and practice in public speaking.

67. TECHNIQUES FOR THE STAGE. Sem. 1. 2+2, Cr. 2. A brief survey of the development of stage art. Intensive practice in planning, constructing, painting, rigging, and shifting stage scenery; in mounting and operating lighting equipment; and in creating effects used in various styles of production.

68. TECHNIQUES FOR THE STAGE. Sem. 2. 2+2, Cr. 2. A continuation of Speech 67.

69. STAGE DESIGN. Sem. 2. Cr. 1 or 2. A study of the principles of stage design with a brief survey of stage decoration; practice in sketches, elevations, and models for various styles of stage productions. Prerequisite: consent of the chairman of the department.

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.

81. ACTING. Each sem. 2+2, Cr. 2. A basic course in the theory and technique of acting.

91. INTRODUCTION TO RADIO. Sem. 1. Cr. 3. A course in radio speech, script writing, microphone technique, and program productions. Consideration is also given to radio as a teaching medium. Prerequisite: Speech 40.

92. MASS-MEDIA. Sem. 2. Cr. 3. A study of the language concepts of newspaper, radio, television, and films.

101. THE CHILD AND CREATIVE DRAMATICS. Each sem. 2+2, Cr. 2. A course designed for students interested in directing plays for and with children. Prerequisite: consent of the chairman of the department.

138. PLAYWRITING. Each sem. Cr. 2. A course devoted to creative writing experiences in the dramatic form. May be repeated for credit.

*Offered only in Overseas Study Program.

151. **Principles of Speech Correction.** Sem. 1. Cr. 3. A study of the nature and treatment of disorders of speech and language.

152. **Clinical Practice in Speech Correction.** Each sem. 0+2, or 0+4, Cr. 1 or 2. Supervised clinical experience in the management of communication disorders. Prerequisites: Speech 151 and consent of the Clinic Director.

153. **General Semantics.** Sem. 2. Cr. 3. An examination of the basic relationships between speech and human beings.

154. **Audiology.** Sem. 2. Cr. 3. An introduction to the anatomy and pathologies of the ear, theories of hearing, and the physics of sound.

166. **Play Directing.** Each sem. 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. Prerequisites: Speech 67 or 68, and 81.


182. **Advanced Acting.** Sem. 2. 2+2, Cr. 2. Advanced acting techniques with emphasis on period characterization. Prerequisite: Speech 81.

185. **The Theatre and its Literature.** Sem. 1. Cr. 3. A survey of the literature and history of the theatre from its beginning to the close of the seventeenth century. Prerequisite: English 51 or 52 or 56.

186. **The Theatre and its Literature.** Sem. 2. Cr. 3. A survey of the history of the theatre from the eighteenth century to the present.

191. **The Teaching of Speech and Drama.** Sem. 1. 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. **Seminar in Acting.** Sem. 1. Cr. 2. Intensive study of acting techniques based on detailed analyses of plays representing various dramatic styles. Each student undertakes a project which culminates in an acting recital.

191-196. **Projects in Speech and Theatre.** Each sem. Cr. 1 or 2. A course offering talented students an opportunity to study intensively an area of theatre art or oral communication.

198. **Senior Seminar.** Each sem. Cr. 3. A contemporary view of man in modern drama—psychological, philosophical, theological, perspective of man. Open to seniors in all courses of study.

199. **Oral Study of Literature.** Sem. 1. Cr. 2. An advanced course in the oral interpretation of certain masterpieces of drama, poetry, and prose. The philosophy of the author as well as the social, political, and religious influences that affected his work are studied before an attempt is made to interpret a given masterpiece.

*For Undergraduates and Graduates*

204. **The Contemporary Theatre and its Literature.** Sem. 2. Cr. 3. The main currents in dramatic art and literature since Ibsen as seen against the background of social, artistic, and intellectual movements of the past one hundred years and as illustrated in representative plays.


208. **Persuasion.** Sem. 2. Cr. 3. A study of the theories and uses of the persuasive process in society.
THE DEPARTMENT OF THEOLOGY

Associate Professor Keller (Chairman); Professors R. Baepler, Koepke, Kretzmann, Krodel, and Schultz; Associate Professors Droge, Jungkuntz*, Korby, and Rast**; Assistant Professors Albers, Boehringer, Brockopp, Lasky***, Ludwig, Schedler, Senne, Weinhold, and Widiger; Mr. Truemper****

MAJOR—A minimum of 24 credits in Religion beyond Religion 1.

Only one of the courses in professional religious education (Religion 81, 82, 83, 84-87) may be counted toward a major.

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 transcript.

A minimum of 15 credits beyond Religion 1 constitutes a minor.

Only one of the courses in professional religious education (Religion 81, 82, 83, 84-87) may be counted toward a minor.

APPROVAL OF SCHEDULES—All students taking a major or minor in this department must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN RELIGION†

For Undergraduates

NOTE: The religion requirement at Valparaiso University is three courses of three credits each. Introduction to Religious Studies (Religion 1) is the required first course for all students and is to be taken during the student's freshman or sophomore year. This course is the only prerequisite for the courses which follow, except for those where additional prerequisites are specified in the course description. The division of courses into intermediate and advanced courses is intended as a general guide to the student in selecting his second and third courses. The second course will normally be chosen from the intermediate courses; however, students with additional preparation and maturity may go directly to advanced courses. Students may take as many intermediate courses as they wish. The student should take at least one course in his junior or senior year.

1. INTRODUCTION TO RELIGIOUS STUDIES. 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. Specific content of the various sections of this course to be announced prior to registration.

NOTE: For the 1971-1972 academic year some sections of the following courses will be offered as Cr. 2 to accommodate students who are completing their degrees under the requirements of previous catalogs.

INTERMEDIATE COURSES

50. CHRISTIAN ETHICS. Each sem. Cr. 3. A study of the dynamics for ethical action and norms for ethical judgment provided by the Christian faith. Attention will be given both to ethical systems and to contemporary personal and moral issues.

*Director, University Overseas Center, Reutlingen, Germany, 1971-1972.
***On study leave, Fall Semester, 1971-1972.
†For courses given in Christ College, see page 230 of this Bulletin.
53. **FORMATIVE EVENTS IN CHURCH HISTORY.** Sem. 1. Cr. 3. An approach to the Church's understanding of her nature and mission through the study of formative events in her history.

54. **CHRISTIANITY AND CULTURE.** Sem. 2. Cr. 3. An approach to contemporary Christian life through its encounter and dialogue with the world.


56. **THE CHRISTIAN FAITH.** Sem. 2. Cr. 3. An approach to Christian doctrine through an investigation of classic Christian creedal formulations in contemporary contexts.

57. **THE CHURCH AND HER WORK.** Sem. 1. Cr. 3. A study of the theology and life of the Church in the light of contemporary critiques, with an emphasis on movements for renewal.

58. **HISTORY OF RELIGIONS.** Each sem. Cr. 2 or 3. This course aims to acquaint the student with the religions of mankind, their concepts of God, their institutions and their literature. Two credits are devoted to a general survey of man's religions. Three credits provides an additional class period each week for a concentrated study of one religion.

60. **THEOLOGICAL TOPICS:** (Varied listings to be announced each semester). Each sem. Cr. 3. A topical approach to the study of theology. A sample of intended offerings is: War and Revolution, The Sacraments, Renewal of the Church, Changing Concepts of God, Encounter with Death.

**ADVANCED COURSES**

**Note:** Students who have not taken an Intermediate Course should seek consent of the chairman of the department for an Advanced Course in which they wish to enroll.


103. **STUDIES IN JUDAISM.** Sem. 1. Cr. 3. The development and structural characteristics of Judaism, its interpretation of the Old Testament, and its responses to secularization during the last three centuries.

104. **ARCHAEOLOGY AND THE RELIGIONS OF THE ANCIENT NEAR EAST.** Sem. 2. Cr. 3. The religions of ancient Mesopotamia, Egypt, and Asia Minor as known through various excavations, with discussion of their relevance for biblical study.

105. **THE GOSPELS AND JESUS.** Each sem. Cr. 3. A study of the life and ministry of Jesus according to the Four Gospels.


126. **CHRISTIAN WORSHIP.** Sem. 2. Cr. 3. A study of the history and theology of the liturgy of the Church.

130. **THE SHAPING OF CHRISTIAN THOUGHT.** Sem. 1. Cr. 3. A study of the formulation of Christian thought in the works of classic theologians throughout the history of the Church.

141. **COMPARATIVE CHRISTIANITY.** Sem. 1. Cr. 3. A study of the various Christian denominations in the light of their history and confessions.

143. **SELECTED STUDIES IN HISTORY OF RELIGIONS.** Sem. 2. Cr. 3. Advanced studies of single religious traditions or examination of particular religious motifs in several traditions. Topics to be announced in advance of registration.

**Prerequisite:** Religion 58.
150. **The Church in a Revolutionary Age.** Sem. 1. Cr. 3. The history of the Church in the 19th and 20th centuries.

152. **History of American Christianity.** Sem. 2. Cr. 3. The history of Christianity in America from the colonial period to the present with special emphasis on the history of Lutheranism.

155. **Life and Thought of Martin Luther.** Sem. 1. Cr. 3. A study of the spiritual development of Martin Luther, with emphasis on his more important writings.

156. **Theology of the Lutheran Confessions.** Sem. 2. Cr. 3. A study of the historical background and doctrinal content of the confessions of the Lutheran Church.

160. **Religion 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, The Search for Reconciliation in the Middle East, Christianity and Modern Problems.

191-192. **Theology Seminar.** Each sem. Cr. 3. Advanced study of selected areas or issues in the discipline of theology. Prerequisites: senior standing and consent of the chairman of the department.

193. **Independent Study.** Each sem. Cr. 1, 2, or 3. Prerequisites: junior standing, 12 semester hours in religion, and consent of the chairman of the department.

**For Undergraduates and Graduates**

201. **Recent Christian Thought.** Sem. 1. Cr. 3. A study of the writings of major recent interpreters of the Christian faith, such as Karl Barth, Paul Tillich, Reinhold Niebuhr, Wolfhart Pannenberg, and others.

202. **Contemporary Ethical Issues.** Sem. 2. Cr. 3. A study in depth of selected contemporary ethical issues.

203. **Theology and the Sciences of Man.** Sem. 2. Cr. 3. An investigation of the areas of common interest in the fields of Christian theology and the social and personality sciences.

207. **Sociology of Religion.** (Also offered as Sociology 207.) Sem. 1. Cr. 3. Social science methods applied to the study of organizational forms of religion. Consideration is given to theories concerning social implication of religion, interrelations between religious groups and communities, dynamics of religious movements, effects upon culture, typology of religious groups, current problems facing religious institutions. Prerequisite: Sociology 53.

**For Graduates**

310. **Religious Thought in American Culture.** Cr. 3. An investigation of American religious thought with special emphasis on the interaction between religion and American cultural development. Prerequisite: basic course in American History or approval of the chairman of the department.

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.

350. **The Christian Message and Eastern Cultures.** Cr. 3. A study of the historical and cultural impact of the Christian message on the life of the people of selected Eastern countries.

*This course may not be counted toward meeting general education requirements in religion.*
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.

365. 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.

381. 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 man. A selected number of works by significant writers from various disciplines will be studied.

Courses in Professional Religious Education

For Undergraduates

81. Catechesis and Parish Education. Sem. 1. Cr. 3. Theological approach to Christian education with attention to the learning process and the setting in the Christian congregation. Lectures and discussions with field experience in a local congregation. Prerequisites: junior standing and consent of the instructor.

82. The Fields of Deaconess Work. Sem. 2. Cr. 3. A survey of deaconess work, past and present. Field trips, representative lectures from various areas of church work. Preparation for deaconess internship.

83. Administration in the Parish Program. Sem. 1. Cr. 4. This course for professional church workers is designed to evaluate the internship, to explore theological grounds for counseling, and to give attention to the devotional life of the church worker. Prerequisite: senior standing in Deaconess or YLTP.

84-87. Practicum in Ministry. Each sem. Cr. 1-3. Semester to semester design for field experience to various local agencies, together with reflection on the work being done. Arranged with the directors of the professional programs.
CHRIST COLLEGE

Professor R. Baepler (Dean); Professor Rubel; Associate Professor Reiner; Assistant Professors Affeldt, and Lee; Visiting Professor R. Luecke

Christ College exists to provide a place in undergraduate education for special programs which combine rigor of discipline with flexibility of program, encourage the integration of knowledge, and lead the student to engagement with the non-academic world. While sharing the general purposes of Valparaiso University, Christ College does not prepare a student for a particular profession but emphasizes the importance of liberal studies, particularly the humanities, for the student’s life and for public affairs. Therefore it requires its students to inquire beyond their specialized interests into the larger contexts of human thought and action. 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 Freshman-Sophomore Program for selected freshman and sophomore students (see below);
- 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;
- a new physical setting which facilitates immediate relationships between students and faculty as well as communication among the traditional divisions of knowledge.

