1. Kinsey Hall
2. Bogarte Hall
3. Heimlich Hall
4. Baldwin Hall
5. The Faculty Club
6. Lembke Hall
7. Heritage Hall
8. Flint House
9. Student Business Association
10. DeMotte Hall
11. 506 Freeman — Faculty Offices
12. 507 Freeman — Faculty Offices
13. LHRAA — 470 College
14. Moody Laboratory
15. 455 Greenwich — The Ghetto
16. Stiles Hall
17. Benton Hall
18. 607 Union — Phi Sigma Epsilon
19. 705 Mound — Sigma Phi Epsilon
20. Altruria Hall
21. 702 Mound — Lambda Chi Alpha
22. 802 Mound
23. 804 Mound — Faculty Offices
24. 812 Mound — Speech & Drama Studio
25. Music Building
26. The Art-Music Building
27. Graland Hall
28. Kroencke Power House
29. Kroencke Hall & University Theatre
30. The Guild Center of Admissions & Financial Aid Offices
31. 818 Union — Security Office & Director of Research
32. The Lake Home Economics Center
33. Gymnasium
34. Athletic Equipment House
35. Dau Hall
36. Kreinheder Hall
37. Memorial Hall
UNIVERSITY CALENDAR FOR 1972-1973

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

1972

MINI SUMMER SESSION
(May 22 - June 15)

SUMMER SESSION
(Seven Weeks)

June 19, Monday, 7:30 A.M.; 1:00 P.M. Instruction begins. Late registration.
July 3 and 4, Monday and Tuesday. No classes.*
August 7, Monday, 7:30 A.M. Final examinations begin.
August 8, Tuesday. Final examinations end. Summer Session closes 5:00 P.M.

FALL SEMESTER

August 28, Monday, 8:00 A.M. Orientation week for freshmen begins.
August 31, Thursday, 8:00 A.M. Registration for upperclassmen.
September 1, Friday, 8:00 A.M. Registration for freshmen and transfer students.
September 4, Monday, 8:00 A.M. Instruction begins.
September 4 - October 20. Dates for first half short courses.
September 8, Friday, 5:00 P.M. Deadline for adding first half short courses.
September 12, Tuesday, 5:00 P.M. Deadline for adding regular courses.
September 22, Friday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
October 16 - October 20. Adjustment period for adding second half short courses (and arranging course intensification).
October 21, Saturday. Homecoming Day.
October 23 - December 15. Dates for second half short courses.
November 1, Wednesday. Last day to file application of candidacy for the bachelor’s degree to be conferred in May or August 1973.**
November 3, Friday, 5:00 P.M. Deadline for withdrawing from regular courses with grade of W.
November 10, Friday, 5:00 P.M. Deadline for withdrawing from second half short courses with grade of W.
November 17, Friday, 10:00 P.M. Thanksgiving recess begins.
November 27, Monday, 8:00 A.M. Thanksgiving recess ends.
December 15, Friday, 6:30 P.M. Instruction ends.
December 18, Monday 8:00 A.M. Final examinations begin.
December 22, Friday, 6:30 P.M. Final examinations end. Semester ends.
December 23, Saturday, 5:00 P.M. Deadline for all grades.

1973

SPRING SEMESTER

January 10, Wednesday. Orientation for new students.
January 11, Thursday, 8:00 A.M. Registration for upperclassmen.
January 12, Friday, 8:00 A.M. Registration for all freshmen and transfer students.
January 15, Monday, 8:00 A.M. Instruction begins.
January 19, Friday, 5:00 P.M. Deadline for adding first half short courses.
January 23, Tuesday, 5:00 P.M. Deadline for adding regular courses.
February 2, Friday, 5:00 P.M. Deadline for withdrawing from first half short courses with grade of W.
February 26 - March 2. Adjustment period for adding second half short courses (and arranging course intensification).
March 2, Friday, 6:30 P.M. Spring recess begins.

*Classes made up on Saturday, July 8 and 22.
**Applications will not be accepted after these dates except by approval of the Educational Processes Policy Committee.
### UNIVERSITY CALENDAR

**March 19, Monday, 8:00 A.M.** Spring recess ends.

**March 19 - May 7.** Dates for second half short courses.

**March 30, Friday, 5:00 P.M.** Deadline for withdrawing from regular courses with grade of W.

**April 6, Friday, 5:00 P.M.** Deadline for withdrawing from second half short courses with grade of W.

**April 20, Friday.** Vacation day.

**April 27, Friday, 6:30 P.M.** Spring Festival.

**April 28, Saturday.** Spring Festival.

**May 1, Tuesday.** Last day to file application of candidacy for the bachelor's degree to be conferred in December, 1973.

**May 7, Monday, 6:30 P.M.** Instruction ends.

**May 8-9.** Reading days.

**May 10, Thursday, 8:00 A.M.** Final examinations begin.

**May 15, Tuesday, 6:30 P.M.** Final examinations end. Semester ends.

**May 16, Wednesday, Noon.** Deadline for grades for all candidates for all degrees.

**May 18, Friday, 5:00 P.M.** Deadline for all grades.

**May 20, Sunday.** 99th 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.

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**1972**

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Concordia (Junior) College, Milwaukee, Wisconsin; Concordia Senior College, Fort Wayne, Indiana (B.A., 1963); Concordia Theological Seminary, St. Louis, Missouri; The University of Chicago (M.A., 1965); University of Wisconsin.

†JAMES WILLIAM ALBERS, S.T.M., Assistant Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin; Concordia Senior College, Fort Wayne, Indiana (B.A., 1959); Concordia Theological Seminary, St. Louis, Missouri (M. Div., 1963; S.T.M., 1964).

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Hampton Institute (B.S., 1959); Hunter College (M.S., 1968); University of California.

KATHRYN ESPY ALLER, M.S. in Ed., Assistant Professor of Music
Northwestern University (B.M.E., 1931; M.S. in Ed., 1936); Valparaiso University; American Conservatory of Music.

NORMAN AMUNDSEN, M.S., Assistant Professor of Physical Education, Coach, Football
University of Wisconsin (B.S., 1955; M.S., 1967).

FLORENCE G. ARMOUR, M.A., Part-time Instructor in Music
University of Minnesota (B.A., 1942; M.A., 1949).

†RICHARD PAUL BAEPLER, Ph.D., Dean of Christ College, Professor of Theology
St. Paul's (Junior) College (Diploma, 1950); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1952; M. Div., 1954); Kirchliche Hochschule, Hamburg; University of Erlangen; The University of Chicago (Ph.D., 1964).

SIMONE FRANCOISE BAEPLER, Lic es L., Assistant Professor of Foreign Languages
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Marquette University; Valparaiso University (A.B., 1944; J.D., 1947); Yale University (LL.M., 1954); University of Wisconsin.

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Valparaiso University (A.B., 1934); University of Colorado; State University of Iowa (M.A., 1939).

WALTER E. BAUER, Ph.D., Dean Emeritus of the Faculty and Distinguished Service Professor of History
Concordia (Junior) College, Fort Wayne, Indiana (Diploma, 1917); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1921); The University of Chicago; Columbia University (A.M., 1922); Harvard University; Cornell University (Ph.D., 1932).

*Summer Session 1971 to Spring Semester 1971-1972, inclusive.
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Emory University (B.A., 1968); Drake University (M.A., 1969).

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WILLIAM H. BEILFUSS, M.S., Dean of Men, Part-time Assistant Professor of Social Work
Valparaiso University (B.A., 1963); Purdue University (M.S., 1969).

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St. Olaf College (B.A., 1959); Tulane University (M.A., 1962; Ph.D., 1966).

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University of Arkansas (B.A., 1960; M.A., 1967; Ph.D., 1969); California State College at Long Beach

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Franklin College of Indiana (A.B., 1962); University of Southern Mississippi (M.S., 1965).

PAUL A. BIERWAGEN, M.B.A., Assistant Professor of Administration
Concordia Teachers College, Seward, Nebraska; University of Wisconsin; Valparaiso University (B.A., 1934); University of Wisconsin (M.B.A., 1957).

RITA BLASTICK, M.A., Part-time Lecturer in Biology

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University of Evansville (A.B., 1958); Indiana University (M.S. in Ed., 1960; Cert. Specialist in Reading, 1967); Valparaiso University.

WILLIAM WHILEY BLOOM, Ph.D., Professor of Biology
Concordia Teachers College, River Forest, Illinois (Diploma, 1934); Valparaiso University (A.B., 1939); The University of Chicago (M.S., 1949; Ph.D., 1954); University of Oregon; Indiana University; University of Tennessee.

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3Fall Semester only.
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LEE ARNOLD CARLSON, A.M., Assistant Professor of Mathematics
DePauw University (B.A., 1961); The University of Chicago; University of Michigan (A.M., 1962).

MARY UNDEEN NELSON CARLSON, M.A., Part-time Instructor in Government

SUE CAROLE DEVALE CARTER, B.A., Part-time Instructor in Music
Rosary College; Mundelein College (B.A., 1971); Northwestern University.

6Spring Semester only.
7Spring Semester only.
8Spring Semester only.
H. Paul Chalfant, Ph.D., Associate Professor of Sociology
College of Wooster (B.A., 1951); McCormick Seminary (B.D., 1954);
Oklahoma State University (M.S., 1967); Purdue University; Northern
Illinois University; University of Notre Dame (Ph.D., 1970).

W. Beau Christian, M.A., Part-time Assistant Professor of English
Oklahoma State University (B.S., 1964); Valparaiso University (M.A. in
L.S., 1967); Purdue University.