THE FRESHMAN-SOPHOMORE PROGRAM

The Freshman-Sophomore Program is designed to explore the educational opportunities arising from a program of intensified general studies for a relatively small group of selected freshmen and sophomores who are willing to invest more of themselves in the academic enterprise than might normally be required. The Program emphasizes the humanities, and accounts for about sixty per cent of the general education requirements of a typical student. Small classes, semi-tutorial work and an experimental flair characterize the Program. The Committee on Christ College may authorize certain variations in the normal academic requirements of a student in the Program if such variations seem desirable. It may permit him to carry additional hours, to waive prerequisites for advanced courses, and in general to tailor his program to meet his interests and needs within the general framework of the University’s objectives.

Students are admitted to the Program by invitation. Most members of
the Program are admitted as freshmen on the basis of an unusually distinguished high school record in academic and extracurricular activities, and on the basis of evidence indicating an ability to profit from intensified studies. A number of students may be admitted to the Program after their freshman year at Valparaiso. Such admission is also by invitation, but the Committee encourages interested students to bring their names to its attention through the office of the dean.

**SUGGESTED FRESHMAN-SOPHOMORE PROGRAM FOR 1971-1972**

<table>
<thead>
<tr>
<th>First Year</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problems of Inquiry: The Humanities and Social Sciences I</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Problems of Inquiry: The Humanities and Social Sciences II</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masterpieces of Literature</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Philosophy of the Arts and Sciences</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Issues in Contemporary Christian Thought</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CHRIST COLLEGE SCHOLARS AND ASSOCIATES**

Students enrolled in Christ College are normally enrolled concurrently in one of the other four undergraduate colleges of the University and are officially designated "Members of Christ College." These students are jointly advised by their major adviser and their Christ College adviser. Members of Christ College will normally be required to meet, by course examination or other evidence of qualification, the regular requirements for graduation except where explicitly modified. The Committee on Christ College may recommend such adjustments in these requirements as are in the spirit of the University’s requirements and the best interests of the students. Members of Christ College who meet the appropriate junior-senior requirements of Christ College will be graduated as “Christ College Scholars” or “Christ College Associates.” A Christ College Scholar should meet the following requirements:

- The Bachelor’s Essay or an appropriate example of independent study*
- Two Christ College Interdisciplinary Seminars
- Introduction to Christian Ethics
- A course in the fine arts and in philosophy

If a Christ College student is unable, by preference or because of the demands of his academic program, to meet the full requirements stated above, he shall confer with the dean to determine the minimum requirements for graduation as a “Christ College Associate.”

Normally a Christ College student shall complete the Freshman-Sophomore Program and major in one of the University’s departments. Special interdepartmental majors may be worked out with help of the dean and the various departments. For such programs the student must demonstrate a basic coherence and rationale in his proposal which should normally be made at the end of the sophomore year. Certain students may be ad-

*The dean’s office will supply descriptive material for this project.
mitted to Christ College in full membership upon application to the Committee through the dean’s office even though they have not participated in the Freshman-Sophomore Program.

Membership in Christ College is never terminated by the mechanical application of arbitrary criteria such as grade point average or academic performance over the course of a single semester. In general, Christ College students should expect to maintain a grade point average of 2.00 or better, but in every case the judgment of whether a student should be admitted, retained, or readmitted as a member of the College will be made only after thorough consideration of the probable best interests of the student.

The governing body of Christ College is the Committee on Christ College, which includes the faculty teaching in the College. Within the general framework of the University regulations the Committee conducts the affairs of the College and continually evaluates the curriculum. The Committee may allow for all members of the College those variations and special considerations enumerated above in connection with the Freshman-Sophomore Program.

*URBAN SEMESTER*

Through Christ College Valparaiso University offers to 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 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:

- Urban Studies 138 The City and Its Systems......6 hours
- Urban Studies 150 Power and Justice.............4 hours
- General Studies 194 Independent Study Project......3 hours

Students shall be admitted to this Program on the recommendation of an appropriate committee. This Program is offered for the school year of 1971-1972.

*SPECIAL PROGRAMS*

These interdisciplinary programs aim to develop in students a greater sense of the relatedness of various fields of knowledge and experience, and to increase their awareness of value-choices in intellectual and social life. They thus provide a background for a wide range of professions and, when combined with concentrated study in a particular field, prepare a student for advanced graduate scholarship in a more specialized sense.

*Graded on an S/U basis.*
These programs are open to all members of the University and are normally begun in a student’s junior year. Each student is assigned an adviser with whom he shall regularly confer in the planning and execution of his program. (Several programs are presently under study; the Special Program in the Humanities began in the fall of 1969).

**The Special Program in the Humanities**

The Humanities are concerned with the works of the human spirit, a spirit discernible in works of literature, philosophy, history, religion, and the fine arts. Together they constitute the preponderant common subject matter of the Humanities, each being a different manifestation of the same spirit. Thus these works can be explored as imaginative and intellectual constructs within historical contexts and traditions. Indeed, viewed from such a standpoint, certain works more commonly associated with social and scientific thought, are drawn into the range of concern of this Program.

This Program, developed by the student with his Faculty Tutor, is based on three kinds of learning experiences: a series of core sequence courses in the Humanities in which an interrelated group of disciplines—literature, history, philosophy and theology—receive major emphasis; a series of courses in a concentration area coordinated with a junior year study project; and a comprehensive examination on a list of works mastered independently by the student. A more detailed explanation of the Program is available from the office of the Dean of Christ College or from the Director of the Special Program in the Humanities.

The following program of studies comprises a major in the Humanities:

A. The Core Sequence. All Humanities majors are required to take Humanities 101: Interpretation in the Humanities; and Humanities 195: Value and Judgment in the Humanities. In addition, each Humanities major will be required to select three courses from the following:

- Humanities 160, 170, 180. Humanities Seminar. (Topic.)
- Humanities 161, 171, 181. Humanities Seminar. (Period.)

B. The Concentration Area. Humanities majors will also offer a concentration in a single field of studies from the following disciplines: history, literature, philosophy, and theology. Students, with the approval of the Christ College core staff, may concentrate in other areas. Such a concentration will include at least four courses in a discipline beyond general education requirements.

In addition, the student is required to design and complete a study project on fundamental methods and materials in his concentration during his junior year.

C. The Sources of Thought. To provide additional range and flexibility in his program, the Humanities major will select, subject to the approval of his Faculty Tutor and with the approval of the Humanities staff, great works from the Humanities for detailed individual study. A comprehensive examination on the works of these men will be taken by the end of the senior year.
COURSES IN CHRIST COLLEGE

Humanities and Social Sciences 35. PROBLEMS OF INQUIRY: THE HUMANITIES AND SOCIAL SCIENCES I. Sem. 1. Cr. 8. 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. Weekly essays read in a tutorial setting are basic to the course. Advisory grades (ABCFD) will be given throughout the semester but the final course grade will be on an S/U basis.

Humanities and Social Sciences 36. PROBLEMS OF INQUIRY: THE HUMANITIES AND SOCIAL SCIENCES II. Sem. 2. Cr. 8. A continuation of Humanities and Social Sciences 35. Each student will conduct a major investigation of a problem to be formulated in the course of the semester.

English 53. MASTERPIECES OF LITERATURE. Sem. 1. Cr. 4. A study of selected masterpieces of world literature. Prerequisite: English 2 or 4.

English 54. MASTERPIECES OF LITERATURE. Sem. 2. Cr. 4. Continuation of English 53. Prerequisite: English 2 or 4. A special section of this course will be offered in which special attention will be given the problem of interdisciplinary study in the arts.

Religion 55. ISSUES IN CONTEMPORARY CHRISTIAN THOUGHT. Sem. 2. Cr. 2. A study of contemporary Christian writers and the issues they deal with in their effort to relate the Christian faith to modern culture.


Urban Studies 135. URBAN PROBLEMS. Each sem. Cr. 3-6. An interdisciplinary course on problems of urban life, such as education, art, social action groups, gangs, law enforcement. These problems are studied in the context of the social-political structure of a large urban complex. Extensive field work and reading. Prerequisite: consent of the dean.

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 communications. 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 the contemporary urban scene. Prerequisite: consent of the dean.

General Studies 140. MAN IN HIS SOCIAL CONTEXTS. Each sem. Cr. 2 or 3. An attempt to understand the decision-making process with special reference to the structure of contemporary society and the values of western civilization. The instructor may choose a particular disciplinary focus for the study.

General Studies 145. TECHNOLOGY AND HUMAN CULTURE. Sem. 2. Cr. 3. A study of the impact of technology on social organization and human imagination. Consideration of related ethical problems. Special attention given the role of cybernation in contemporary affairs. Open to juniors and seniors.

General Studies 155. TUTORIAL STUDIES. Each sem. Cr. 2-4. A course of studies arranged by a professor and one or more students. A satisfactory-unsatisfactory grade may be given if so stipulated at the beginning of the course. Open only to members of Christ College. Prerequisite: consent of the dean.
General Studies 185. **TWENTIETH CENTURY WRITERS.** Sem. 2. Cr. 3. A study of selected writings which reflect and shape the contemporary mind. Critical attention is devoted to both the form and the content of the works studied so that their special character and influence may be evaluated. Prerequisites: junior standing and consent of the dean of the college.

General Studies 192. **CONTEMPORARY VIEWS OF MAN.** Sem. 2. Cr. 3. A proseminar offered under the supervision of the Committee on Christ College. The purpose of the course is to make a thorough study of a limited number of works by significant contemporary writers in the various disciplines in order to ascertain the writers' views of man. In addition to attending the sessions of the proseminar, each student will be required to meet with a faculty member fortnightly for a conference. This course is intended primarily for senior students in the Christ College Program. Prerequisites: senior standing and consent of the dean of the college.

General Studies 194. **INDEPENDENT-STUDY PROJECT:** (Area of concentration.) Each sem. Cr. 3-6. 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 head or chairman of the department concerned and the dean of the college. Only 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.

**Humanities 101. INTERPRETATION IN THE HUMANITIES** Sem. 1. Cr. 3. An introductory study of interpretative problems in history, literature, philosophy, and theology. Primary attention is given to the specific ways in which the interpretation of texts is related to auctorial intention, varying subject matters, and differing reader expectations. Required for Humanities Majors.

**Humanities 160, 170, 180. 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: Humanities 101 or consent of the Dean.

**Humanities 161, 171, 181. 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 Epos) through an examination of selected works from that period. Prerequisite: Humanities 101 or consent of the Dean.

**Humanities 165. INDEPENDENT READING.** Cr. 3-6. A reading course which must be approved by a supervising instructor in consultation with the Dean of the College.

**Humanities 184. JUNIOR YEAR STUDY PROJECT.** (Area). Sem. 2. Cr. 3. A study of selected texts in the Humanities major's concentration area. This independent study, designed by the student with his Faculty Tutor, focuses on developing the student's analytical skills in the methods and materials of the concentration area.

**Humanities 195. VALUE AND JUDGMENT IN THE HUMANITIES.** Sem. 2. Cr. 3. A study of evaluative problems encountered in assessing the significance of selected texts and/or works in the performing or fine arts the student has reflected on in his undergraduate experience. Open to seniors only.
college of business administration
THE COLLEGE OF BUSINESS ADMINISTRATION

Professor Laube (Dean)

OBJECTIVES

The College of Business Administration, as an integral part of Valparaiso University, shares the philosophy and the general objectives of the University.

The special objective of the College of Business Administration, however, is to provide training for business careers and for graduate work in three fundamental areas. 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 his background and his outlook by taking as many courses as possible in the liberal arts.

The College of Business Administration encourages each student to learn to think coherently, logically, and creatively and to learn to apply his knowledge and understanding of human society and of Christian principles gained from the liberal arts and religion to business decision-making and to his conduct as a businessman.

ORGANIZATION

The College of Business Administration is an administrative and instructional unit of the University under the direction of the Dean of the College of Business Administration. It comprises three departments: the Department of Accounting, the Department of Economics, and the Department of Administration. Course offerings in this department are structured to permit limited concentrations in management, marketing, finance, and quantitative analysis.

CURRICULA

The College of Business Administration offers three four-year curricula leading to the degree of Bachelor of Science in Business Administration. In addition to taking certain prescribed courses in accounting, business law, marketing, finance, management, and economics, the student must complete a major in one of the three departments: Accounting, Economics, or Administration. 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 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 diversity to his 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 of Business Administration are eligible for membership in The Association of Business Students of the College of Business Administration. This association offers the student the opportunity for development through field trips, a guest speaker program, and participation in other extra-curricular activities.

CO-OPERATIVE PROGRAM

The College of Business Administration has established an arrangement 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 a singular advantage should he 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 curricula prescribed by the College of Business Administration and must meet all the additional requirements for graduation set by the University (see pages 103-105 of this bulletin).

No credits earned in secretarial science and only four semester credits earned in the College of Engineering may count towards the degree of Bachelor of Science in Business Administration. 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.

ADMISSION

The requirements for admission to the College of Business Administration are the same as those for admission to the College of Arts and Sciences. These requirements may be found on page 95 of this bulletin.
# BUSINESS ADMINISTRATION CURRICULA

The following courses are common to each major.

## LOWER DIVISION

**College of Arts and Sciences**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion</td>
<td>6</td>
</tr>
<tr>
<td>English: Freshman</td>
<td>4</td>
</tr>
<tr>
<td>Literature</td>
<td>4</td>
</tr>
<tr>
<td>Effective Communication</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 35 and 36</td>
<td>8</td>
</tr>
<tr>
<td>Natural Science (Any two courses)</td>
<td>8</td>
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<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Principles of Economics 71 and 72</td>
<td>6</td>
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**College of Business Administration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Accounting 11 and 12</td>
<td>6</td>
</tr>
<tr>
<td>Marketing 31</td>
<td>3</td>
</tr>
<tr>
<td>Management 41</td>
<td>3</td>
</tr>
<tr>
<td>Finance 61</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Analysis 85</td>
<td>3</td>
</tr>
<tr>
<td><strong>Business Law 53</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

## UPPER DIVISION

**College of Arts and Sciences**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion</td>
<td>3</td>
</tr>
<tr>
<td>General Studies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Liberal Arts Electives</strong></td>
<td>12-15</td>
</tr>
</tbody>
</table>

*A student placing out of Mathematics 35 must take Mathematics 36 or the equivalent. The 4 credits bypassed by the placement qualification may be satisfied by any 3 credit Liberal Arts course. A student placing out of both Mathematics 35 and 36 must take one other course in mathematics (4 credits). The 4 credits bypassed by the placement qualification may be satisfied by any 3 credit Liberal Arts course.

**Accounting majors must take Business Law 55.

***For all majors these Liberal Arts electives must contain at least 3 credits of social science other than economics. Accounting majors need take only 12 credits of Liberal Arts electives to allow for the Mathematics 84 course requirement.*
CURRICULA LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

The required and elective courses for the three majors are as follows.

**Accounting Major**

**Upper Division**

| Major Requirements in the College of Arts and Sciences | 3 credits |
| Mathmatics 84 | 3 credits |

| Major Requirements in the College of Business Administration | 3 credits |
| Accounting 101 | 3 credits |
| Accounting 102 | 3 credits |
| Accounting 111 | 3 credits |
| Accounting 115 | 3 credits |
| Quantitative Analysis 87 | 3 credits |
| Business Law 152 | 3 credits |
| Management 147 | 3 credits |
| Economics (E183, E185, E281, or E282) | 3 credits |
| Accounting Electives | 12 credits |
| Business Electives | 6 credits |
| **Total** | 42 credits |

| Administration Major | 3 credits |
| Accounting 103 | 3 credits |
| Marketing 132 | 3 credits |
| Management 147 | 3 credits |
| Finance 161 | 3 credits |
| Finance (Any course numbered above F161) | 3 credits |
| Management or Marketing (Any course numbered above Mgmt. 41 or Mrktg. 31) | 3 credits |
| Quantitative Analysis 87 | 3 credits |
| Economics (E183, E185, E281, or E282) | 3 credits |

**Specialization Options:**

- **A. Business Electives**
- **B. Management, Marketing or Finance**
- **C. Related Arts and Sciences**

| 18 credits | 9 credits | 9 credits |
| Business Electives | 18 credits |
| Business Electives | 6 credits |
| **Total** | 42 credits |

*A transfer student may apply a maximum of 6 credits in religion from his 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.*

Students who fail to pass an examination in the fundamentals of English usage given to all new students are required to take a non-credit course in Fundamentals of Writing.
THE COLLEGE OF BUSINESS ADMINISTRATION

ECONOMICS MAJOR

UPPER DIVISION

Major Requirements in the College of Business Administration

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 185</td>
<td>3</td>
</tr>
<tr>
<td>Economics 281</td>
<td>3</td>
</tr>
<tr>
<td>Economics 282</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Analysis 86 or 89 (or mathematics equivalent to Quantitative Analysis 89)</td>
<td>3</td>
</tr>
<tr>
<td>Management 147</td>
<td>3</td>
</tr>
<tr>
<td>Economics Electives</td>
<td>15</td>
</tr>
<tr>
<td>Business Electives</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>42 credits</strong></td>
</tr>
</tbody>
</table>

COURSES IN BUSINESS LAW

53. THE LEGAL ENVIRONMENT OF BUSINESS. Each sem. Cr. 3. A survey of the nature, formation, and application of law in our society. Prerequisite: Accounting 12.

55. BUSINESS LAW I. Sem. 1. Cr. 3. A study of the law of contracts, agency, bailment and carriers, and sales. Prerequisite: Accounting 12.

152. BUSINESS LAW II. Sem. 2. Cr. 3. A study of the law of commercial paper, partnerships, corporations, unfair competition, bankruptcy, secured transactions, property, trusts, mortgages, insurance, and wills. Prerequisite: Business Law 53 or 55.
THE DEPARTMENT OF ACCOUNTING

Associate Professor Sievers (Chairman); Assistant Professors R. Beilfuss and Ehrenberg

COURSES IN ACCOUNTING*

11. ACCOUNTING PRINCIPLES. Each sem. 2+2, Cr. 3. A course developing and giving practical application to the fundamental principles and procedures of accounting to the single proprietorship, partnership, and corporate forms of business enterprise.

12. ACCOUNTING PRINCIPLES. Each sem. 2+2, Cr. 3. A continuation of accounting 11. Prerequisite: Accounting 11 or the equivalent.

101. (Formerly 21.) INTERMEDIATE ACCOUNTING I. Sem. 1. Cr. 3. A study of the preparation and analysis of working papers and statements, problems relating to the organization and operation of corporations, and the classification and valuation of various balance sheet accounts. Prerequisite: Accounting 12 or the equivalent.

102. (Formerly 22.) INTERMEDIATE ACCOUNTING II. Sem. 2. Cr. 3. A continuation of Accounting 101. Prerequisite: Accounting 101 or the equivalent.

103. MANAGERIAL ACCOUNTING. Each sem. Cr. 3. Non-accounting Majors only. A course designed to develop and to present the accounting aids needed by management for effective control of a business enterprise. Prerequisite: Accounting 12 or the equivalent.

111. COST ACCOUNTING. Sem. 1. Cr. 3. A course designed to expose students in depth to job order and process methods of costing production. Topics also include budgeting, profit volume relationships, and profit planning. Prerequisite: Accounting 12 or the equivalent.

112. ADVANCED COST ACCOUNTING. Sem. 2. Cr. 3. A course designed to prepare students to analyze and use cost information for decision-making purposes. Direct costing, cost-volume-profit relationships, estimated costs and standard costing systems, and variance analyses are covered in more depth than in Accounting 111. Prerequisite: Accounting 111.

115. ADVANCED ACCOUNTING. Sem. 1. Cr. 3. A course dealing with the special problems of business organizations expanding into multiple groups, including the federal tax dimension. Prerequisites: Accounting 101 and 102.

116. ACCOUNTING PROCEDURES IN SPECIAL AREAS. Sem. 2. Cr. 3. A course dealing in accounting procedures in special areas and the tax regulations affecting income determination. This course is designed primarily for students who intend to enter public accounting. Prerequisites: Accounting 101 and 102.

121. INCOME TAX ACCOUNTING. Sem. 1. Cr. 3. A study of the underlying principles of income taxation and the special accounting problems involved in the determination of the tax liability of the individual. Prerequisites: Accounting 12 or 101 and consent of the instructor.

124. ACCOUNTING THEORY. Sem. 2. Cr. 3. A critical investigation of current and classical accounting theories as they exist within the framework of the underlying fundamental principles, concepts, and postulates. Prerequisites: Accounting 101 and 102.

125. CONTROLLERSHIP. Sem. 1. Cr. 3. A course designed to acquaint the student with 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 procedures, mechanical, automatic, and electronic adaptations

*Of the courses offered in the College of Business Administration, only three semester credits (Accounting 11 or Accounting 12) may be counted toward a degree offered by the College of Engineering.
to the accounting needs; budget programming and control; and, projection for analysis of return on capital invested. Prerequisites: Accounting 111 or consent of the instructor and senior standing in the College.

128. PRINCIPLES OF AUDITING. Sem. 2. Cr. 3. A study of the application of accounting theory and practice to the procedures followed in performing the various steps in balance sheet, detailed and special audits. Prerequisites: Accounting 111 and 115.

129. SPECIAL PROBLEMS IN ACCOUNTING. Each sem. Cr. 1-3. A course in which a special topic in accounting will be given intensive study. The topic will vary from year to year. Prerequisites: senior standing in the College and consent of the chairman of the department.
THE DEPARTMENT OF ADMINISTRATION

Professor Laube (Acting Chairman); Professor Gram; Associate Professor Hutchins; Assistant Professors Bierwagen and Ralston; Mr. Pellegrini, and Mr. Tilly

COURSES IN FINANCE

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 12.

61. PRINCIPLES OF FINANCE. Each sem. Cr. 3. A survey of the principles of finance from the viewpoint of the manager, emphasizing the use of financial statements, tools, and concepts for measuring, planning and controlling for profitability and liquidity. Prerequisite: Accounting 12.

153. PROPERTY AND LIABILITY INSURANCE. Sem. 1. Cr. 3. A study of the basic economics and legal concepts of property and liability insurance. Special attention is given to the protection of business assets through insurance coverage. Prerequisite: Finance 51.

154. LIFE AND HEALTH INSURANCE. Sem. 2. Cr. 3. An analysis of the alternate techniques for protection against economic losses for the individual through death, disability, and retirement. Prerequisite: Finance 51.

161. CORPORATE FINANCE. Sem. 1. Cr. 3. An analysis of the administrative and managerial problems of raising short-term capital for the corporate enterprise. Prerequisite: Finance 61.

162. CAPITAL AND DEBT FINANCING. Sem. 2. Cr. 3. An analysis of the managerial problems connected with the generating of long term capital for the corporate enterprise. Prerequisite: Finance 61.

163. PRINCIPLES OF INVESTMENT. Each sem. Cr. 3. A survey of the principles of investment, security analysis, measurement of the investment risk, the organization and operation of security exchanges, and the investment policies of individuals and financial firms. Prerequisite: Finance 61.

164. SECURITY ANALYSIS. Sem. 2. Cr. 3. An advanced analysis of the techniques and methods utilized in the evaluation of securities. Prerequisite: Finance 61.

166. PUBLIC FINANCE. (Also offered as Economics 174.) 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.

169. SPECIAL PROBLEMS IN FINANCE. Each sem. Cr. 1-3. A course in which a special topic in finance will be given intensive study. The topic will vary from year to year. Prerequisite: senior standing in the College or consent of the chairman of the department.

COURSES IN MANAGEMENT

41. PRINCIPLES OF MANAGEMENT. Each sem. Cr. 3. In this course the various concepts of management which include the management process, behavioral, decision making, quantitative, and management systems are examined with an analysis of their application. Prerequisite: sophomore standing in the College.

102. COMPUTER PROGRAMMING AND NUMERICAL COMPUTATION. (Also offered as Mathematics 84.) Each sem. Cr. 3. The purpose of this course is to acquaint the student with computer programming languages including machine languages, Fortran, Algol, and Cobol. Application of these languages is made to the programming of simple arithmetic and algebraic problems including elementary statistical measures. Prerequisites: Mathematics 35 and 36 or the
equivalent and Accounting 12, plus either a statistics or a mathematics course numbered above 36 or its equivalent. Laboratory fee, $10.00.

140. BUSINESS POLICIES. Sem. 2. Cr. 3. A case method approach to organization problems stressing alternative actions in decision making on the various business functions. Prerequisite: senior standing in the College.

141. PRODUCTION MANAGEMENT. Sem. 1. Cr. 3. Provides the student with an understanding of the basic production operations of a business firm relating to the plant location, the physical background, plant layout, material handling, plant safety, industrial hygiene, maintenance, product design, simplification, and development, industrial research, inventory control, quality control, and production control. (Offered in alternate years.) Prerequisite: Management 41.

142. PERSONNEL MANAGEMENT. Each sem. Cr. 3. An analysis of the policies and practices of personnel administration such as manpower planning, selection, placement, compensation, and training. Prerequisite: junior standing in the College.

144. MATHEMATICAL MODELS IN THE SOCIAL SCIENCES. (Also offered as Mathematics 163.) Sem. 1. Cr. 3. This course is intended for mathematics minors who major in a social science. Topics will be chosen according to the interests of the students. These may include linear and dynamic programming, the Estes learning model, inventory models, Leontief input-output model, and simulation techniques. Prerequisites: Mathematics 36 and 53 or the equivalent. (Offered upon sufficient demand.)

145. INDUSTRIAL RELATIONS. Sem. 2. Cr. 3. A study of employer and employee relations with special attention to wage determination, grievance procedure, arbitration, and the negotiation of collective bargaining agreements in both the private and public sector. Prerequisite: Management 142.

146. MANAGEMENT SYSTEMS AND ORGANIZATIONAL THEORY. Sem. 2. Cr. 3. An integrated study of the relationship between managerial systems and organization theory. Prerequisite: Management 41. (Offered in 1972-1973.)

147. MANAGEMENT SIMULATION. Sem. 1. Cr. 3. Emphasis is upon decision making as applied through a computer simulation game in which students represent executive positions on a manufacturing firm. Prerequisite: senior standing in the College.

148. BUSINESS AND MODERN SOCIETY. Sem. 2. Cr. 3. An analysis of modern business in its contemporary environment with particular reference to the ethical, political, and sociological context of business operations. Prerequisite: senior standing in the College or consent of the chairman of the department.