Daniel Charles Cilo, M.A., Instructor in Foreign Languages, Assistant Coach,
Baseball
Dartmouth College; Central Connecticut State College (B.S., 1963); Yale
University Summer Language Institute; Syracuse University (M.A., 1964);
Vanderbilt University; Middlebury College, Russian School.

Max Cohen, LL.B., Part-time Lecturer in Law
Indiana University (A.B., 1949; LL.B., 1951).

Robert J. Colyer, M.A.T., Assistant Professor of Physical Education; Coach,
Swimming; Assistant Coach, Track.
Dartmouth College (A.B., 1960); Wesleyan University (M.A.T., 1962);
University of Massachusetts; Oberlin College; Indiana University.

Addison Gilbert Cook, Ph.D., Professor of Chemistry
Wheaton College (B.S., 1955); University of Illinois (Ph.D., 1959);
Cornell University.

John A. Corso, M.S.E., Part-time Instructor in Education
Indiana State University (B.S., 1964; M.S.E., 1969).

William Mastin Cross, Ph.D., Assistant Professor of Sociology
Valparaiso University (B.A., 1950); The University of Chicago (M.A.,
1951); Lutheran School of Theology, Chicago, Illinois (B.D., 1954);
Divinity School, The University of Chicago; South Dakota State University
(Ph.D., 1971).

Mary M. Crumpacker, Ph.D., Associate Professor of Foreign Languages
Northwestern University; Butler University (A.B., 1947); The University
of Chicago (A.M., 1959; Ph.D., 1965).

Jacilyn Barbara Cummiskey, M.S., Instructor in Geography
Hunter College (A.B., 1967); University of Wisconsin (M.S., 1969).

Rex Cunningham, M.F.A., Assistant Professor of English
Rutgers University (A.B., 1953); State University of Iowa (M.F.A., 1959);
Harvard University.

William Charles Dallmann, M.A., Assistant Professor of Speech and Drama
San Francisco State College (A.B., 1957; M.A., 1963); Purdue University.

William Herbert Dauberman, M.S. in E.E., Professor of Electrical Engi-
neering
Bucknell University (B.S. in E.E., 1938); University of Pittsburgh; Illinois
Institute of Technology (M.S. in E.E., 1965); Iowa State University;
Kansas State University. Professional Engineer (Pennsylvania, Indiana).

Jerald D. Dawson, M.M.E., Part-time Instructor in Music
Indiana State University (B.S., 1958); Vander Cook College of Music
(M.M.E., 1965).

†John Fredrick Deters, Ph.D., Professor of Chemistry
University of Northern Iowa; State University of Iowa (B.S.Ch.E., 1939);
The University of Chicago (M.S., 1945); University of Notre Dame (Ph.D.,
1964).

7Fall Semester only.
8Spring Semester only.
RUTH KETLER DETERS, M.S., M.A., Assistant Professor of Mathematics
Northwestern University (B.S., 1932); The University of Chicago (M.A., 1933; M.S., 1943); Illinois Institute of Technology.

A. LEWIS DOUGLAS, M.A., Part-time Assistant Professor of English
East Texas State University (B.A., 1958); Northern Baptist Theological Seminary (B.D., 1965); De Pauw University (M.A., 1969); University of London.

THOMAS ARTHUR DROEGE, Ph.D., Associate Professor of Theology
Concordia Theological Seminary, St. Louis, Missouri (B.A., 1953; M. Div., 1956); The University of Chicago (M.A., 1963; Ph.D., 1965).

JAMES FRANK EHRENBERG, M.S., Assistant Professor of Accounting
Valparaiso University (B.A., 1964); DePaul University; Northern Illinois University (M.S., 1966); University of Illinois (C.P.A., 1966); State of Indiana (C.P.A., 1967).

AHMED SAMI EL-NAGGAR, Ph.D., Professor of Civil Engineering
University of Cairo (B.Sc., 1948); University of California, Berkeley (M.Sc., 1951); Purdue University (Ph.D., 1957).

CONRAD JAMES ENGELDER, Ph.D., Associate Professor of History
Wayne State University (B.A., 1952); University of Michigan (M.A. [History], 1953; M.A. [Geography], 1957; Ph.D., 1964).

PATRICIA KLARI ERDOSS, M.A., Part-time Assistant Professor of English
Manhattanville College (B.A., 1968); The University of Chicago (M.A., 1970).

LARRY GENE EVANS, J.D., Part-time Lecturer in Law

ROBERT P. EWALD, M.A., Instructor in Foreign Languages
Valparaiso University (B.A., 1967); Stanford University (M.A., 1968); University of Colorado; Princeton University; University of Michigan; University of Hamburg, Germany; University of California, Berkeley.

BARBARA M. FALKENSTEIN. Assessorin des Lehramts, Visiting Lecturer in Foreign Languages
University of Frankfurt/M., Germany; University of Innsbruck, Austria; University of Marburg/L., Germany (I Staats-examen, 1963); Teachers’ Training College of Hesse, Germany (Assessorin des Lehramts, 1965).

HENNING FALKENSTEIN, Ph.D., Associate Professor of Foreign Languages

JOHN FEASTER, Ph.D., Assistant Professor of English
Valparaiso University (B.A., 1963); Northern Illinois University (M.A., 1966); Purdue University (Ph.D., 1970).

BYRON LEE FERGUSON, M.A., Associate Professor of Chemistry
Central Michigan University; Columbia University; Valparaiso University (B.A., 1948); Indiana University (M.A., 1950); Northwestern University.

9Fall Semester only.
10Director, University Overseas Center, Cambridge, England.
11Fall Semester only.
12Spring Semester only.
ROY DOUGLAS FAY, M.F.A., Part-time Visiting Artist

MARGARET NELSON FILIPOWSKI, M.A. in L.S., Part-time Instructor in English
Indiana University (A.B., 1960); Valparaiso University (M.A. in L.S., 1968).

LARRY L. FLEMING, M.F.A., Assistant Professor of Music
Concordia College, Moorhead, Minnesota (B.M., 1960); Detroit Conservatory of Music; Wayne State University; University of Minnesota (M.F.A., 1966).

†LOUIS ASHLEY Foster, Ph.D., Dean of the College of Arts and Sciences, Professor of Mathematics
Monmouth College (B.S., 1951); McCormick Theological Seminary (B.D., 1954); Purdue University (M.S., 1959; Ph.D., 1964).

EMMA FREEMAN, M.S., Part-time Assistant Professor of Social Work
Wheaton College (B.S., 1932); The University of Chicago; George Williams College (M.S., 1947). A.C.S.W.

FREDERICK LAWRENCE FREY, M.F.A., Assistant Professor of Art

WALTER GEORGE FRIEDRICH, Ph.D., Distinguished Service Professor of English
Indiana University (A.B., 1920); Columbia University (M.A., 1923); Johns Hopkins University (Ph.D., 1934).

DANIEL R. GAHL, Ph.D., Director of the Libraries, Professor of History
Valparaiso University (A.B., 1936); Northwestern University (M.A., 1947; Ph.D., 1963).

CARL F. GALOW, M.S., Assistant Professor of English
Bay City Junior College (A.A., 1955); Valparaiso University (B.A., 1957); University of Wisconsin (M.S., 1958); Oklahoma State University.

BETTY B. GEHRING, M.M., Part-time Instructor in Music
Oberlin Conservatory (B.M., 1950); Syracuse University (M.M., 1961).

†PHILIP KLEFFER GEHRING, Ph.D., Professor of Music

JOHN PARKER GIVEN, A.M., Part-time Assistant Professor of Social Work
Taylor University (A.B., 1965); The University of Chicago (A.M., 1968).

ERWIN ELMER GOEHRING, M.A., Professor of Administration and Economics
University of Missouri (B.S. in Bus. Adm., 1927); The University of Chicago (M.A., 1938).

†HAROLD ALBERT GRAM, Ph.D., Vice-President, Administration, Professor of Economics
Waterloo College, University of Western Ontario (B.A., 1949); Lutheran Theological Seminary, Philadelphia, Pennsylvania (B.D., 1953); Harvard University (M.A., 1956); Syracuse University (Ph.D., 1963).

CHARLES ROBERT GROMLEY, LL.M., Professor of Law
Kent State University (B.S., 1948); University of Kentucky (LL.B., 1951); Georgetown University (L.L.M., 1955).

WALDEMAR C. GUNTHORP, Ph.D., Professor of Biology, Director of Research
Chicago City Junior College, Wright Branch; The University of Chicago (B.S., 1949; Ph.D., 1956); University of California; Williams College; University of Wyoming; University of Minnesota.

DENNIS ALBERT GUSE, M.A., Assistant Professor of Speech and Drama
Wisconsin State University, Oshkosh (B.S., 1959); Indiana University (M.A., 1961).

13Spring Semester only.
Vera Theresa Hahn, Ph.D., Professor of Speech and Drama
Progressive School of Music (Certificate, 1925); South Dakota Teachers College; Stanford University (A.B., 1930; M.A., 1931); Louisiana State University (Ph.D., 1939).

Arthur Edward Hallerberg, Ed.D. in Math., Professor of Mathematics
Illinois College (A.B., 1940); University of Illinois (A.M., 1941); The University of Chicago; University of Michigan (Ed.D. in Math., 1957).


Norman L. Hannewald, M.S., Assistant Professor of Music
Valparaiso University (B.A., 1951); Johns Hopkins University; Indiana University (M.S., 1954).

Robert J. Hanson, Ph.D., Professor of Biology
Valparaiso University (B.A., 1948); University of Illinois (M.S., 1949; Ph.D., 1955); University of Delaware; Roosevelt University; Syracuse University; Cornell University.