149. SPECIAL PROBLEMS IN MANAGEMENT. Each sem. Cr. 1-3. A course in which a special topic in management or marketing will be given intensive study. The topic will vary from year to year. Prerequisites: senior standing in the College and consent of the chairman of the department.

COURSES IN MARKETING

31. PRINCIPLES OF MARKETING. Each sem. Cr. 3. An introductory study in the marketing of goods and services using the managerial approach. Among those areas studied will be price, promotion, product and distribution. Prerequisite: sophomore standing.

313. RETAILING. Sem. 1. Cr. 3. A survey of modern practices in retailing, such as store location, organization, buying, sales promotion and merchandise planning and control. Prerequisite: Marketing 31.

312. MARKETING MANAGEMENT. Sem. 1. Cr. 3. A study of the marketing problems of the firm approached from the management point of view. Prerequisites: Marketing 31 and Management 41.
133. Promotional Techniques. Each sem. Cr. 3. An introductory study of marketing communication tools which include advertising, personal selling, publicity, and sales promotions. Prerequisite: Marketing 31.

136. International Marketing. Sem. 2. Cr. 3. An analysis of cultural, legal and political factors affecting the marketing of products and services in world markets. Emphasis is placed upon differences in life styles, beliefs and attitudes and their influences upon marketing decisions of the foreign firm. Prerequisite: Marketing 31. (Offered in 1972-1973.)

137. Consumer Behavior. Sem. 2. Cr. 3. A study of the factors which influence the behavior of consumers in the market. Contributions from the behavioral and social sciences are related to various marketing applications. Prerequisite: Marketing 132.

138. Marketing Research. Sem. 2. Cr. 3. A study of important research concepts and techniques as applied to marketing decision-making. Emphasis will be placed upon marketing investigation and analysis of research results through a field project. Prerequisites: Marketing 132 and Quantitative Analysis 85.

139. Special Problems in Marketing. Each sem. Cr. 3. A course in which a special topic in marketing will be given intensive study. The topic will vary from year to year. Prerequisites: senior standing in the College and consent of the chairman of the department.

Courses in Quantitative Analysis

85. Statistics I. Each sem. Cr. 3. A course in the elements of statistical inference and the application of statistical methods to business and economic problems. Content includes descriptive statistics, probability theory and probability distributions, estimation, and tests of hypotheses. Prerequisite: Mathematics 36.

86. Statistics II. Sem. 2. Cr. 3. A continuation of Quantitative Analysis 85. New topics include non-parametric statistics, analysis of variance, regression and correlation analysis, and time series analysis. Prerequisite: Quantitative Analysis 85.

87. Quantitative Methods. Sem. 1. 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: Quantitative Analysis 85 and Mathematics 36.

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 72.

144. Mathematical Models in the Social Sciences. (Also offered as Mathematics 163.) Sem. 1. Cr. 3. This course is intended for mathematics minors who major in a social science. Topics will be chosen according to the interests of the students. These may include linear and dynamic programming, the Estes learning model, inventory models, Leontief input-output model, and simulation techniques. Prerequisites: Mathematics 36 and 53 or the equivalent. (Offered upon sufficient demand.)

187. Advanced Quantitative Methods. Sem. 2. Cr. 3. A continuation of Quantitative Analysis 87. The course considers models covered in Quantitative Analysis 87 in more depth and also covers new topics such as game theory, dynamic programming, and Markov analysis. Prerequisite: Quantitative Analysis 87.
THE DEPARTMENT OF ECONOMICS

Professor Laube (Acting Chairman); Professor Goehring; Assistant Professors Bernard, Lesnick, and Noller

COURSES IN ECONOMICS

71. PRINCIPLES OF ECONOMICS. Each sem. Cr. 3. An introductory study of the central functions and problems of an economic system with emphasis upon the institutions characterizing the American economy. No prerequisite.


73. GENERAL ECONOMICS. Each sem. Cr. 3. An introduction to the techniques of economic analysis and a survey of major economic institutions and problems. Prerequisite: Registration in the College of Engineering. (Not open to students who have taken Economics 71.)

107. COMPUTER PROGRAMMING AND NUMERICAL COMPUTATION. (Also offered as Mathematics 84.) Each sem. Cr. 3. The purpose of this course is to acquaint the student with computer programming languages including machine languages Fortran, Algol, and Cobol. Application of these languages is made to the programming of simple arithmetic and algebraic problems including elementary statistical measures. Prerequisites: Mathematics 35 and 36 or the equivalent and Economics 72, plus either a statistics or a mathematics course numbered above 36 or its equivalent. Laboratory fee, $10.00.


173. COMPARATIVE ECONOMIC SYSTEMS. Sem. 1. Cr. 3. A comparative analysis of contemporary systems of economic organization, including socialism, communism, capitalism, and their variants. Prerequisites: Economics 71 and 72.

174. PUBLIC FINANCE. (Also offered as Finance 166.) 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.

175. ECONOMIC INSECURITY AND SOCIAL INSURANCE. Sem. 2. Cr. 3. An analysis of the socio-economic risks of accident, disease, unemployment, old age, poverty, and the social insurance and welfare programs designed to meet these risks. Prerequisites: Economics 71 and 72.

176. (Formerly Foreign Exchange and Trade.) INTERNATIONAL ECONOMICS. Sem. 2. Cr. 3. A study of the theory underlying and 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 man. Prerequisites: Economics 71 and 72 and junior standing in the College.

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.
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.

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. **Problems in Economics.** Each sem. Cr. 1-3. A course in which a special topic in economics will be given intensive study. The topic will vary from year to year. Prerequisite: senior standing in the College or consent of the chairman of the department.

275. **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 and junior standing in the College.

281. **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 and junior standing in the College.

282. **Intermediate Macro-Economic Theory.** Sem. 2. Cr. 3. A critical examination of theories of national income determination and of techniques for measuring and analyzing aggregate economic activity. Prerequisites: Economics 71 and 72 and junior standing in the College.

286. **The History of Economic Thought.** Sem. 2. Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisites: Economics 71 and 72 and junior standing in the College.
college of engineering
THE COLLEGE OF ENGINEERING

Professor Kruger (Dean); Professor Hesse (Dean Emeritus); Professor Mortimer (Secretary)

CURRICULA AND DEPARTMENTS

The College of Engineering offers four-year curricula leading to the degree of Bachelor of Science in Civil, Electrical, and Mechanical Engineering. These programs are accredited by the Engineers' Council for Professional Development. A five-year program is also offered for students desiring to earn the degree of Bachelor of Arts in addition to the degree of Bachelor of Science.

The College of Engineering is a member of the Engineers' Council for Professional Development and an institutional member of the American Society for Engineering Education.

ENGINEERING EDUCATION AT VALPARAISO UNIVERSITY

The engineer today occupies a unique and important position in society. Being a person basically trained in the physical sciences, the engineer is called upon to make important technical decisions that affect the conditions under which people live, work, and play. Today's industrial systems have become so complex that the person who manages them must be well versed in all the technical phases of industry. More and more engineers are being called upon to serve as managers of plants, advisers to governmental bodies, and directors of major scientific projects. It is, therefore, obvious that an engineer must be more than a technically competent person. Valparaiso 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 of Engineering has, therefore, been made an integral part of the University in order to give the student an opportunity to participate in all phases of University life.

ACADEMIC PROGRAM

The academic program of the College of Engineering of Valparaiso University is intended to prepare the undergraduate student to enter either industry or graduate school by giving him a good general education and by developing in him an understanding of the fundamental engineering sciences and techniques.

The program of the engineering student therefore includes a variety of courses in the liberal arts. The work of the first two years is designed to give the student a good general education including a firm foundation in mathematics and the physical sciences. In the last two years, on the other hand, the student receives the broadest possible training in the particular field of engineering that he has chosen.

LOCATION

Valparaiso 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 of Engineering constitutes a separate administrative and instructional unit of the University and is under the direction of the Dean of the College of Engineering. It is divided into the Department of Civil Engineering, the Department of Electrical Engineering, and the Department of Mechanical Engineering. Other departments will be added only as demands and facilities warrant. Present plans call for the utmost development of the existing departments before any additions are made.

**PLANT AND FACILITIES**

The College of Engineering is located in the Gellersen Engineering-Mathematics Center. This new 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 of Engineering, 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 the Department 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.

Fluids Mechanics Laboratory—This laboratory contains apparatus for instructional use and also for student and staff research activities. The equipment includes: devices for measuring fluid pressure, discharge and velocity, Reynolds number apparatus, smoke tunnel, a tilting flume, subsonic wind tunnel, a water table, a pipe network, electric analog equipment, a pump-Pelton wheel-impulse rig, a Hele-Shaw unit, a set of instructional films and miscellaneous supporting apparatus.

Environmental Engineering Laboratory—This laboratory is equipped with apparatus required for physical, chemical, and bacteriological analyses of air, water, and waste water. 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 engineer-
ing 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 the Department of Electrical Engineering**

Systems Analysis Laboratory—This laboratory is equipped with electro-mechanical and electro-hydraulic devices and components, transducers, recorders, and breadboard apparatus. Analog computers and special measuring devices are used for component modeling and system studies.

Electrical Science Laboratory—Instruction in basic electrical instrumentation and circuit testing is given in this laboratory. Eight work stations are equipped with signal generators, power supplies, oscilloscopes, metering and components necessary for study of elementary electrical and electronic circuitry. Electric and electromechanical systems are modeled and tested.

Junior Laboratories—Two laboratory rooms are equipped with the necessary instrumentation and devices for conducting studies in semiconductor electronics, active and passive networks, transmission media and signal spectra.

Microwave Laboratory—This laboratory is equipped with the necessary instrumentation for making precision measurements of electrical quantities at all frequencies. It also contains the necessary signal sources, cabling, wave guides, and auxiliary equipment for the study of the propagation of electrical energy at high frequencies.

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. In addition to conventional motors and generators, special educational machines and a Westinghouse Generalized Machine are available for study.

Logic and Communication Theory—This laboratory is equipped with noise and signal generating equipment, modulation testing devices and special measuring devices required to study the transmission of information. It also contains various control and logic devices which permit the simulation and testing of control and switching system logic.

**The Laboratories of the Department of Mechanical Engineering**

Energetics—This laboratory is equipped for the study of mobile power sources. Equipment consists of reciprocating and rotating (Wankel) spark ignition and compression ignition engines, gas turbine, fuel cell and associated measurement and analysis instruments.

Experimental Stress—This laboratory contains the necessary equipment for experimental studies of stress and strain distribution using Brittle coatings, photoelasticity, electrical strain gage, and Birefringent coating.

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, and a supersonic wind tunnel for the study of heat transfer and compressible fluid flow.
Manufacturing Processes—This laboratory contains a small but complete up-to-date machine shop and foundry. It is equipped to conduct fundamental metallurgical studies, machine tool measurements, and production method studies.

Measurements and Controls—This laboratory contains the equipment for measurement in the areas of pressure, temperature force, torque displacement and fluid flow. Equipment for both static and dynamic studies are available. The laboratory is also equipped with standard process control devices as well as complete process systems and process analogs.

Vibrations and Sound—This laboratory contains a vibration table, electrical vibration excitation equipment, system models, and vibration and sound measuring instrumentation.

Interdepartmental Laboratories

The Computer Center—The digital computer laboratory, which is under the administrative direction of the mathematics department, 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 an IBM 1711 digital computer system complete with analog to digital and digital to analog interface equipment and disc pack memory console. The Center also houses the necessary accessory devices such as printers, sorters, key punches, and data link terminals from each of the engineering bays. This system is used for academic purposes only.

Analog Computer Laboratory—This laboratory is equipped with electronic analog computers, function generators, and output devices required for the simulation of various engineering problems and processes on the analog computer.

STUDENT ORGANIZATIONS

Professional development of the 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 students of the College of Engineering.

The Engineering Supply Store is a student controlled and operated non-profit store that supplies the students with engineering materials at reduced prices. The surplus earnings of the store are used to finance the activities of the Engineering Society.

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 Tau Beta Pi, the national engineering honorary fraternity. The Delta Indiana chapter of Tau Beta Pi was installed at Valparaiso University on March 23, 1963.
The chapter of Tau Beta Pi serves to replace Appian 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 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 at a convenient time in the spring of each year at Valparaiso University and at other institutions offering accredited engineering programs.

**FIVE-YEAR PROGRAM**

The five-year program leads to the degree of Bachelor of Arts in addition to the degree of Bachelor of Science.

A student may earn the two degrees in five years (ten semesters) by completing one of the engineering curricula and completing the General Education Requirements of the B. A. degree as well as one of the academic majors for that degree. This will require him to earn 166 credit hours and to have a standing of at least one (1.0) in all his 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.

**ADMISSION**

The requirements for admission to the first-year class in Engineering are set forth on page 95 of this bulletin.

**REQUIREMENTS FOR GRADUATION**

In addition to the requirements for graduation set forth on page 103 of this bulletin, the student must complete one of the prescribed curricula.

**THE COLLEGE OF ENGINEERING AND CHRIST COLLEGE**

Certain students enrolled in the College of Engineering 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 of Engineering, 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 in place of up to six semester credits during his senior year. Details of this program may be obtained from the office of the Dean of the College of Engineering.