Claire A. Hardgrove, Ph.D., Assistant Professor of Speech and Drama
St. Mary of the Springs College (B.A., 1958); Catholic University (M.A., 1962); University of Wisconsin (Ph.D., 1970).

†John Walter Harris, Ph.D., Director, University Counseling Center, Associate Professor of Psychology
Valparaiso University (B.A., 1963); Illinois Institute of Technology (M.S., 1965; Ph.D., 1969).

Daniel William Hart, B.S. in E.E., Instructor in Electrical Engineering

Karen Hartman, M.A. in L.S., Part-time Instructor in Biology

Mahela W. Hays, Ph.D., University Psychologist with rank of Professor
State University of Iowa; University of California, Berkeley (B.A., 1927; Ph.D., 1943); State University of Iowa Medical School; University of California Medical School.

Ann Hellman, M.A., Part-time Instructor in Art
Valparaiso University (B.A., 1969); Chicago School of the Art Institute; Northwestern University (M.A., 1971).

†Johannes Helms, Ph.D., Associate Professor of Foreign Languages, University Marshal
Valparaiso University (B.A., 1953); University of Michigan (M.A., 1954; Ph.D., 1963).

Karl Henry Henrichs, M.A., Director, Special Gifts, Division of Public and Alumni Affairs with rank of Professor
Concordia (Junior) College, Fort Wayne, Indiana (Diploma, 1917); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1920); Columbia University; Western Reserve University (M.A., 1929); The University of Chicago.

Mary E. Henrichs, M.A. in L.S., Part-time Instructor in English
DePauw University (B.A., 1958); Valparaiso University (M.A. in L.S., 1971).

Ruth Ann Herzog, M.P.H., Assistant Professor of Nursing
University of Iowa (B.S., 1965); University of Minnesota (M.P.H., 1970).

†Spring Semester only.
†Fall Semester only.
†Spring Semester only.
ELMER BEALL HESS, M.S., Law Librarian with rank of Assistant Professor  
Western Michigan University (B.S., 1952); The University of Chicago  
(M.S., 1953); University of Michigan; Wayne State University; Indiana  
University.

HERMAN C. HESSE, M.E., D. Eng. (Hon), Dean Emeritus of the College of  
Engineering, Distinguished Service Professor of Mechanical Engineering.  
Newark Technical School; Newark College of Engineering (B.S. in M.E.,  
1925; M.E., 1927; D. Eng. [Hon.], 1961). Professional Engineer (Indiana  
and Virginia).

†JACK ARTHUR HILLER, LL.M., Professor of Law  
Valparaiso University (B.A., 1953; J.D., 1955); University of London;  
Yale University (LL.M., 1963).

BERNHARD HILLILA, Ed.D., Professor of Education  
Suomi Junior College; Suomi Theological Seminary (Diploma, 1941);  
Boston University (A.B., 1943); Western Reserve University (M.A., 1945);  

THEODORE HOELTY-NICKEL, Mus.D. (Hon.), D.D. (Hon.), Distinguished Service  
Professor of Music  
Concordia (Junior) College, Adelaide, Australia (Diploma, 1912); Con­ 
cordia Theological Seminary, Adelaide, Australia (Diploma, 1915); Trinity  
College of Music, London (License, 1916); Leipzig Konservatorium der  
Musik — Kirchenmusikalisches Institut (Diploma, 1927); Luther College  
(Mus.D. [Hon.], 1958); Concordia Theological Seminary, St. Louis, Mis­ 

MARY ESTHER HOLLLINGSEAD, M.A., Instructor in Nursing  
Greenville College (R.N., B.S., 1957); The University of Chicago; Ball  
State University (M.A., 1970).

†R. DENNIS HOOVER, J.D., Part-time Lecturer in Law  
University of Notre Dame; Valparaiso University (J.D., 1969).

†ALBERT G. HUEGLI, Ph.D., LL.D., (Hon.), D.D., (Hon.), President of the  
University, Professor of Government  
Concordia (Junior) College, Fort Wayne, Indiana (Diploma, 1932); Con­ 
cordia Theological Seminary, St. Louis, Missouri (M. Div.; 1936; D.D.  
[Hon.], 1968); Wayne State University (A.B., 1938); University of Michi­ 
gan (M.A., 1937); Northwestern University (Ph.D., 1944); Concordia  
Teachers College, River Forest, Illinois (LL.D. [Hon.], 1964).

NORMAN L. HUGHES, M.S., Director of Computer Laboratory, Associate Pro­ 
fessor of Mathematics  
Ohio Northern University (B.S., 1953); University of Wisconsin (M.S.,  
1958); University of California, Los Angeles; University of California,  
Santa Barbara.

HORACE DWIGHT HUMMEL, Ph.D., Visiting Assistant Professor of Theology  
Concordia Theological Seminary, St. Louis, Missouri (B.A., 1947; M.Div.,  
1951; S.T.M., 1952); Johns Hopkins University (Ph.D., 1955); Karl Rup­ 
recht University, Heidelberg, Germany; Hebrew University, Jerusalem.

WILBUR HOVER HUTCHINS, A.B., J.D., Associate Professor of Administration  
Western Michigan University (A.B., 1934); University of Toledo (J.D.,  
1942).

MATTHEW S. IKEDA, M.A. in L.S., M.A., Assistant Professor of Psychology  
Tokyo Bible Seminary; Cincinnati Bible Seminary (A.B., 1953); Lincoln  
Christian Seminary; Valparaiso University (M.A. in L.S., 1966); The Uni­ 

17Spring Semester only.
ROBERT LESLIE ISBELL, M.S. Ed., Professor of Mechanical Engineering
Purdue University; Ball State Teachers College; Goshen College (B.S. in Ed., 1952); Ball State Teachers College (M.S. Ed., 1962).

LUIS A. JIMENEZ, M.A., Instructor in Foreign Languages

EDWIN A. JOHNSON, M. Mus., M.A., Assistant to the Director of Libraries and Reference Librarian with rank of Assistant Professor
Valparaiso University (A.B., 1938); Northwestern University (M.Mus., 1939); Western Michigan University (M.A., 1964).

JEFF GRIFFITH JOHNSON, Ph.D., Professor of Sociology
California Concordia (Junior) College; Concordia Theological Seminary, St. Louis, Missouri (B.A., 1948); St. Louis University; Washington University; University of California at Los Angeles; University of Southern California (M.A., 1955; Ph.D., 1961).

ERWIN ARTHUR JONES, A.B., J.D., Professor of Law
University of Nebraska (A.B., 1926; J.D., 1928).

THEODORE ROBERT JUNGKUNTZ, Dr. Theol., Associate Professor of Theology
Northwestern College (B.A., 1953); University of Missouri (M.A., 1954); Lutheran Theological Seminary (B.D., 1958); University of Erlangen/Nurnberg, Germany (Dr. Theol., 1962); University of Heidelberg, Germany; University of Wisconsin; Central Missouri State College; University of Kansas.

IDA G. KAIN, M.A.S.W., Assistant Professor of Social Work
Indiana University (B.A., 1949; M.A.S.W., 1954); University of Missouri; The University of Chicago (Advanced Certificate in Social Service Administration, 1961). A.C.S.W.

FERENCZ PAUL KALLAY, Ph.D., Professor of Geography
Wayne State University (A.B., 1950; M.A., 1952); University of Michigan (Ph.D., 1955); University of Rome.

ELIZABETH W. KAPLAN, M.A., Instructor in Foreign Languages
The University of Chicago (A.B., 1964; M.A., 1966); La Sorbonne, Paris (Certificat d'etudes pratiques, 1964); Indiana University.

PETER C. KARVELLAS, Ph.D., Assistant Professor of Psychology
Lake Forest College (B.A., 1963); Bradley University (M.A., 1964); Illinois Institute of Technology (Ph.D., 1969).

ARTHUR PHILIP KAUTZ, Ph.D., Professor of History
Concordia Teachers College, River Forest, Illinois (Diploma, 1935); University of Minnesota (B.A., 1947; M.A., 1948; Ph.D., 1952).

WALTER ERICH KELLER, Ph.D., Associate Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1949); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1951; M.Div., 1955; S.T.M., 1956); University of Cambridge (Ph.D., 1968).

WAYNE EUGENE KIEFER, Ph.D., Associate Professor of Geography
Valparaiso University (B.A., 1960); Indiana University (M.A., 1963; Ph.D., 1967).

NORBERT KING, B.M., Part-time Instructor in Music
DePaul University (B.M., 1970).

KLEIN, PH. D., Associate Professor of Philosophy
Washington University (A.B., 1952); The University of Chicago, Divinity School (B.D., 1955); Chicago Lutheran Theological Seminary; Oxford University, Mansfield College; Harvard University (Ph.D., 1963).

Director, University Overseas Center, Reutlingen, Germany.
GERALD ALAN KNARR, M.A., Instructor in English
Franklin College (B.A., 1965); Indiana University (M.A., 1970).

†WILLIAM R. KOCH, M.S., Assistant Professor of Physical Education, Assistant Coach, Football
Valparaiso University (B.A., 1951); Indiana University (M.S., 1956); St. Francis College.

†LEONARD H. KOCHENDORFER, Ph.D., Associate Professor of Education
Concordia Teachers College, River Forest, Illinois (B.S., 1956); Washington University (M.A., 1960); St. John’s University; University of Texas (Ph.D., 1966).

†RICHARD P. KOENIG, M.S., Vice-President, Public and Alumni Affairs, Professor of Physical Education
Valparaiso University (B.A., 1942; B.S. in P.E., 1954); University of Maryland; Indiana University (M.S., 1955).