**INSPECTION TRIPS**

Inspection trips to industrial plants are required of all engineering students. These trips 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 two years are common for 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>Lecture</th>
<th>Lab</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus I</td>
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<td>Religion</td>
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<td>Introduction to Engineering</td>
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<td>Energy Systems/Mechanics-Statics</td>
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<tr>
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**2-0-2**

Total Credits: 14/13 2/6 15

### Second Semester

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<td>Calculus II</td>
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<td>Exposition and Argument</td>
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**1-4-2**

Total Credits: 15/16 6/2 17

## SECOND YEAR

(For Students enrolled before September, 1971)

### First Semester

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<th>Course</th>
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<td>Thermodynamics</td>
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**17 3 18**

### Second Semester

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<td>Applied Mechanics II</td>
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**16 3 17**

*A transfer student may apply a maximum of 6 credits in religion from his 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.

Students who fail to pass an examination in the fundamentals of English usage given to all new students are required to take a non-credit course in Fundamentals of Writing.
### Third Year

#### First Semester

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<tr>
<th>Course Code</th>
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<tr>
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<tr>
<td>CE 103</td>
<td>Mechanics of Materials</td>
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<tr>
<td>CE 106</td>
<td>Fluid Mechanics I</td>
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<tr>
<td>EE 130</td>
<td>Applied Electrical Engineering</td>
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<td>GE 159</td>
<td>Digital and Analog Methods</td>
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<td>Fundamentals of Speech</td>
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<td>CE 109</td>
<td>Structural Analysis I</td>
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<tr>
<td>CE 110</td>
<td>Civil Engineering Laboratory I</td>
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<tr>
<td>CE 111</td>
<td>Civil Engineering Laboratory II</td>
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<tr>
<td>CE 121</td>
<td>Soil and Foundation Engineering</td>
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<tr>
<td>CE 164</td>
<td>Environmental Engineering I</td>
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<tr>
<td>CE 165</td>
<td>Environmental Engineering II</td>
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<tr>
<td>CE 197</td>
<td>Civil Engineering Project I</td>
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### Fourth Year

#### First Semester

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<td>CE 115</td>
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<tr>
<td>CE 116</td>
<td>Structural Design I</td>
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<td>CE 165</td>
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<td>CE 166</td>
<td>Environmental Engineering III</td>
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<td>Experimental Stress Analysis</td>
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#### Second Semester

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<tr>
<td>CE 117</td>
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<td>CE 160</td>
<td>Engineer in Society</td>
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<td>CE 163</td>
<td>Transportation</td>
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<td>CE 198</td>
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<td>Natural Science or Math Elective</td>
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Total Credits, 136
THE DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Shewan (Chairman); Professor Dauberman; Associate Professors Luecke, Vater, and Vocke; Assistant Professor Schoech; Mr. Hart

CURRICULUM

THIRD YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>EE 131. Electromagnetic Field Theory</td>
<td>EE 134. Materials Science</td>
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<tr>
<td>EE 135. Network Analysis I</td>
<td>EE 136. Network Analysis II</td>
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<tr>
<td>EE 140. Engineering Electronics I</td>
<td>EE 141. Engineering Electronics II</td>
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<td>EE 132. Junior EE Laboratory I</td>
<td>EE 133. Junior EE Laboratory II</td>
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<td>GE 159. Digital and Analog Methods</td>
<td>CE 106. Fluid Mechanics I</td>
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FOURTH YEAR

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<tbody>
<tr>
<td>EE 142. Engineering Electronics III</td>
<td>EE 158. Communication Theory</td>
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<tr>
<td>EE 151. Energy Conversion</td>
<td>EE 154. System Theory II</td>
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<td>EE 153. System Theory I</td>
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<td>Add two of the following:</td>
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<td>EE 156. Servomechanism Design</td>
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<td>PS 121. Experimental Physics</td>
<td>EE 148. Logic Design Approved Engineering or Mathematics Elective</td>
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<tr>
<td>EE 149. Topics in EE</td>
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<td>or EE 149. Topics in EE 2 0 2</td>
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### CURRICULUM

#### THIRD YEAR

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<tbody>
<tr>
<td>CE 103. Mechanics of Materials</td>
<td>GE 159. Digital and Analog Methods</td>
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<tr>
<td>ME 171. Thermo-dynamics II</td>
<td>CE 110. Civil Engineering Laboratory</td>
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<td>ME 186. Manufacturing Processes I</td>
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<td>ME 180. Mechanism R Required Religion Course</td>
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<td>ME 189. Manufacturing Processes II</td>
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<td>ME 173. Mechanical Measurements</td>
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#### FOURTH YEAR

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<tr>
<td>ME 190. Engineering Systems Analysis I</td>
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<tr>
<td>ME 174. Mechanical Engineering Laboratory</td>
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<td>Sp 40. Fundamentals of Speech</td>
<td>ME 175. Air Conditioning</td>
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<td>ME 178. Gas Dynamics</td>
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<tr>
<td>ME 181. Automatic Control</td>
<td>ME 182. Vibrations</td>
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<tr>
<td>ME 176. Energetics</td>
<td>M Advanced Mathematics Course</td>
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<td>ME 105. Experimental Stress</td>
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<td>Analysis</td>
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<td>Bi 203. Human Environmental Biology</td>
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<tr>
<td>14 13 18</td>
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</table>

| Total Credits                  |                                      |
| 14 9 17                        |                                      |

Total Credits, 136
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 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 26. INTRODUCTION TO ENGINEERING. Sem. 1. 2+0, Cr. 2. An introductory course in engineering methods and applications. Numerical logic, dimensional integrity and calculations are performed using both slide rule and small calculators. The engineering profession in the academic areas of Civil, Electrical, and Mechanical engineering, is introduced by Departmental Chairman and through field trips to local industries.

GE 63. ENGINEERING SCIENCE I. Each sem. 2+0, Cr. 2. An introduction to the theory of wave motion with specific application to sound and physical optics. Prerequisite: Mathematics 76 or concurrent registration.

GE 64. ENGINEERING SCIENCE II. Sem. 2. 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 70. THERMODYNAMICS. Each sem. 3+0, Cr. 3. The study of the laws of thermodynamics and the general energy equation. The theory of gas processes and gas cycles with applications to gas compressors and gas engines. Prerequisite: Mathematics 76 or concurrent registration. (Not offered after Spring 1972.)

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 93. APPLIED MECHANICS I. Each sem. 4+0, Cr. 4. Statics: resolution and composition of forces; moments; principles of equilibrium and application to trusses and mechanical frames; friction; centroids and second moments of areas. Prerequisite: Mathematics 75 or concurrent registration. (Not offered after Spring 1972.)
GE 94. APPLIED MECHANICS II. Each sem. 3+0, Cr. 3. A basic course in kinetics. 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 93.

GE 97. ELECTRICAL SCIENCE I. Each sem. 3+3, Cr. 4. An introduction to electric and magnetic fields and to the fundamental laws of electricity and the application of these laws to the development of electric circuits. Properties of linear circuit elements; Kirchhoff's laws; Thevenin and Norton equivalent circuits; the response of linear circuits to DC and AC energy sources; and the definitions of effective values and average power of periodic waveforms. Prerequisite: Mathematics 76 or concurrent registration and GE 93.

GE 98. ELECTRICAL SCIENCE II. Each sem. 3+3, Cr. 4. A continuation of GE 97. Principles and applications of electronic devices such as diodes and transistors; electromagnetic devices such as solenoids, transformers, and rotating machines; and transducers such as strain gauges, thermocouples, photocells, and Hall effect devices. Prerequisite: GE 97 or the equivalent. Laboratory fee, $10.00.

GE 159. DIGITAL AND ANALOG METHODS. Each sem. 3+0, Cr. 3. An introductory course in the use of digital and analog computers: programming for the digital computer in algorithmic language, selected topics in numerical analysis, the programming of linear problems on the electronic differential analysis (analog) computer with emphasis on engineering applications. Prerequisites: Mathematics 78 and junior standing in the College.

GE 195. SENIOR PROBLEM. Each Sem., variable credit, not to exceed a maximum of 3 credits per semester, and not to exceed a total of 6 credits. Selected students are permitted to work out a special problem in their particular field under the supervision of a member of the faculty. Each student will be required to keep a progress notebook and to turn in a final report, typed in triplicate and in approved form. Open only to students with acceptable senior standing upon permission of the faculty and approval of the Dean of the College of Engineering.

THE DEPARTMENT OF CIVIL ENGINEERING

CE 100. SURVEYING. Sem. 1. 1+3, Cr. 2. Theory of distance and angular measurements, theory of errors, introduction to the use of surveying instruments with field practice, route surveying. Prerequisites: GE 26 and Mathematics 76. Laboratory fee, $10.00.

CE 103. MECHANICS OF MATERIALS. Each sem. 3+0, Cr. 3. Concepts of stress and strain; stress-strain relations; plane states of stress and strain at a point; elementary analysis of stress distributions and deformations; axial loading, torsion of circular shafts, shear force and bending moment diagrams, elementary theory of bending. Introduction to statically indeterminate problems. The continuous beam; conjugate beam method; introduction to the buckling of columns. Prerequisites: Mathematics 77 and GE 93.

CE 106. FLUID MECHANICS I. Each sem. 2+0, Cr. 2. An examination of the characteristics of fluids and the principles of fluid flow including: a study of fluid statics; derivation of mass conservation, Bernoulli and linear momentum equations; application of basic equations and concepts to analysis of flow measuring devices; closed conduit and open channel flow, turbomachinery, flow about objects and other fluid phenomena. Prerequisite: GE 94.

CE 107. MATERIALS ENGINEERING. Sem. 2. 1+0, Cr. 1. A study of the relationship between the structural and the mechanical properties of engineering materials. The elementary concepts of yielding and fracture are presented along with Failure Theories. The influence of fatigue, impact, and creep loadings on the behavior of materials at both high and low temperature is studied. Prerequisites: CE 103 and concurrent registration in CE 110.
CE 109. STRUCTURAL ANALYSIS I. Sem. 2. 4+0, Cr. 4. Analytical and graphical methods for the determination of axial, flexural, shearing, and torsional stresses and their resulting deflections. Common structural forms of both determinate and indeterminate types such as bridge and roof trusses, cable-structures, beams and frames will be treated. Influence line theory and energy methods will be introduced. Prerequisite: CE 103.

CE 110. CIVIL ENGINEERING LABORATORY I. Sem. 2. 0+3, Cr. 1. Experimental studies of the mechanical properties of engineering materials under different loadings and environmental conditions and the static and dynamic behavior of fluids. Prerequisites: CE 103, CE 106, and concurrent registration in CE 107.

CE 111. CIVIL ENGINEERING LABORATORY II. Sem. 2. 1+3, Cr. 2. The application of basic principles in the experimental study of: concrete proportioning; soil properties; water quality; and waste water characteristics. The use and interpretation of experimental results in engineering problems. Prerequisites: Concurrent enrollment in CE 164 and CE 121. Laboratory fee, $10.00.

CE 113. FLUID MECHANICS II. Sem. 1. 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, advanced flow about objects and other items of current interest. Prerequisites: CE 106 and GE 159.

CE 115. STRUCTURAL ANALYSIS II. Sem. 1. 2+0, Cr. 2. Introduction to stiffness concept in approaching stress-deflection relationships applied to beams and frames, trusses, and grid and plate structures. Moment distribution; effect of stability on stiffness; deflection theory for arches and suspension bridges. Prerequisites: GE 159 and CE 109.


CE 117. STRUCTURAL DESIGN II. Sem. 2. 3+0, Cr. 3. The design of reinforced concrete structures with emphasis on slabs and continuous frame members. The design of total structural steel systems as relates to bridges, mill buildings, and high rise buildings. Prerequisites: CE 115 and CE 116.

CE 121. SOIL AND FOUNDATION ENGINEERING. Sem. 2. 3+0, Cr. 3. The study of physical, mechanical, and hydraulic properties of soil. Theoretical soil mechanics, including earth pressure, slope stability, pressure distribution and settlement, and flow through permeable media. Bearing capacity analysis of shallow and deep foundations. Field trips required. Prerequisites: CE 103 and CE 106.

CE 160. ENGINEER IN SOCIETY. Sem. 2. 2+0, Cr. 2. The discussion of selected topics involved in the interaction between the engineer and his sociological environment. Included will be topics from the fields of law, ethics, and economics; the application of these topics to engineering practice through case studies. Prerequisite: senior standing in the College.

CE 163. TRANSPORTATION. Sem. 2. 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 121.

CE 164. ENVIRONMENTAL ENGINEERING I. Sem. 2. 3+0, Cr. 3. The general aspects of man and his environment and the effects of pollution on nature's resources. Among topics considered are: water supply and waste water problems; solid waste disposal; and the study of air and water quality criteria. Field trips are required. Prerequisites: CE 106 and concurrent registration in CE 111.

CE 165. ENVIRONMENTAL ENGINEERING II. Sem. 1. 3+0, 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. 3+0, Cr. 3. The history of the air pollution problem. Studying the different types of pollutants and their effect on the environment as well as investigating 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 197. CIVIL ENGINEERING PROJECT I. Sem. 1. 1+0, Cr. 1. 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.

CE 198. CIVIL ENGINEERING PROJECT II. Sem. 2. 0+6, Cr. 2. A continuation of the project selected in CE 197.

THE DEPARTMENT OF ELECTRICAL ENGINEERING

EE 130. APPLIED ELECTRICAL ENGINEERING. Each sem. 3+0, Cr. 3. A course for the non-electrical engineering student. Emphasis is placed upon electronic electromechanical and electromagnetic devices, electrical instrumentation and control of industrial processes. Prerequisite: GE 98.

EE 131. ELECTROMAGNETIC FIELD THEORY. Sem. 1. 3+0, Cr. 3. A study of the fundamental laws of static and dynamic electric and magnetic fields. Maxwell's equations; applications to boundary value problems including transmission lines and traveling waves. Prerequisites: Mathematics 77 and GE 63.

EE 132. JUNIOR EE LABORATORY I. Sem. 1. 0+6, Cr. 2. This laboratory meets two sessions per week. Experiments are related to theory course work required of the third year electrical engineering student. Prerequisite: junior in good standing enrolled in the College. Laboratory fee, $20.00.

EE 133. JUNIOR EE LABORATORY II. Sem. 2. 0+6, Cr. 2. A continuation of EE 132. Prerequisite: EE 132. Laboratory fee, $20.00.

EE 134. MATERIALS SCIENCE. Sem. 2. 3+0, Cr. 3. A study of the fundamental properties of materials. Topics include the thermal properties of solids; magnetic properties of materials; and the electric properties of metals, semiconductors and insulators. Prerequisite: EE 131.

EE 135. NETWORK ANALYSIS I. Sem. 1. 3+0, Cr. 3. A study of electrical networks, utilizing classical and operational techniques. Impulse response, deterministic response, convolution and the principle of superposition. Fourier series; frequency domain analysis of networks; network topology, and matrix algebra. Prerequisite: GE 98.

EE 136. NETWORK ANALYSIS II. Sem. 2. 3+0, Cr. 3. A continuation of EE 135 with particular emphasis upon the analysis and synthesis of one port and two port networks. Multiport networks, filter design techniques, frequency response and loci of networks are investigated. Digital computer methods are stressed. Prerequisite: EE 135.

EE 140. ENGINEERING ELECTRONICS I. Sem. 1. 3+0, Cr. 3. The first of a three course sequence in the principles and applications of electronic devices. A study of semiconductor theory as it applies to diodes and transistors; the steady state switching characteristics of diodes and transistors; clipping, clamping, and comparator circuits; and transistor amplifiers and their biasing circuits. Prerequisite: GE 98.

EE 141. ENGINEERING ELECTRONICS II. Sem. 2. 3+0, Cr. 3. A continuation of EE 140. The analysis and design of amplifiers. Power and small signal amplifiers, multiple transistor circuits, integrated circuits, multivibrator and logic circuits, oscillators, field effect transistors and vacuum tube amplifiers. Prerequisite: EE 140.
EE 142. **Engineering Electronics III.** Sem. 2. 3+0, Cr. 3. The third course in the electronic series. Special emphasis is placed on the synthesis of systems using electronic devices. Topics of interest include the frequency response of amplifiers, the operational amplifier and its applications, and active filter design, feedback in amplifiers, and switching characteristics of semiconductor devices. Prerequisite: EE 141.

EE 144. **Microwaves.** Sem. 1. 2+3, Cr. 3. An introduction to guided waves, microwave devices and systems, with a detailed study of waveguides, microwave circuit theory, and antennas. Laboratory experimentation emphasizes precise measuring technique and system performance. Prerequisite: EE 131. Laboratory fee, $10.00.

EE 148. **Logic Design.** Sem. 2. 3+0, Cr. 3. A study is made of Boolean algebra, basic logic circuits. Truth tables and Karnaugh maps are utilized in the design of combinational logic networks. State diagrams are employed in the study and design of sequential logic networks. Prerequisite: EE 141.

EE 149. **Topics in Electrical Engineering.** Each sem. Cr. 2 or 3. The investigation of electrical engineering topics of special interest. Prerequisite: consent of the chairman of the department. (Offered upon sufficient demand.)

EE 151. **Energy Conversion.** Sem. 1. 3+3, Cr. 4. A study of electromagnetic devices with emphasis on the principles and operating characteristics of transformers and rotating electrical machines. Direct current machines; single phase and polyphase transformers, synchronous machines, inductive machines and fractional horsepower motors. Prerequisite: GE 98. Laboratory fee, $10.00.

EE 153. **System Theory I.** Sem. 1. 3+0, Cr. 3. A study of the techniques needed for the analysis of linear systems. Dynamic equations of linear lumped parameter systems; state variable formulation for continuous-time and discrete-time systems; time domain and frequency domain techniques; Random processes, power spectral density, and correlation functions. Prerequisite: EE 136.

EE 154. **System Theory II.** Sem. 2. 3+0, Cr. 3. A continuation of EE 153. Discrete-time systems; Random signals in linear systems; optional control techniques in linear and non-linear systems, and selected special topics. Prerequisite: EE 153.

EE 156. **Servomechanism Design.** Sem. 2. 2+3, Cr. 3. The performance and compensation of feedback control systems are investigated. The identification problem and representation problem are solved using time-domain and frequency-domain methods. Electro-mechanical and electro-hydraulic components and systems are available in the laboratory. Each laboratory team investigates a special problem as part of its laboratory experience. Prerequisite: EE 153. Laboratory fee, $10.00.

EE 158. **Communication Theory.** Sem. 2. 3+0, Cr. 3. The effects of system bandwidth and noise on the transmission of information; amplitude modulation; frequency modulation; pulse modulation; sampling theorem; information measure; channel capacity; and the application of statistical methods. Prerequisite: EE 153.

THE DEPARTMENT OF MECHANICAL ENGINEERING

ME 105. **Experimental Stress Analysis.** Sem. 1. 3+0, Cr. 3. An introduction to experimental methods for measuring stresses and strains including: Brittle coatings, photoelasticity, electrical strain gages, Birefringent coatings, and Moiré grids. The theoretical and experimental analysis of stress distributions in machine and structural components subjected to various loadings. Prerequisites: Mathematics 78 and CE 103.
ME 171. THERMODYNAMICS II. Sem. 1. 3+0, Cr. 3. The study of the properties of fluids and vapors including use of vapor tables and charts; flow of fluids in nozzles; combustion calculations; vapor cycles and steam power applications; mixtures of vapor and gases; refrigeration and principles of heat transfer. Prerequisite: GE 70.

ME 173. MECHANICAL MEASUREMENTS LABORATORY. Sem. 2. 1+3, Cr. 2. Investigations into typical industrial and laboratory primary transducers and read out equipment in the mechanical measurement areas. Dynamic as well as static measurements are emphasized. Prerequisite: GE 70. Laboratory fee, $10.00.

ME 174. MECHANICAL ENGINEERING LABORATORY. Sem. 1. 0+4, Cr. 1. A laboratory course in the prediction and verification of the performance of typical mechanical equipment in the areas of automatic control, mechanical energy conversion, and heat transfer. Prerequisites: ME 171 and ME 173. Laboratory fee, $10.00.

ME 175. AIR CONDITIONING. Sem. 2. 3+0, Cr. 3. Basic calculations for capacity and selection of equipment for heating, ventilating, and air conditioning. Design and specifications for complete systems covering both human comfort and industrial process work. Prerequisite: ME 171.

ME 176. ENERGETICS. Sem. 1. 3+0, Cr. 3. A study of the principal characteristics of various mobile prime power sources such as: reciprocating and rotating spark ignition and compression ignition engines, gas turbines, rockets, fuel cells, etc. Analysis of the theoretical and actual thermodynamic cycles of each power source. Prerequisite: ME 171.

ME 177. HEAT TRANSFER. Sem. 1. 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: ME 171.

ME 178. GAS DYNAMICS. Sem. 2. 3+0, Cr. 3. A study of one and two dimensional gas dynamics including flow in a duct, normal and oblique shocks, Prandtl-Meyer expansion and irrotational flow. Prerequisite: ME 171.

ME 180. MECHANISM. Sem. 1. 2+3, Cr. 3. A study of the kinematics of mechanisms and machines by analytical and graphical media; linkages, cams, flexible connectors, gearing, gear trains. Prerequisites: Mathematics 77 and GE 93.

ME 181. AUTOMATIC CONTROL. Sem. 1. 3+0, Cr. 3. Basic fundamentals of instrumentation with particular application to process control. System dynamics and stability concepts using step, ramp and frequency response techniques. Prerequisite: Mathematics 78.

ME 182. VIBRATIONS. Sem. 2. 3+0, Cr. 3. Vibration analysis; isolation and determination of natural frequencies for various systems, practical aspects of vibration isolation and absorption. Critical speeds. Balancing. Prerequisites: Mathematics 78, GE 94, CE 103.

ME 183. MACHINE DESIGN. Sem. 1. 3+3, Cr. 4. The rational application of material developed in courses in Mechanics of Materials and Mechanism to the design of pressure vessels and machine elements such as fastenings, power screws, belt and chain drives, gearing, couplings, bearings, shafting strength and springs. Empirical design receives emphasis during the first half of the course. Prerequisites: ME 180, CE 103.

ME 185. MACHINE DESIGN. Sem. 2. 3+3, Cr. 4. A continuation of ME 183, with further development of shafting design as related to deflection and critical frequency. Precision gearing and special gear tooth forms are exten-
sively treated, and careful analysis of planetary gearing force relationships and
design, both for conventional and for auxiliary-drive units, is considered. The
practical design of high-speed cams and linkages and analyses of mechanical
frames is treated.

ME 186. MANUFACTURING PROCESSES I. Sem. 1. 2+3, Cr. 3. A study of
engineering elements, tools, materials, and processes industry, fabrication, manu-
facture, and inspection. The principles of welding, metallurgy, casting, machine-
ability of materials, the use and application of machine tools, and press work are
introduced through the medium of lectures, demonstrations, films, and co-
ordinated laboratory experimentation. Field trips to industrial plants are arranged
to supplement the lecture and laboratory demonstrations. Prerequisite: GE 26.
Laboratory fee, $10.00.

ME 189. MANUFACTURING PROCESSES II. Sem. 2. 2+3, Cr. 3. A con-
tinuation of ME 186 with emphasis on materials, facilities, methods, and processes
of mass production in the manufacturing of commercial products. Prerequisite:
ME 186. Laboratory fee, $10.00.

ME 190. ENGINEERING SYSTEMS ANALYSIS I. Sem. 1. 1+3, Cr. 2. The
application of engineering and mathematical techniques in the design of engi-
neering systems. Individual or group problems in the fields of Mechanical
Engineering to be selected by the student. Final written report plus progress
record book must be submitted by each student. Prerequisite: senior standing
in Mechanical Engineering.

ME 191. ENGINEERING SYSTEMS ANALYSIS II. Sem. 2. 0+6, Cr. 2. A con-
tinuation of ME 190.
THE COLLEGE OF NURSING

The College of Nursing offers a four-year curriculum leading to the degree of Bachelor of Science in Nursing. The specific purposes of the College of Nursing are:

1. To provide students with a liberal education.
2. To prepare students as beginning practitioners of nursing in a variety of health care settings.
3. To offer an education which can serve as a basis for graduate study.

In accordance with the philosophy of Valparaiso University, we believe that the responsibility of the College of Nursing is to foster the intellectual, emotional, and spiritual growth of the student as an individual, as a potential member of her profession and as an effective citizen, through a curriculum which combines a program of professional nursing and liberal arts courses and which emphasizes the development of Christian character and the inculcation of Christian ideals. We believe that nursing exemplifies the Christian ideal of service to one’s fellow man.

The curriculum is developed to assist the student to:

1. Acquire and utilize a specific body of knowledge necessary to give safe, effective nursing care.
2. Understand behavior and its significance in health and illness.
3. Communicate effectively and utilize therapeutic inter-personal relationships.
4. Identify the needs of patients for nursing care and rehabilitation and take appropriate action to meet them.
5. Plan and direct nursing care given by others working with her and evaluate the effectiveness of the nursing care.
6. Understand and execute the nurse’s role in the promotion of health and prevention of disease in a well population.

DEGREE REQUIREMENTS OF THE COLLEGE OF NURSING

In order to realize its objectives, the College of Nursing holds the students to the following degree requirements:

A. A minimum of 55 credits in nursing. The specific requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Clinical Nursing</td>
<td>6</td>
</tr>
<tr>
<td>Maternal-Child Health</td>
<td>6</td>
</tr>
<tr>
<td>Nursing in Chronic Illness</td>
<td>6</td>
</tr>
<tr>
<td>Pharmacology in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>Nursing in Acute Illness</td>
<td>8</td>
</tr>
<tr>
<td>Community Nursing</td>
<td></td>
</tr>
<tr>
<td>Psychiatric Nursing</td>
<td>6</td>
</tr>
<tr>
<td>Nursing in the Social Order</td>
<td>3</td>
</tr>
<tr>
<td>Leadership in Nursing Care</td>
<td>6</td>
</tr>
<tr>
<td>Seminar in Clinical Nursing</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>55</strong></td>
</tr>
</tbody>
</table>
B. A minimum of 55 credits from the College of Arts and Sciences. The specific requirements are:

- Exposition and Argument: 4
- Literary Studies: 4
- Abnormal Psychology: 3
- Unity of Life: 4
- Anatomy and Physiology: 4
- Microbiology: 4
- Human Environmental Biology: 3
- General Chemistry (must include laboratory): 6
- Statistics: 3
- Physical Education: 2
- Religion: 9
- Psychology: 3
- Sociology: 3
- Nutrition: 3

C. Electives:

In addition to meeting the requirements in Nursing and Arts and Sciences, the student must present for graduation a sufficient number of electives to bring her total number of semester credits to 124. These electives are to be selected from the offerings of the College of Arts and Sciences.* It is recommended that 6 electives be in the social sciences and 3 in the fine arts.