LUTHER PAUL KOEPEKE, S.T.D., Assistant to the President, Church Relations, Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1937); Valparaiso University (A.B., 1940); Concordia Theological Seminary, St. Louis, Missouri (M.Div., 1941); University of Texas (M.A., 1944); Chicago Lutheran Theological Seminary (S.T.D., 1950).

ALFRED C. KOESTER, M.A. in Ed., Director of Evening Division and Summer Session, and Director of Institutes and Conferences, Associate Professor of Education
Concordia Teachers College, River Forest, Illinois (Diploma, 1932); Denver University; Ball State Teachers College (B.S. in Ed., 1952; M.A. in Ed., 1954); Indiana University.

10 DEAN WAYNE KOHLHOFF, M.A., Assistant Dean of the College of Arts and Sciences; Assistant Professor of History
Valparaiso University (B.A., 1957); Washington University (M.A., 1958); The University of Chicago.

KENNETH FREDRICK KORBY, S.T.M., Associate Professor of Theology; Director, Youth-Leadership Training Program.
St. John’s College (A.A., 1943); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1945; Diploma, 1948; M.Div., 1962); University of Minnesota; Yale University Divinity School (S.T.M., 1963).

WILLIAM T. KOWITZ, M.A., Associate Professor of Geography
Valparaiso University (B.A., 1950); Northwestern University (M.A., 1953).

JOHN HENRY KRAUSE, M.S., Assistant Director of Athletics, Assistant Professor of Physical Education
Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1932); Concordia Theological Seminary, St. Louis, Missouri; American College of Physical Education (B.P.E., 1936); Seattle Pacific College (B.A., 1938); Washington University (M.S., 1950).

DIANE HoERMANn KREBS, M.S., Assistant Professor of Mathematics
Valparaiso University (B.S., 1956); University of Michigan (M.S., 1957).

†CARL H. KREKELER, Ph.D., Professor of Biology, Vice-Chairman of the University Senate
St. John’s (Junior) College (Diploma, 1939); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1941; Diploma, 1945); University of Kansas; University of Arkansas; Washington University; The University of Chicago (Ph.D., 1955).

OTTO PAUL KTETZMANN, S.T.M., Litt.D., (Hon.), D.D. (Hon.), LL.D. (Hon.), L.H.D. (Hon.), Chancellor of the University, Professor of Theology Concordia College Institute; Concordia Theological Seminary, St. Louis, Missouri (S.T.M., 1924; Litt.D. (Hon.), 1941); Columbia University; Harvard University; Johns Hopkins University; The University of Chicago; Thiel College (D.D. (Hon.), 1947); Capital University (LL.D. (Hon.), 1950); Indiana University (L.L.D. (Hon.), 1959); Pacific Lutheran University L.H.D. (Hon.), 1962); Wabash College (LL.D. (Hon.), 1962); Wartburg College (L.L.D. (Hon.), 1966); St. Joseph's College (D.D. (Hon.), 1967); Indiana State University (L.L.D. (Hon.), 1968); California Lutheran College (L.H.D. (Hon.), 1970). October 26, 1971 inaugurated member of the Indiana Academy.

GOTTFRIED G. KRODEL, Th.D., Professor of History and Church History, Occupant of the Martin Luther Chair in Reformation History Oberrealschule mit Gymnasium, Neumarkt/Oberpfalz, Germany (Abitur, 1949); Friedrich Alexander University, Erlangen, Germany (Th.D., 1955).

WILLIAM H. KROEGER, M.Mus., Associate Professor of Music Augustana College (Mus. E., 1942); Chicago Musical College (M. Mus., 1950); Juilliard School of Music.

RICHARD G. KROENKE, Ed.D., Professor of Education Concordia Teachers College, Seward, Nebraska (Diploma, 1932); Kansas State Teachers College; University of Denver (B.A., 1939; M.A., 1943; Ed.D., 1952); University of Michigan.

MARY LOUISE KRUECKEBERG, M.A. in L.S., Instructor in Nursing Fort Wayne Lutheran Hospital School of Nursing (Diploma, 1957); Valparaiso University (B.A., 1961; M.A. in L.S., 1971).

KARL L. KRUECKENBERG, M.A., Instructor in Government Valparaiso University (B.A., 1964); University of the Philippines; State University of New York, Buffalo (M.A., 1969).

FRED W. KRUGER, M.S. in M.E., Dean of the College of Engineering, Professor of Mechanical Engineering Valparaiso University; Purdue University (B.S. in E.E., 1943; B.S. in M.E., 1947); Illinois Institute of Technology; University of Notre Dame (M.S. in M.E., 1954). Professional Engineer (Indiana).

VAN CARL KUSSROW, Jr., Ph.D., Professor of Speech and Drama National Institute of Speech and Voice Disorders; Valparaiso University; Stanford University (B.A., 1949; M.A., 1950); The University of Chicago; Indiana University (Ph.D., 1959).

MARGARET SPRAY LAMBERT, M.S., Assistant Professor of Education Teachers College of Indianapolis; Chapman College (B.S., 1932); University of Denver; Indiana University (M.S., 1964).

ELSIE VERONA LAMPL, M.S., Assistant Professor of Physical Education Indiana University (B.S., 1944; M.S., 1965).

PAUL WILLIAM LANGE, Ph.D., Professor of Education Concordia Teachers College, River Forest, Illinois (Diploma, 1927); The University of Chicago (Ph.B., 1930; M.A., 1933; Ph.D., 1940).

ROBERT JAMES LANGE, M.M., Part-time Instructor in Music Valparaiso University (B.A., 1949); American Conservatory of Music (M.M., 1951).

RAYMOND GEORGE LARSON, Ph.D., Professor of Chemistry University of North Dakota (B.S., 1931; M.S., 1934); Purdue University (Ph.D., 1938); Cornell University; University of Minnesota; University of Southern California; University of Illinois.

On leave of absence, Fall Semester.

Teaching at Coventry, England, on joint program with Cathedral.

On sabbatical leave, Fall Semester.
Dale Guilford Lasky, S.T.M., M.A., Assistant Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin; Concordia Theological Seminary, St. Louis, Missouri (B.A., 1951; M.Div., 1954); University of Minnesota; Heidelberg University, Germany; Yale Divinity School (S.T.M., 1960); The University of Chicago (M.A., 1965).

Richard Henry Laube, Ph.D., Dean of the College of Business Administration, Professor of Administration
Valparaiso University (A.B., 1940); University of Minnesota (M.A., 1953); University of Nebraska (Ph.D., 1966).

Richard William Lee, Rel.D., Assistant Professor of Humanities in Christ College, Editor of The Cresset.
Valparaiso University (B.A., 1960); The University of Chicago (B.D., 1964); The School of Theology at Claremont (Rel.D., 1968).

Bruce E. LEEP, M.A., Instructor in English
Calvin College (A.B., 1958); University of Iowa (M.A., 1967).

Merlin Lehman, M.M., Visiting Assistant Professor of Music
Oberlin College (B.M., 1954; M.M., 1958); University of Cincinnati; Northwestern University.

Gilbert Mark Lehmann, Ph.D., Associate Professor of Mechanical Engineering
Valparaiso University (B.S. in M.E., 1955); Illinois Institute of Technology (M.S. in M.E., 1957); Purdue University (Ph.D., 1966).

Melodee Joy Leimnetzer, M.S., Part-time Assistant Professor of Nursing
Saint Xavier College (B.S., 1963; M.S. 1967).

John Burr Lennes, M.A., Associate Professor of Mathematics
University of Montana (B.A., 1929; M.A., 1930); The University of Chicago; University of Oklahoma.

Marjorie K. Leoschke, B.S., Part-time Instructor in Home Economics
Moorhead State College; North Dakota State University (B.S., 1956).

William Leroy Leoschke, Ph.D., Professor of Chemistry
Valparaiso University (B.A., 1950); University of Wisconsin (M.S., 1952; Ph.D., 1954).

Ruth Elenor Lerud, M.A., M.S., Assistant Professor of Home Economics
University of Minnesota (B.S., 1943); Columbia University (M.A., 1951); University of Tennessee (M.S., 1965).

Edward C. Lesnick, Jr., M.A., Assistant Professor of Economics
Manhattan College (B.B.A., 1966); University of Notre Dame (M.A., 1968).

Sigrid Ruth Lindemann, M.S., Assistant Professor of Nursing
St. Louis Lutheran Hospital School of Nursing (R.N., 1961); Washington University (B.S., 1966; M.S., 1967); Catholic University.

Elsbeth Anna Loeffert, M.A., Assistant Professor of English
Kendall College (A.A., 1958); Northwestern University (B.A., 1960; M.A., 1963); University of Hamburg, Germany.

Alfred Robert Looman, A.B., Dean of Student Services with rank of Assistant Professor
Valparaiso University (A.B., 1942); The University of Chicago.

James Loucks, Ph.D., Associate Professor of English
Yale University (B.A., 1957); Ohio State University (M.A., 1965; Ph.D., 1967).

On leave of absence, Fall Semester.
THEODORE MARK LUDWIG, Th.D., Assistant Professor of Theology
Concordia (Junior) College, Austin, Texas; Concordia Theological Seminary, St. Louis, Missouri (B.A., 1958; M.Div., 1961; S.T.M., 1962; Th.D., 1963); The University of Chicago, Divinity School.

EDGAR J. LUECKE, Ph.D., Associate Professor of Electrical Engineering
Valparaiso University (B.S. in E.E., 1955); University of Notre Dame (M.S. in E.E., 1957); Purdue University (Ph.D., 1968).

RICHARD HENRY LUECKE, Ph.D., Visiting Professor in Christ College
Wayne University (M.A., 1947); Concordia Theological Seminary, St. Louis, Missouri (M.Div., 1947); The University of Chicago (Ph.D., 1955); Washington University; St. Louis University.

KARL ERNST LUTZE, B.A., Part-time Assistant Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1940); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1942; Diploma, 1945).

GEORGE R. LUX, M.S. in E.G., Assistant Professor of Mechanical Engineering

ARTHUR S. MALASTO, M.S. in Hospital Administration, Part-time Lecturer in Nursing with rank of Assistant Professor
Milliken University (B.S. in Bus. Ad., 1952); Northwestern University (M.S. in Hospital Administration, 1957).

RICHARD SEBASTIAN MANGIARACINA, M.A., Assistant Professor of Physics
Polytechnic Institute of Brooklyn (B.S., 1953); State University of New York, Buffalo (M.A., 1963).

CHARLES ARTHUR MANN, B.M.E., Part-time Instructor in Music
Indiana University (B.M.E., 1966).

†ANITA LOUISE MANNING, B.S. in H.E., Instructor in Home Economics
Southern Illinois University (B.S., 1970; M.S., 1971).

ARMIN WILLIAM MANNING, Ph.D., Professor of Physics
Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1933); Valparaiso University (A.B., 1936); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1937); University of Michigan (M.A., 1939); Fordham University (Ph.D., 1958).

ROBERT LOUIS MARINO, JR., M.S.C.E., Associate Professor of Civil Engineering

GAYTON CARL MARKS, M.S., Assistant Professor of Biology
Purdue University; Valparaiso University (B.A., 1955); University of Michigan Biological Station; DePauw University; University of Michigan (M.S., 1961).

ANTIA Jo MARTIN, M.S., Instructor in Home Economics
Southern Illinois University (B.S., 1970; M.S., 1971).

LEROY OSCAR ANTON MARTINSON, Ph.D., Associate Professor of Sociology
Gustavus Adolphus College (A.B., 1949); Augustana Theological Seminary (B.D., 1953); Columbia University (M.A., 1965); The University of Chicago (Ph.D., 1971).

LEROY MASCHHOFF, M.S., Assistant Professor of Mathematics
Valparaiso University (B.A., 1961); University of Illinois (M.S., 1964); University of Nebraska.

JOSEPH FRANCIS MCCALL, Mus.M., Associate Professor of Music
St. Charles College (A.A., 1949); St. Mary's Seminary and University; Loyola College (A.B., 1951); Peabody Conservatory of Music (Mus.B., 1954; Mus.M., 1956); Eastman School of Music.

DWAYNE MERVYN MCLUHAN, M.M., Visiting Instructor in Music
Lee College (B.A., 1968); Miami University (M.M., 1971).

MICHAEL JAMES McMAHON, A.M., Instructor in Humanities in Christ College College of St. Thomas (B.A., 1966); The University of Chicago (A.M., 1968).

FRANCINE MELKA, Maitrise de Linguistique, Visiting Lecturer in Foreign Languages
La Sorbonne (Licence de Lettres, 1968; Maitrise de Linguistique, 1969).

GERALD THOMAS MERCER, M.A., Instructor in English
Western Kentucky University; University of Louisville (B.A., 1969; M.A., 1971).

ALFRED H. L. MEYER, Ph.D., Distinguished Service Professor of Geography
University of Illinois (A.B., 1921; A.M., 1923); The University of Chicago; Northwestern University; University of Michigan (Ph.D., 1934).

ALFRED W. MEYER, LL.M., Dean of the School of Law, Professor of Law
Valparaiso University (B.A., 1948; J.D., 1950); Harvard University Law School (LL.M., 1951); Columbia University, School of Law

ARLIN GLENN MEYER, Ph.D., Associate Professor of English
Dordt Junior College; Calvin College (A.B.Educ.); University of Michigan (M.A., 1963); Ohio University (Ph.D., 1967).

FREDERICK RICHARD MEYER, Ph.D., Associate Professor of Biology
Valparaiso University (B.S., 1960); Indiana University (M.A., 1962; Ph.D., 1966).

RICHARD D. MILLAR, Ph.D., Assistant Professor of Psychology
Eastern Michigan University (B.S., 1963); Western Michigan University (M.A., 1967); University of Missouri (Ph.D., 1972).

MARGARET CHARLOTTE MOHLER, B.S., Part-time Instructor in Home Economics
Purdue University (B.S., 1949).

KENNETH MORTIMER, M.S. in Mechanics, Professor of Civil Engineering and Engineering Mechanics

SEYMOUR MOSKOWITZ, B.A., J.D., Adjunct Assistant Professor of Law
Columbia College (B.A., 1963); Harvard University Law School (J.D., 1966).

THORA MARY MOUTH, Ph.D., Professor of Foreign Languages
Springfield Junior College (Mass.); Mount Holyoke College (B.A., 1942); The University of Chicago (M.A., 1944); Eberhard-Karls-Universitaet, Tuebingen, Germany (Ph.D., 1958).

DONALD CHARLES MUNDINGER, Ph.D., Vice-President Academic Affairs, Professor of Government

27Spring Semester only.
MARGARET R. MUNDT, M.S., Part-time Instructor in Mathematics
Whittier College (B.A., 1957); Iowa State University (M.S., 1962).

MARVIN GLEN MUNDT, Ph.D., Professor of Mathematics
Luther College (B.A., 1955); Iowa State University (M.S., 1958; Ph.D.,
1961); Michigan State University.

GUSTAV MUST, Ph.D., Professor of Foreign Languages
University of Dorpat (Ph.M., 1938); University of Budapest, Hungary;
University of Munich, Germany; University of Hamburg, Germany;
University of Goettingen, Germany (Ph.D., 1948); University of Michigan.

Winston Nagan, M.A. (Juris), LL.M., M.C.L., Assistant Professor of Law
University of South Africa (B.A. [Law], 1964); Oxford University (B.A. Hons. [Juris], 1966; M.A. [Juris], 1971); Duke University (LL.M.,

EDGAR HERBERT NAGEL, Ph.D., Associate Professor of Chemistry
Valparaiso University (B.S., 1960); Northwestern University (Ph.D., 1965).

NORMAN EDGAR NAGEL, Ph.D., University Preacher, Dean of the Chapel, Professor of Theology
Concordia College and Seminary, Adelaide, Australia; University of Ade­
lai de (B.A., 1945); Concordia Theological Seminary, St. Louis, Missouri
(M.Div., 1953); Middlebury College; King's College, London; University of Erlangen; University of Cambridge (Ph.D., 1962).

VIRGIL OMAR NAUMANN, Ph.D., Associate Professor of Physics
University of Montana (B.A., 1950); University of Wisconsin (M.S., 1952;
Ph.D., 1956).

WILLIAM J. NEAL, M.S.W., Associate Professor of Social Work, Coordinator of Special Programs
Lane College (A.B., 1938); Wayne State University (M.S.W., 1951). A.C.S.W.

KENNETH E. NICHOLS, Ph.D., Professor of Biology
Valparaiso University (B.A., 1949); The University of Chicago (M.S.,
1953; Ph.D., 1962); University of California, San Diego.

CARL WILLIAM NOLLER III, B.A., Assistant Professor of Economics
Rockford College (B.A., 1966); University of Virginia.

SELMA ANDERSON de OCHOA, M.A., Instructor in Foreign Languages
Valparaiso University (B.A., 1959); Universidad de las Americas; Uni­
versidad Nacional Autonoma de Mexico; University of Michigan (M.A.,
1960).

IRVING S. OLSEN, M.S., Assistant Librarian with rank of Assistant Professor, Director of Instructional Materials
Northwestern University (B.S., 1954; M.S., 1955).

HELEN MAE OLSON, M.A., Director of Valparaiso Union and Director of Social Activities with rank of Assistant Professor
Northwestern University (B.S., 1934); Columbia University (M.A., 1941);
Illinois Normal University; The University of Chicago.

ROBERT JAMES PELLEGRINI, M.S., Instructor in Administration
St. Joseph's College (B.S., 1967); Northern Illinois University (M.S., 1969).

CHARLES GEORGE PELLER, M.S. in C.E., Professor of Civil Engineering

DORIS MARIE PELLER, B.S., Part-time Instructor in Home Economics
Cornell University (B.S., 1940).

28Fall Semester only.
BARBARA MILLER PERI, Ph.D., Associate Professor of Biology
University of California, Berkeley (B.A., 1946); University of Wisconsin
(M.S., 1948); Valparaiso University; University of Notre Dame (Ph.D.,
1970).

LENEN PERUIT, Part-time Instructor in Music

ALBERT PERO, JR., B.A., Part-time Assistant Professor of Theology
St. Paul's (Junior) College, Concordia, Missouri; Concordia Theological
Seminary, Springfield, Illinois (B.A., 1962); University of Detroit.

HOWARD NEVIN PETERS, Ph.D., Director of Graduate Division, Associate Dean of
the College of Arts and Sciences, Associate Professor of Foreign Languages
Gettysburg College (A.B., 1960); Universidad Nacional de Mexico; Uni-
versity of Colorado (Ph.D., 1966).

JUDITH GRIESSEL PETERS, Ph.D., Assistant Professor of Foreign Languages
Valparaiso University (B.A., 1961); University of Colorado (Ph.D.,
1968).

CAROL O. PETERSEN, M.A., Assistant Professor of Foreign Languages
Real Gymnasium, Berlin; University of Greifswald; University of Leipzig;
University of Berlin (M.A., 1946); Chevalier des Palmes Academiques de
France.