**SUGGESTED SCHEDULE**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>Chemistry 43</td>
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<td>Chemistry 44</td>
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<tr>
<td>Psychology 51</td>
<td>3</td>
<td>Biology 50</td>
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<tr>
<td>Sociology 53</td>
<td>3</td>
<td>English 5</td>
<td>4</td>
</tr>
<tr>
<td>Religion</td>
<td>3</td>
<td>Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>Liberal Arts Elective</td>
<td></td>
</tr>
<tr>
<td>Liberal Arts Elective</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>17</td>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th></th>
<th>Second Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 110</td>
<td>4</td>
<td>Biology 115</td>
<td>4</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
<td>Psychology 130</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition 7</td>
<td>3</td>
<td>Nursing 52</td>
<td>6</td>
</tr>
<tr>
<td>English 25</td>
<td>4</td>
<td>Nursing 101</td>
<td>2</td>
</tr>
<tr>
<td>Religion</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>17</td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

*Six credits earned in the College of Business Administration may be counted toward a degree of Bachelor of Science in Nursing.
THE COLLEGE OF NURSING

JUNIOR YEAR

First Semester | Second Semester
--- | ---
Nursing 103 | 6 | Nursing 102 | 8
Nursing 105 | 6 | Biology 203 | 3
Religion | 3 | Liberal Arts Elective | 3

Total Credits: 15

TOTAL CREDITS: 15

SENIOR YEAR

First Semester | Second Semester
--- | ---
Nursing 107 | 6 | Nursing 106 | 6
Nursing 109 | 6 | Nursing 108 | 6
Liberal Arts Elective | 3 | Nursing 104 | 3

Total Credits: 15

TOTAL CREDITS: 15

Total Credits: 124

COURSES IN NURSING

52. INTRODUCTION TO CLINICAL NURSING. Sem. 2. 4+6, Cr. 6. Introduces the student to the nature and scope of professional nursing and to fundamental organization, interpersonal, manipulative, and observational skills. Laboratory fee, $20.00.

101. PHARMACOLOGY IN NURSING. Sem. 2. 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 following courses are only open to students who have completed the required natural and social science courses as listed on the preceding page.

102. NURSING IN ACUTE ILLNESS. Sem. 2. 4+12, Cr. 8. 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.

103. MATERNAL-CHILD HEALTH. Sem. 1. 4+6, Cr. 6. 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. Field trip fee, $10.00.

104. 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.

105. NURSING IN CHRONIC ILLNESS. Sem. 1. 4+6, Cr. 6. Focuses on the unique nursing care problems of patients with chronic illness, stressing principles of rehabilitation and the social and economic implications of chronic illness. Transportation fee, $65.00.

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.

107. 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. Field trip fee, $65.00.

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.

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. Field trip fee, $65.00.
UNIVERSITY CALENDAR FOR 1971-1972

For the School of Law

1971

FALL SEMESTER

August 30, Monday, 8:00 A.M. Instruction begins.
September 3, Friday, 8:00 A.M. Registration.
October 9, Saturday. Homecoming Day.
October 22, Friday, 6:30 P.M. Fall recess begins.
October 28, Thursday, 8:00 A.M. Fall recess ends.
November 1, Monday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in May 1972.*
November 23, Tuesday, 10:00 P.M. Thanksgiving recess begins.
November 29, Monday, 8:00 A.M. Thanksgiving recess ends.
December 10, Friday, 6:30 P.M. Instruction ends.
December 11, Saturday, 8:00 A.M. Review period begins.
December 14, Tuesday, 6:30 P.M. Review period ends.
December 15, Wednesday, 8:00 A.M. Final examinations begin.
December 22, Wednesday, 6:30 P.M. Final examinations end. Semester ends.

1972

SPRING SEMESTER

January 10, Monday, 8:00 A.M. Instruction begins.
January 14, Friday, 8:00 A.M. Registration.
March 24, Friday, 6:30 P.M. Easter recess begins.
April 10, Monday, 8:00 A.M. Easter recess ends.
April 28, Friday. LAW DAY, U.S.A.
April 28, Friday, 6:30 P.M. Spring Festival.
April 29, Saturday. Spring Festival.
May 1, Monday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in December 1972.*
May 3, Wednesday, 6:30 P.M. Instruction ends.
May 4, Thursday, 8:00 A.M. Review period begins.
May 7, Sunday. Review period ends.
May 8, Monday, 8:00 A.M. Final examinations begin.
May 15, Monday, 6:30 P.M. Final examinations end. Semester ends.
May 21, Sunday. 98th Annual Commencement.

Certain other dates are observed annually by the University with special convocations or special services.

*Applications will not be accepted after these dates except by approval of the Educational Processes Policy Committee.
school of law
THE SCHOOL OF LAW

Professor A. W. Meyer* (Dean); Professor Bartelt (Acting Dean); Assistant Professor Swygert (Assistant Dean); Professors Gromley, Hiller, Jones, Stevenson**, and Wechsler; Assistant Professors Berner, Nagan, and Thomforde***; Visiting Professor Venturini; Adjunct Assistant Professor Moskowitz; Assistant Professor Hess, Law Librarian

GENERAL INFORMATION

HISTORY—The School of Law 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 the new law building 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 which is granted by the School is approved by the Board of Regents of the University of the State of New York. Valparaiso University, of which the School is an integral part, holds membership in the North Central Association of Colleges and Secondary Schools.

LOCATION AND FACILITIES—The School of Law is housed in its own building completed for occupancy during the late summer of 1963 and located on Valparaiso University's beautiful new campus. This modern law plant including library, classrooms, faculty and student offices, and lounges, was made possible by the gifts of loyal alumni, friends of Valparaiso University, many congregations of The Lutheran Church-Missouri Synod, and especially the generosity of the late Mr. Adolph H. Wesemann and his wife Janette, of LaGrange, Illinois, in whose honor the building is named. This new building is evidence of the determined policy of the Valparaiso University Administration to develop and maintain as an integral part of its educational complex a quality school for the training in law of those who desire it.

Students in the School of Law find it to their advantage that the School 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.

LAW LIBRARY—The law library, which contains approximately 55,000 volumes and government documents, meets the requirements of all accrediting associations. It contains the official and unofficial reports of the Supreme Court 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 appel-

late court reports. In addition, the library also contains the official reports of the appellate courts of several states beyond the National System. 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, and those of Mexico, the American Digest System, state and special digests, a complete set of Shepard's Citators, 288 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 of Law 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 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 of Law of Valparaiso University is distinguished by three characteristics: it is *Christian*, it is *national*, and it is *small*.

*Christian*—The School of Law, 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 third-year student to take the course in jurisprudence, which explores both past and present legal philosophy, as well as the nexus between Christianity and the law.

National—The School of Law 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—The School of Law is a relatively small school. At present, there is a ratio of one instructor to every fourteen students. Classes are small, making maximum participation by each student possible. Easy access to faculty members for personal consultation and advice is a Valparaiso tradition. As the School continues to grow, it plans to maintain this distinctive attribute by adding additional instructors rather than by establishing large classes.

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 of Law 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 extra-curricular activity.

First year students are required to take the following block schedule:

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>119. Torts I</td>
<td>120. Torts II</td>
</tr>
<tr>
<td>121. Criminal Law I</td>
<td>122. Criminal Law II</td>
</tr>
<tr>
<td>123. Contracts I</td>
<td>124. Contracts II</td>
</tr>
<tr>
<td>125. Property I</td>
<td>126. Property II</td>
</tr>
<tr>
<td>129. Procedure I</td>
<td>130. Procedure II</td>
</tr>
<tr>
<td>135. Legal Problems I</td>
<td>136. Legal Problems II</td>
</tr>
<tr>
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</tbody>
</table>

SECOND AND THIRD YEARS

Beginning with the 1971-1972 academic year the second- and third-year curricula will consist of elective courses with the following exceptions. Second-year students are required to take Constitutional Law and either Legal Process or American Legal History. Third-year students are required
to take Jurisprudence, The Legal Profession, and a Seminar. With permission of the dean and the instructor involved, a student may engage in an independent research project during his third year in lieu of the seminar requirement. A substantial paper reflecting the results of his research will be required. Students should consult the description of courses (pages 292 to 296) 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 semi-annually by the students of the School of Law. 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. A series of courses are offered which 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 Law of the Poor 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, a second-year, two-credit hour course titled "Introduction to Legal Aid" is designed to develop basic skills in interviewing, pretrial 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 courses, Clinical Program in Legal Problems of the Poor I and II, allow 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 of Law 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 men from various fields to the campus for special lectures on subjects of interest and importance to law students.
ORGANIZATIONS

1. ALUMNI—The Alumni Association of the School of Law was organized in its present form in 1938 and has devoted itself since to the task of supporting the School of Law. 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.

2. FRATERNITIES—Two intercollegiate law fraternities have chapters on the campus: Phi Alpha Delta and Delta Theta Phi.

3. 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.

4. LAW WIVES—The wives of Law students may participate in the activities of Amicae 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 of Law 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 of Law 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 of Law participates each year in the National Moot Court 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 of Law, 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 of Law 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 a worthy candidate for financial assistance.

A number of other awards are available in the School of Law 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 student may apply for financial aid by executing page four of the form used in applying for admission. Three categories of financial assistance are available:

SCHOLARSHIPS: An applicant is considered academically qualified for a School of Law scholarship when his overall pre-law academic average is approximately a "B" and when his Law School Admission Test score clearly indicates that he should be able to attain such an average in the School of Law. Other qualifications as indicated by his application and credentials may also be taken into consideration.

GRANTS: Limited funds are available in the form of Grants-in-Aid for applicants in critical need of financial assistance who do not qualify for a scholarship but who, in the judgment of the committee, merit such assistance.

LOANS: Applicants seeking loans should file their applications as early as possible. Loan applicants must file the Parents' Confidential Statement with The College Scholarship Service. If the applicant is self-supporting and is not claimed as a dependent for tax purposes he should request a Students' Confidential Statement form. Either form may be obtained by writing to The College Scholarship Service, Box 176, Princeton, New Jersey.

PLACEMENT

The School of Law actively assists graduating seniors seeking positions in the profession. Each year the School of Law, in conjunction with the Student Bar Association, publishes a brochure which includes biographical sketches of the graduating seniors. These brochures are sent to alumni of the school, other lawyers, and business firms who might be interested in engaging the services of young attorneys. Close liaison is maintained with the Placement Service of the University.
The School of Law 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-legal 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 of Law 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 for admission to the School of Law may be obtained by writing to the Dean, School of Law, Valparaiso University, Valparaiso, Indiana. Applications for admission will be accepted starting October 1. Because the beginning class is necessarily limited in size, all application materials must be submitted by March 15.

DEPOSIT REQUIREMENT—The School of Law requires a tuition deposit of $50.00. Applicants admitted must remit this deposit within 15 days of the date of the certificate of admission.

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 registers.

Failure to remit the deposit within the time specified will result in cancellation of the certificate of admission. In such case an applicant who still desires to enroll must reapply for admission.

Applications for admission to the School of Law will be considered only from those persons who have been graduated with a baccalaureate degree or higher degree from Valparaiso University or another college or university accredited by one of the regional associations of colleges.

Application for admission is accomplished by filing the application with the School of Law and by registering with the Law School Data Assembly
Service (LSDAS) of the Educational Testing Service, Princeton, N. J. An LSDAS registration form is provided with each application form but the LSDAS form must be sent directly to the Educational Testing Service, not to the School of Law. 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 baccalaureate degree directly to the School of Law. 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 of Law 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.

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 is transferring is a member of the Association of American Law Schools or is on the approved list of the American Bar Association; (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 scholastic standing meets the requirements of Valparaiso University for advanced standing; (4) that the work which he has completed is similar in character to that which is given at Valparaiso University; and (5) that he has met the entrance requirements of the School of Law 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 at Valparaiso University as many quality points as semester credits in order to be eligible for a degree. In the computation of a student’s standing grades of F earned at Valparaiso University are included.

All candidates for admission to the School of Law, 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 baccalaureate 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 of Law 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.

CHANGE OF PROGRAM—During the first week of the semester, changes of enrollment may be made with the written approval of the Dean. One week after the beginning of the semester students may not add courses. There is no adjustment in the tuition and general fees after the first week of a semester.

Students who wish to drop courses after the first week 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 seventh week of a semester.

Students who wish to drop courses after the first week of the semester should read the regulations regarding grades of W and F. 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 his adviser 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.