PAUL FREDERICK PHIPPS, Ph.D., Professor of English
Valparaiso University (B.A., 1949); University of North Carolina (M.A.,
1950); Northwestern University; Johns Hopkins University (Ph.D., 1961);
University of Wisconsin.

RICHARD W. PICK, M.A., M.F.A., Assistant Professor of Speech and Drama
Valparaiso University (B.A., 1957); Northwestern University (M.A., 1962);
University of Iowa (M.F.A., 1968).

JACQUELINE B. POTIER, M.A.L.S., Assistant Librarian with rank of Instructor
Wright Junior College; North Park College; University of Illinois (A.B.,
1950); Northern Illinois University; Rosary College (M.A.L.S., 1966).

NEWMAN WILSON POWELL, Ph.D., Professor of Music
Ohio University (B.F.A.M., 1942); American Conservatory of Music
(M.M., 1944); Stanford University (M.A., 1954; Ph.D., 1959).

HENRY WILLIAM PRAHL, M.A., Associate Professor of English and Director,
Reading Laboratory
Concordia Teachers College, River Forest, Illinois (Diploma, 1938); Cen-
tral Michigan College of Education (B.S., 1944); University of Michigan
(M.A., 1948); University of Wisconsin.

JOEL W. PROUTY, M.A., Instructor in Foreign Languages
Clark University (A.B., 1961); Worcester State College; University of
Massachusetts; State University at New Paltz, New York; Indiana Uni-
versity (M.A., 1971).

WILLIAM PURDEN, M.Ed., Part-time Assistant Professor of Physical Education,
Coach, Basketball and Golf
Cornell College (B.A., 1951); University of Wyoming (M.Ed., 1968).

MICHAEL PURDY, M.S., Visiting Instructor in Mathematics
Purdue University (B.S., 1966; M.S., 1968).

AUGUST RAYMOND RALSTON, M.A., Assistant Professor of Administration
Austin Peay State College (B.S., 1963); East Tennessee State University

GREGORY JOHN RAMEL, SR., A.M., Visiting Instructor in English
DePaul University (A.B., 1969); The University of Chicago (A.M., 1971).

Footnotes:
29 Fall Semester only.
WALTER EMIL RAST, Ph.D., Associate Professor of Theology

ALICE THEODORA MERTEN RECHLIN, Ph.D., Associate Professor of Geography
Valparaiso University (B.A., 1953); Northwestern University (M.A., 1956); University of Michigan (Ph.D., 1970).

FREDERICK H. RECHLIN, M.A., Director of Admissions with rank of Assistant Professor
Concordia Collegiate Institute (Diploma, 1928); Concordia Theological Seminary, St. Louis, Missouri (Diploma, 1931); Washington University; Columbia University (M.A., 1932); University of Heidelberg, Germany.

WALTER MARTIN REINER, M.S., Director, Urban Studies—Chicago Semester, Associate Professor in Christ College
Springfield College (Mass.) (B.S., 1949); Indiana University (M.S., 1954).

EDGAR CARL REINEKE, Ph.D., Professor of Foreign Languages
The University of Chicago (A.B., 1928; Ph.D., 1934); University of Minnesota, Library School (A.M., 1957); Vergilian Classical Summer School, Naples, Italy; American School of Classical Studies, Athens, Greece.

MALCOLM WALTER REYNOLDS, M.S., Assistant Professor of Mathematics
Muskegon Community College; University of Michigan (B.S., 1951; M.S., 1952); Michigan State University of Agriculture and Applied Science; Illinois Institute of Technology.

JOHN S. RICHARDSON, B.M.E., Part-time Instructor in Music

HERBERT JACKSON RISLEY, Ph.D., Professor of English
Wabash College (A.B., 1938); Indiana University (M.A., 1941; Ph.D., 1958).

CLARENCE CHARLES RIVERS, JR., M.S.W., Assistant Professor of Social Work
The Lutheran Bible Institute, Seattle, Washington (Diploma, 1950); Concordia (Junior) College, Portland, Oregon (Diploma, 1952); Valparaiso University (B.A., 1960); Indiana University Graduate School of Social Service (M.S.W., 1967). A.C.S.W.

MARJORIE SERBY ROBERTSON, M.S.W., Part-time Assistant Professor of Social Work
Grinnell College; University of Wisconsin; Wayne State University (A.B., 1952); Loyola University, Chicago, Illinois (M.S.W., 1967).

WALTER E. ROGERS, M.S.W., Part-time Assistant Professor of Social Work
Wilson Junior College; Lincoln University, Pennsylvania (A.B., 1948); Loyola University (M.S.W., 1959); The University of Chicago.

ROBERT LAWRENCE ROSE, M.S. in M.E., Assistant Professor of Mechanical Engineering

MARK C. ROSER, M.A.S.W., Part-time Assistant Professor of Social Work
Earlham College (A.B., 1927); Harvard University; The University of Chicago, School of Social Service Administration (M.A.S.W., 1950). A.C.S.W.


Spring Semester only.
HELEN I. ROTHSCHILD, M.A., Instructor in English
Valparaiso University (B.A., 1969); University of Arizona (M.A., 1971).

WARREN GUNTHER RUBEL, Ph.D., Professor of Humanities in Christ College
Concordia (Junior) College, Milwaukee, Wisconsin; University of Wisconsin;
Concordia Theological Seminary, St. Louis, Missouri (B.A., 1950; M.Div., 1952);
Washington University (A.M., 1961); University of Arkansas (Ph.D., 1964);
University of Missouri; Indiana University.

†WALTER CARL RUBKE, Ph.D., Vice President, Student Affairs, Professor of Education
California Concordia College; Concordia Theological Seminary, St. Louis,
Missouri (B.A., 1945; M.Div., 1948); University of California, Berkeley

DOLORES M. RUOSCH, M.S., Dean of Women, Director of Scheele Sorority Complex, Assistant Professor of Education
Valparaiso University (B.A., 1951); Indiana University; Long Beach State
College; University of Southern California (M.S., 1957); Los Angeles State
College; University of California at Los Angeles.

EMIL H. RUPRECHT, M.A., Visiting Lecturer in English
Concordia Teachers College, River Forest, Illinois (Diploma 1923); University
of Wisconsin; University of Iowa; Valparaiso University; The University

VERNE ROBERT SANFORD, Ph.D., Associate Professor of Mathematics
Concordia College; University of North Dakota (Ph.B., 1957; M.S.,
1959); University of California, Los Angeles; University of Michigan
(M.P.H., 1962; Ph.D., 1970).

MARTIN H. SCHAEFER, M.A., Director of Foreign Studies, Associate Professor
of History
Concordia Theological Seminary, St. Louis, Missouri (A.B., 1941; Diploma.
1943); Washington University (M.A., 1949); The University of Chicago.

KENNETH DONALD SCHEIDERER, Th.D., Assistant Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin; Concordia Senior
College (B.A., 1959); Concordia Theological Seminary, St. Louis, Missouri
M.Div., 1964); Washington University; San Francisco State College;
Philips Universitat, Germany (Th.D., 1968).

WILLIAM G. SCHEIDERER, M.A., Assistant Professor of Physics
Concordia Teachers College, Seward, Nebraska (B.S., 1957); University of

RICHARD WILLIAM SCHEIMANN, Ph.D., Professor of Philosophy
Concordia (Junior) College, Fort Wayne, Indiana (Diploma, 1944); Concordia
Theological Seminary, St. Louis, Missouri (B.A., 1945; M.Div.,
1950); The University of Chicago; Divinity School, The University of
Chicago (Ph.D., 1963).

MICHAEL VERNE SCHERSCHLIGT, M.A., Part-time Instructor in English
Concordia Senior College (B.A., 1964); Concordia Theological Seminary, St.

SUZANNE SCHERSCHLIGT, B.S. in Ed., Part-time Instructor in Education
University of Colorado (B.S. in Ed., 1964).

MARILYN JEAN SCHMIEGE, B.M., Part-time Instructor in Music
Valparaiso University (B.M., 1970). Westfalische Schule fur Musik, Munster,
West Germany.

†SUSAN MARY SALES SCHOECH, M.S., Part-time Instructor in Art
Cornell University (B.S., 1966); The Pennsylvania State University (M.S.,
1968); Purdue University.

†Fall Semester only.
WILLIAM JOSEPH SCHOECH, Ph.D., Assistant Professor of Electrical Engineering  
Valparaiso University (B.S. in E.E., 1966); Pennsylvania State University  
(M.S.I.E., 1969); Purdue University (Ph.D., 1971).

ROBERT KEITH SCHOPPA, M.A., Instructor in History  
Valparaiso University (B.A., 1966); Taiwan National Normal University;  
University of Hawaii (M.A., 1968).

JAMES EDWARD SCHUELER, M.S., Associate Professor of Civil Engineering  
Valparaiso University (B.S. in C.E., 1959); Northwestern University (M.S.,  

ROBERT C. SCHULTZ, Dr. theol., Professor of Theology  
Concordia Theological Seminary, St. Louis, Missouri (B.A., 1949; M.Th.,  
1952); Friedrich Alexander University, Erlangen, Germany (Dr. theol.,  
1956). Divinity School; The Menninger Foundation.

THEODORE CARL SCHWAN, Ph.D., Acting Assistant Dean of the College of  
Arts and Sciences, Professor of Chemistry  
Valparaiso University (A.B., 1941); University of Notre Dame (M.S.,  
1949; Ph.D., 1953).

DANA B. SCHWANHOLT, M.S., Professor of Education  
Indiana University (A.B., 1929; M.S., 1934).

NORMA E. SCHWARZ, B.S., Instructor in Foreign Languages  
Miami University (B.S., 1959); University of Cincinnati; Technische Hochschule, Stuttgart, Germany.

ALBERT FRANK SCRIBNER, M.A., LL.D., (Hon.), Consultant to the President,  
University Archivist, with rank of Distinguished Service Professor, Vice-  
President Emeritus, Business and Finance  
Valparaiso University (A.B., 1931); University of Kentucky (M.A., 1937);  
Concordia Teachers College, Seward, Nebraska (LL.D., [Hon.], 1956).

NANCY CAROL SEDERBERG, M.Ed., Assistant Professor of Sociology  
Thiel College (A.B., 1964); University of Pittsburgh (M.Ed., 1965).

EDGAR PAUL SENNE, M.A., Assistant Professor of Theology  
St. John's College, Winfield, Kansas (Diploma, 1952); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1954; M.Div., 1958); Washington University (M.Ed., 1958); Divinity School, The University of Chicago (M.A., 1969).

WILLIAM SHEWAN, Ph.D., Professor of Electrical Engineering  
Valparaiso University (B.S. in App. Sci., 1950); University of Notre Dame  
(M.S. in E.E., 1952); Purdue University (Ph.D., 1966).

DONALD LEROY SHIRER, Ph.D., Professor of Physics  
Case Institute of Technology (B.S., 1952); The Ohio State University  
(M.Sc., 1953; Ph.D., 1957); University of Illinois.

KAREN KENT SHIRER, M.M., Part-time Instructor in Music  
Ohio State University (B.M., 1957); American Conservatory of Music  
(M.M., 1958); University of Minnesota.

PHILIP SIEBURG, Part-time Instructor in Music  
Chicago Civic Orchestra and School of Music; Indianapolis Symphony Orchestra; Pittsburgh Symphony Orchestra.

JANET LOUISE SIEVERS, M.B.A., Associate Professor of Accounting  
Valparaiso University (A.B., 1939); The University of Chicago (M.B.A.,  
1952). C.P.A.

LOIS JULIETTE SIMON, M.A., Professor of Home Economics  
Wittenberg College (A.B., 1928); University of California, Berkeley (M.A.,  
1936); Kent University; Cornell University; Syracuse University.


Spring Semester only.
†Fred Sitton, Ph.D., Professor of Speech and Drama
Texas Western College (B.A., 1943; M.A., 1951); University of Texas (M.F.A., 1954); University of North Carolina (L.D.A., 1959); Northwestern University (Ph.D., 1962).

Dorothy Paulsen Smith, R.N., Ph.D., Dean, College of Nursing, with rank of Associate Professor
Whitworth College (R.N., B.S., 1955); Western Reserve University (M.S., 1960); Yale University (Ph.D., 1967).

John Leigh Smith, M.A., Assistant Professor of Philosophy
Columbia University; Roanoke College (B.A., 1952); Lutheran Theological Seminary, Philadelphia, Pennsylvania (B.D., 1955); University of Virginia (M.A., 1966).

Lewis Oliver Smith, Jr., Ph.D., Professor of Chemistry
Grove City College (B.S., 1944); University of Rochester (Ph.D., 1947).

³⁰Flynn Phillip Sochon, M.S., Part-time Instructor in Art

John Raymond Sorenson, Ph.D., Associate Professor of Mathematics
Valparaiso University (B.S., 1957); Purdue University (M.S., 1959; Ph.D., 1966).

Norma Jean Acker Sorenson, M.S., Part-time Instructor in Biology
Valparaiso University (B.S., 1962); Purdue University (M.S., 1965).

Gerald Paul Speckhard, Ed.D., Associate Professor of Education
Valparaiso University (B.A., 1952); Stanford University; University of Wisconsin (M.S., 1959); Concordia Teachers College, Seward, Nebraska; University of Colorado (Ed.D., 1966).

Bradford H. Spring, M.S., Assistant Professor of Civil Engineering
Cornell University (B.C.E., 1959; M.S., 1961); University of Wisconsin

John Robert Stager, M.A., Assistant Librarian with rank of Assistant Professor
University of Riga, Latvia (Mag. Oec., 1930; Mag.Jur., 1933); The University of Chicago, Graduate Library School; Western Michigan University (M.A., 1963).

James Dill Startt, Ph.D., Professor of History

Martin Theodore Steege, M.A., M.A.R., Instructor in English
Valparaiso University (B.A., 1964); Bowling Green State University (M.A., 1967); Yale University Divinity School (M.A.R., 1968); The University of Chicago Divinity School.

Barbara Jeanne Steele, M.S. in Ed., Instructor in Physical Education

Arthur Raymond Steiger, B.M., Part-time Instructor in Music
American Conservatory of Music (B.M., 1970).

³⁷Naomi Irene Stephan, M.A., Instructor in Foreign Languages
Indiana University (B.A., 1961); University of Illinois (M.A., 1962); Hochschule fur Musik, Germany (Diploma [Voice], 1965).

³⁸Richard Harold Stevenson, LL.M., Professor of Law
St. Ambrose College (B.A., 1952); State University of Iowa (J.D., 1955); Harvard University (LL.M., 1959).

Eugenia Adele Stiemke, M.A., Assistant Professor of Education
Valparaiso University (B.A., 1945); Columbia University; Johns Hopkins University (M.A., 1956).

³⁶Fall Semester only.
³⁸On sabbatical leave, Fall Semester.
ROBERT M. STOLTZ, M.D., Medical Director and University Physician with rank of Professor
Valparaiso University (B.A., 1949); Indiana University School of Medicine (M.D., 1953).

JOHN HENRY STRIETELMEIER, M.A., Litt.D., (Hon.), Professor of Geography
Valparaiso University (A.B., 1942); Northwestern University (M.A., 1947); Concordia Theological Seminary, St. Louis, Missouri (Litt.D. [Hon.], 1963); University of Cambridge.

GEORGE STRIMBU, M.S., Part-time Assistant Professor of Art
Institute of Design of Illinois Institute of Technology (B.S., 1956; M.S., 1966); Purdue University; Indiana University; Fordham University.

JANET MALMQUST SULLIVAN, M.A.E., Assistant Professor of Art
University of Illinois (B.A., 1943); School of the Art Institute of Chicago; Illinois Institute of Technology (M.A.E., 1953).

JOHN SUMRALL, M.M., Assistant Professor of Music
Eastman School of Music (B.M., 1959; M.M., 1963); University of Illinois.

BANGALORE SURESHWARA, Ph.D., Visiting Assistant Professor of Civil Engineering
University of Mysore (B.E. [Civil], 1963); University of Notre Dame (M.S., 1968; Ph.D., 1971).

JOHN SWIERCZEWSKI, Sr., M.S., Part-time Lecturer in Biology
Norwich University (B.S., 1962); University of Connecticut (M.S., 1964).

WAYNE E. SWIHART, M.A., Associate Professor of Education
Manchester College (A.B., 1940); Ashland College and Theological Seminary; The Ohio State University (M.A., 1945); Indiana University.

MICHAEL IRVEN SWYGERT, LL.M., Assistant Dean of the School of Law, Assistant Professor of Law
Carleton College; Valparaiso University (B.A., 1965; J.D., 1967); Yale University (LL.M., 1968).

JAMES CHIEN-HUA TAN, Ph.D., Associate Professor of Biology
Chung-Shing University, Republic of China (B.S., 1957); Montana State University (M.S., 1961); Slippery Rock State College; North Carolina State University at Raleigh (Ph.D., 1968).

MARGARETTA SACKVILLE TANGERMAN, M.A.S.W., Professor of Social Work
Northwestern University; Indiana University (B.A., 1946); The University of Chicago School of Social Service Administration (M.A.S.W., 1947). A.C.S.W.

LOWELL JOHN TEICHRIOEW, M.A., Assistant Professor of English
Bethel College (B.A., 1958); University of Arkansas (M.A., 1959); University of Amsterdam, The Netherlands; University of Wisconsin; University of Cambridge; University of New York at Buffalo.

FREDERICK H. TELSCHOW, D.M.A., Associate Professor of Music
Valparaiso University (B.A., 1951); Concordia Theological Seminary, St. Louis, Missouri; University of Nebraska (M.M., 1960); Eastman School of Music (D.M.A., 1970).

KARL THIELE, M.A., Part-time Assistant Professor of Theology
St. John's College; Concordia Theological Seminary, St. Louis, Missouri (B.A., M.Div., 1960); Oklahoma City University; University of Oklahoma (M.A., 1961); University of Tulsa.

FREDRICH H. THOMFORDE, JR., J.D., Assistant Professor of Law
Concordia Collegiate Institute; Concordia Senior College; Valparaiso University (B.A., 1963; J.D., 1966).

PAUL EDWARD THUNE, B.A., Registrar with rank of Assistant Professor, Secretary of the Faculty, Clerk of the University Senate
University of Notre Dame; Valparaiso University (B.A., 1948).

PAUL LEO TILLY, M.B.A., Instructor in Administration

JUDITH THUROW TIMMEL, M.A., Instructor in Foreign Languages
Valparaiso University (B.A., 1967); University of Texas (M.A., 1969).

MIRTHA TOLEDO, LL.D., M.S., Instructor in Foreign Languages
Villanova University, Havana, Cuba (LL.D., 1959); Indiana State University (B.A., 1964; M.S., 1965); Universidad Central de Madrid, Spain; Indiana University.