SUMMER SCHOOL COURSES—Students enrolled in the School of Law may not transfer credits earned at other law schools during summer sessions without the prior consent of the Dean of the School of Law.

WITHDRAWAL FROM THE UNIVERSITY—A student who wishes to withdraw from the University for the remainder of a semester should apply to the Business Office for a permit to withdraw. Upon return of the permit properly signed, the Registrar will authorize the return of such fees as are refundable. In every case the parent or guardian is notified of the withdrawal by the Vice-President for Student Affairs.

If, during the course of a semester, a student is drafted for service in the armed forces, he will receive a full refund of his tuition and fees. A student living in University housing will receive a pro-rated refund of board and room.
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 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 F to the Registrar.

**COURSE LOAD**

**COURSE LOAD**—The course load for first-year students 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.

**MARKING SYSTEM AND QUALITY POINTS**

Results of work will be recorded in the Registrar’s Office as follows:

A. Excellent; valued at three (3) quality points for each credit.

B. Good; valued at two (2) quality points for each credit.

C. Satisfactory; valued at one (1) quality point for each credit.

D. Less than satisfactory; indicates some deficiency and gives no quality points, but gives credit for graduation.

F. Failure; valued at 0 credits and 0 quality points.

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 passing the course but who has failed to complete a segment of the assigned work of the course because of circumstances beyond his 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 an F. 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 his adviser will receive a grade of F in that subject for the semester.
Only in exceptional cases, such as prolonged or serious illness, will the Educational Processes Policy Committee permit a student to withdraw from a course without a grade of F after the end of the seventh 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 C, 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 97 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 the ratio of his total number of quality points to his total number of credits in all his work at Valparaiso University. Thus, a student who makes an average mark of C throughout a course of 90 semester hours will have 90 quality points, 90 credits, and a standing of one (1.0). An average mark of B will give the student 180 quality points, 90 credits, and a standing of two (2.0). When a semester’s work is to be considered, “standing” is understood to be the ratio of the number of quality points gained to the number of credits scheduled.

CLASS HONORS IN SCHOLARSHIP

A student who achieves a standing of 2.5 in any semester will be awarded class honors, provided that he has received no grades of I or U at the official end of the semester concerned, and that he was registered for at least 12 hours of work for the semester.

First, second, and third year students eligible for honors in scholarship are given special recognition at honors convocations. Graduating senior honors are announced at Commencement and are based on the work of the last two semesters.

CLASSIFICATION

CLASSIFICATION OF STUDENTS—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.

UNCLASSIFIED STUDENTS—Unclassified students are those students who do not 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 of Law at the beginning of each semester.

**SCHOLASTIC REQUIREMENTS**

In the computation of a student’s standing, grades of D and F are included. For students who have completed the work of the second year (or beyond) standing refers to all law work undertaken as well as to all courses undertaken in the required curriculum (page 281.)

A student in the School of Law will be denied permission to continue study in the School of Law if his cumulative grade-point average falls below the minimum cumulative grade-point average indicated in the following table:

<table>
<thead>
<tr>
<th>NUMBER OF CREDIT HOURS PREVIOUSLY UNDERTAKEN</th>
<th>DENIED PERMISSION TO CONTINUE IF GRADE-POINT AVERAGE BELOW:</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>.83</td>
</tr>
<tr>
<td>31-46</td>
<td>.95</td>
</tr>
<tr>
<td>over 46</td>
<td>1.00</td>
</tr>
</tbody>
</table>

In determining the number of hours previously undertaken by a transfer student, the hours for which such student received advanced standing are added to the hours undertaken at Valparaiso University.

Any student whose grade-point average falls below 1.00 is considered to be on scholastic probation.

Students on scholastic probation are ineligible to participate in the activities specified in the Student Handbook, and are also ineligible to hold offices in law fraternities and in the Student Bar Association.

At the close of the fall semester of each year, the Dean of the School of Law may issue a warning to any student whose standing at that time indicates unsatisfactory work.

**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 of Law after an absence of three or more years may no longer be a candidate for a degree on the basis of the catalogue under which he first entered the University, but must fulfill for graduation all the requirements and provisions of the catalogue of the year in which he re-enters the University.

Course, Credit, and Quality Point Requirements—A candidate for graduation must have undertaken a total of 90 credit hours with passing grades in a minimum of 85 credit hours. In addition he must have a standing of one (1.0) in all law work undertaken at Valparaiso University. In the computation of this standing grades of D and F earned at Valparaiso University are included. Credits earned at another law school and for which advanced standing has been given are treated as C grades in the computation.

Residence Requirements—To be eligible for graduation from the School of Law 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 his last 30 hours in residence at Valparaiso University.

Application for Degree—A student who wishes to receive his degree at the end of the Spring Semester 1971-1972 must make formal application for his degree on a form provided for this purpose by the registrar’s office not later than November 1, 1971. Applications will not be accepted after this date except by approval of the appropriate Faculty or University Senate Standing Committee.

Presence at Commencement—A candidate must be present at commencement in order to receive his degree. Degrees are not conferred in absentia, except on special permission from the President.

A student who completes his work toward a degree at the end of the fall semester or the summer session may be granted his degree at that time.

Individual Honors at Graduation

1. Graduation “With High Distinction.” A student who has been in attendance at Valparaiso University at least three years and who has maintained a standing of 2.6 in his work at this institution will be graduated With High Distinction. A student who has been in attendance for only two years must maintain a standing of 2.8 to be eligible for this honor.

2. Graduation “With Distinction.” A student who has been in attendance at least three years and who has maintained a standing of 2.4 in his 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 2.6 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 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 of Law therefore requires each
student to register with the Dean the number of hours per week that he
works.

RESERVATION OF RIGHT TO AMEND RULES AND REGULATIONS

Every student upon admission to Valparaiso University and any of its
departments, colleges, or schools, agrees to abide by their respective rules
and regulations, and any amendments, new rules, or repeals of rules adopted
during such student's period of attendance.

The University, its colleges, and schools reserve the right to adopt new
rules and regulations, repeal or amend existing rules and regulations at
any time.

COURSES IN LAW*

REQUIRED COURSES FOR FIRST-YEAR STUDENTS

119. TORTS I. Sem. 1. Cr. 2. Civil liability for damage to persons and prop-
erty resulting from intentional or negligent conduct. Limitations on liability.
Liability of owners and occupiers of land. Strict liability. The impact of legisla-
tion on common law concepts.

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; combination of persons.

122. CRIMINAL LAW II. Sem. 2. Cr. 2. A continuation of Law 121.

123. CONTRACTS I. Sem. 1. Cr. 3. The general scope and purpose of the
legal protection accorded contracts; mutual assent 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 legal history, comparative law and
modern statutory developments. Primary emphasis is placed on the contract in
litigation, but problems of negotiation, draftsmanship and legal planning are
considered throughout.

124. CONTRACTS II. Sem. 2. Cr. 2. A continuation of Law 123.

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.

*Not more than ten semester credits of Law may be counted toward a degree
offered by the College of Arts and Sciences.
126. PROPERTY II. Sem. 2. Cr. 3. Personal property; possessory interests in chattles, finding, bailment, lien, acquisition of ownership; emblements; fixtures. Real property, general introduction, types of estates in land, equitable estates. Statue of Uses and its effects, waste, covenants running with land.

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; parties.

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 non-legal materials. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 288.

136. LEGAL PROBLEMS II. Sem. 2. Cr. 2. A continuation of Law 135.

SECOND- AND THIRD-YEAR COURSES

161. COMMERCIAL TRANSACTIONS AND CONSUMER PROTECTION I. Sem. 1. Cr. 3. Legal problems in modern commercial practice: the financing and marketing transactions by which goods are produced, moved, stored, protected, and distributed. Particular attention is given to the effects of Uniform Laws and the Uniform Commercial Code.

162. COMMERCIAL TRANSACTIONS AND CONSUMER PROTECTION II. Sem. 2. Cr. 2. A continuation of Law 161.

164. CONSTITUTIONAL LAW. Sem. 1. Cr. 4. 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 Second-year course.)

165. BUSINESS ASSOCIATIONS. Sem. 2. 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.)

167. TAXATION. Sem. 2. Cr. 4. A study of the basic principles of the federal income taxation of individuals.

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 causa mortis. (Prerequisite to Trusts and Estates II.)

170. TRUSTS AND ESTATES II. Sem. 2. Cr. 3. A continuation of Law 169.
175. **American Legal History.** Sem. 2. Cr. 2. A study of the sources and development of Anglo-American law, with particular emphasis on the evolution of American legal institutions since the founding of the Republic and their relation to the social process in the United States.

177-178. **Legal Writing.** Sem. 1. Cr. 1; Sem. 2. Cr. 1. Preliminary participation in Law Review activities. Admission by invitation and permission of the dean only. Students who receive credit with honors are eligible to register for Law Review in the succeeding semester. Grades of S and U are given for this course.

180. **Law Review.** Sem. 2. Cr. 1. Participation in Law Review activities, including the writing, editing and publication of legal notes and articles. Admission by invitation only. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 288.

184. **Law of the Poor.** Sem. 1. Cr. 2. Open to senior students in the various baccalaureate programs of the University with the consent of the instructor. A study of welfare law; the need for remedial legislation, juvenile courts and youth problems; legal problems of housing; education of the poor; indigents accused of crime. (Strongly recommended as a Second-year course for those students intending to register for the Clinical Program courses in the Third year.)

188. **Appellate Advocacy.** Sem. 1. Cr. 2. The preparation of briefs and presentation of oral arguments at the appellate level. The problems are assigned in the form of records on appeal. Students are required to prepare written briefs and present oral arguments on a competitive basis. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 288.

190. **Trial Advocacy.** Sem. 2. Cr. 2. A training course designed to develop through student participation the desired skills of a trial lawyer: pretrial preparation; proving facts in court; closing arguments; attention to the tactical and ethical aspects involved. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 288. Prerequisite: Law 166.

192. **Introduction to Legal Aid.** Sem. 2. Cr. 2. A course designed to develop basic skills in interviewing, pre-trial procedures, and preparation and use of memoranda and trial briefs. Grades of S and U are given for the course which is prerequisite to the third-year Clinical Program courses.


220. **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 Third-year course.)

223. **Family Law.** Cr. 3. The promise to marry and the breach thereof; husband and wife; parent and child; liability of minors in contract and tort.

224. **Conflict of Laws.** Cr. 3. A study of the territorial jurisdiction of courts; the enforcement of foreign judgments; the problems arising when the operative facts of a case are connected with jurisdictions having different rules of law; the control exercised by the federal government.

*Second-year students must elect either Legal Process or American Legal History.*
227. **Administrative Law.** Cr. 3. The development of administrative law; delegation of legislative power; administrative rulemaking, administrative adjudication and finality; judicial review of administrative determinations; extraordinary remedies in administrative cases; various doctrines, long established and new, applying to the administrative process; reviewing specific cases illustrating the foregoing matters.

229. **The Public Order of the World Community.** Cr. 3. A study of the role of authority in the decision-making processes of the world community. Consideration is given to formal prescription and effective practice with respect to the participants in such processes (nation-states, international governmental organizations, political parties, pressure groups, private associations, individuals); arenas of interaction; bases of power; practices; and effects. The principal emphasis is upon the many roles of the nation-state in the value shaping and sharing processes of the world community.

233. **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.

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 jurisdiction of the federal district courts, the relationship of the federal courts to state courts and state law, and the permissible and desirable range of federal judicial power.

237. **Securities Regulation.** Cr. 3. Federal and state regulation of issuance and subsequent sales of corporate securities.

240. **Insurance.** Sem. 2. Cr. 3. A study of insurable interest, concealment, representation, warranty, cause 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.

256. **Federal Estate and Gift Taxation.** Cr. 2. A detailed study of the federal taxation of estates and gifts. Prerequisite to Law 258, Estate Planning.

258. **Estate Planning.** Sem. 2. Cr. 3. 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.** 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 to students not enrolled in the Clinical Program courses. Students registered for the Clinical Program course 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.) Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 288.

273. **Labor Law.** 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.
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.

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 his 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. Sem. 1. Cr. 3, Sem. 2. Cr. 3. Clinical course designed to give students practical work experience while dealing with the legal problems of the poor. Involves students in both civil and criminal litigation, and in the economic and social problems which underlie such litigation. Grades of S and U are given for this course. Students who have registered for the first semester of the Clinical Program will be expected to register also for the second semester. Only in exceptional cases will students be permitted to register for the second semester without having taken the first semester. For explanation of grades see Marking System and Quality Points, page 288. Prerequisites: Law 166 and 192.

In certain courses a small charge will be made for relevant mimeographed materials distributed to the class.
## SUMMARY OF ATTENDANCE

### Summer Session 1970

#### UNDERGRADUATE PROGRAM

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**Special Programs**

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| Special Graduate                      | 82    | 33        | 115       |
| <strong>TOUR</strong>                              |       |           |           |
| Special Undergraduate                 | 5     | 9         | 14        |
| <strong>CHICAGO SEMINAR—URBAN</strong>             |       |           |           |
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# GEOGRAPHICAL DISTRIBUTION OF STUDENTS
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### Day Program Only

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