ALBERT RAYMOND TROST, JR., Ph.D., Assistant Professor of Government

David George Truemper, S.T.M., Instructor in Theology
Concordia (Junior) College, Milwaukee, Wisconsin (Diploma, 1959); Concordia Senior College, Fort Wayne, Indiana (B.A., 1961); Concordia Theological Seminary, St. Louis, Missouri (M.Div., 1965; S.T.M., 1969).

† Allen Edmund Tuttle, Ph.D., Professor of English
Washburn College (A.B., 1938); The University of Chicago; Northwestern University (A.M., 1947; Ph.D., 1950).

Herbert H. Umbach, Ph.D., Professor of English
Concordia (Junior) College, Fort Wayne, Indiana (Diploma, 1926); Concordia Theological Seminary, St. Louis, Missouri (M.Div., 1929); Washington University (M.A., 1930); Cornell University (Ph.D., 1934); American University.

Stephanie Edna Umbach, M.A., Assistant Librarian with rank of Assistant Professor
Valparaiso University (B.A., 1959); Indiana University (M.A., 1961).

Audrey Andreyevna Ushenko, M.A., Instructor in Art
Indiana University (B.A., 1965); School of the Art Institute of Chicago; Northwestern University (M.A., 1967).

Thomas W. Van Hof, M.A., Instructor in English
Trinity Christian College; Calvin College (A.B., 1965); Purdue University (M.A., 1967).

Gerhard A. Vater, M.S. in E.E., Associate Professor of Electrical Engineering
University of Wisconsin (B.S. in E.E., 1937); Illinois Institute of Technology; Purdue University (M.S. in E.E., 1960).

Charles Reifers Vaughan, J.D., Part-time Lecturer in Law
Indiana University; Valparaiso University (J.D., 1957).

Venturino Venturini, S.J.D., Visiting Professor of Law
University of Ferrara, Italy (B.A., B.Litt., 1949; S.J.D., 1955); Northwestern University (LL.M., 1961).

Merlyn C. Vocke, Ph.D., Associate Professor of Electrical Engineering
Valparaiso University (B.S. in E.E., 1955); University of Notre Dame (M.S. in E.E., 1957); Purdue University; University of Iowa (Ph.D., 1971).

Wayne James Von Bargen, M.S., Part-time Assistant Professor of Psychology

On leave of absence, Spring Semester.

Spring Semester only.

Spring Semester only.
Jerry M. Wagenblast, M.S., Assistant Professor of Mathematics
Purdue University; Illinois Institute of Technology (B.S., 1962; M.S., 1967); Indiana University; University of California, Santa Barbara; University of Notre Dame.

Rudolph C. Waldschmidt, Ph.D., Professor of Psychology
Concordia Teachers College, River Forest, Illinois; Valparaiso University (A.B., 1936); The University of Chicago (Ph.D., 1957).

Lou Jeanne Walton, M.A., Part-time Assistant Professor of Social Work
Valparaiso University (B.A., 1960); University of Illinois; The University of Chicago (M.A., 1969).

Lucille E. Wassman, Ed.D., Executive Director, Deaconess Program, Part-time Assistant Professor of Religious Education

Ernest Rogers Webster, Ed. D., Assistant Professor of English
University of North Carolina (A.B., 1962; M.A.T., 1965); University of Northern Iowa; Ball State University (Ed. D., 1970).

Burton D. Wechsler, LL.B., Professor of Law
University of Michigan (B.A., 1947); University of Colorado; Oklahoma Agricultural and Mechanical College; Harvard University Law School (LL.B., 1949).

Nola Jean Wegman, Ph.D., Associate Professor of English
Northwestern University, (B.S., 1953; M.A., 1954; Ph.D., 1967)

St. Louis Albert Wehling, J.D., Professor of Government
University of Illinois (A.B., 1932); The University of Chicago (J.D., 1935); University of Southern California (A.M., 1940).

Robert James Weinhold, B.A., Assistant Professor of Theology
St. Paul's (Junior) College (A.A., 1949); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1952; Diploma, 1955).

Bernard Eugene Weiss, M.A., Assistant Professor of Physical Education, Coach, Tennis; Assistant Coach, Basketball
Wittenberg University (B.S.Ed., 1960); Ohio State University (M.A., 1968).

Marvin D. Weiss, M. Ch. E., Assistant Professor of Mechanical Engineering
Brooklyn College; Cooper Union; George Washington University (B.S. in Eng., 1949); Polytechnic Institute of Brooklyn (M.Ch.E., 1952).

Michael Eric Weissbuch, M.A., Instructor in Sociology
State University of New York at Plattsburgh (B.A., 1969); Ball State University (M.A., 1970).

Ronald West, M.A. in L.S., Part-time Instructor in History
Indiana University (B.M.E., 1960); Purdue University; Western Michigan University; Valparaiso University (M.A. in L.S., 1967).

Suzanne Flynn Whitehead, M.S., Assistant Professor of Nursing
Holy Cross School of Nursing; Case-Western Reserve University (B.S., 1959); University of Pennsylvania (M.S., 1962).

Normand John Widiger, A.B., Assistant Professor of Theology
St. John's College (A.A., 1940); Concordia Theological Seminary, St. Louis, Missouri (A.B., 1945); University of Alabama; The University of Chicago.

Richard William Wienhorst, Ph.D., Professor of Music
Valparaiso University (B.A., 1942); American Conservatory of Music (M.M., 1948); Ecoles D'Art Americaines du Fontainebleau (Diploma, 1951); Albert Ludwigs Universitat, Freiburg, Germany; Eastman School of Music (Ph.D., 1962).

On sabbatical leave, Spring Semester.
SUE ESTHER WENHORST, M.A., *Part-time Instructor in Christ College*
Valparaiso University (B.A., 1951); Albert Ludwigs Universität, Freiburg, Germany; The University of Chicago (M.A., 1958).

DEBRA WILLIAMS, M.A., *Part-time Instructor in Physical Education*
Indiana University (B.S., 1970); Ball State University (M.A., 1971).

EDWARD JAMES WINROW, M. A., *Instructor in Physical Education, Coach, Track and Cross Country*
State University College at Buffalo (B.S., 1964); Ball State University (M.A., 1969).

RICHARD A. YASCO, M.A., *Part-time Visiting Lecturer in History*
Dominican College (B.A., 1963); The University of Chicago (M.A., 1965); Tokyo University (Fulbright Research Fellow 1968-1969).

BEVERLY CHING-CHENG CHEN YU, Ph.D., *Part-time Assistant Professor of Physics*
National Taiwan University, Taipei, Taiwan (B.S., 1962); University of Houston (M.S., 1965; Ph.D., 1967).

LESLEY M. ZOSS, Ph.D., *Professor of Mechanical Engineering*
Valparaiso University; University of Pennsylvania; Purdue University (B.S. in M.E., 1949; M.S. in M.E., 1950; Ph.D., 1952). Professional Engineer (Indiana).

EMERITI

HAZEL TALLMAN GUILLAUMANT, M.A., *Professor Emerita of Foreign Languages*
Montana State College (B.S., 1925); State University of Iowa (M.A., 1929); Universidad Nacional Autonoma de Mexico; La Sorbonne, Paris (Diploma, 1934); Le College de France.

JOHN WALLACE MORLAND, A.M., LL.B., J.D., *Dean Emeritus of the School of Law, Professor Emeritus of Law*
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).

OFF-CAMPUS COOPERATING PROGRAMS

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.

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).

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4Fall Semester only.
45Spring Semester only.
46Fall Semester only.
Valparaiso University appoints its Faculty without regard to race, sex, creed, color, or national origin.
<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
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<tbody>
<tr>
<td>1859-1860</td>
<td>The Rev. Francis D. Carley, M.A. (acting)</td>
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<tr>
<td>1860-1862</td>
<td>The Rev. Charles N. Sims, M.A.</td>
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<tr>
<td>1862-1864</td>
<td>The Rev. Erastus Herman Staley, M.A.</td>
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<td>1864-1867</td>
<td>The Rev. B. Wilson Smith, M.A.</td>
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<td>1867-1869</td>
<td>The Rev. Thomas Bond Wood, M.A.</td>
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<tr>
<td>1869-1871</td>
<td>The Rev. Aaron Gurney, M.A.</td>
</tr>
<tr>
<td>1871-1873</td>
<td>(The presidency vacant, no acting president)</td>
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<tr>
<td>1873-1897</td>
<td>Henry Baker Brown, A.B.</td>
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<tr>
<td>1897-1919</td>
<td>Oliver Perry Kinsey, A.M. (acting)</td>
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<tr>
<td>1897-1920</td>
<td>Henry Kinsey Brown, M.A.</td>
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<tr>
<td>1920-1921</td>
<td>Daniel Russel Hodgdon, A.B., LL.D.</td>
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<td>1921-1922</td>
<td>John Edward Roessler, A.M., Litt.D.</td>
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<tr>
<td>1922</td>
<td>Milo Jesse Bowman, A.M., LL.B., LL.D.</td>
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<tr>
<td>1923-1926</td>
<td>Horace Martin Evans, M.D.</td>
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<tr>
<td>1926</td>
<td>The Rev. John C. Baur (acting)</td>
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<tr>
<td>1929-1930</td>
<td>Executive Committee (The Rev. John C. Baur, Mr. Albert Frank Scribner,</td>
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<tr>
<td></td>
<td>Dean Frederick William Kroencke, and Dean Henry Herman Kumnick)</td>
</tr>
<tr>
<td>1930-1939</td>
<td>The Rev. Oscar Carl Kreinheder, D.D.</td>
</tr>
<tr>
<td>1939-1940</td>
<td>Walter George Friedrich, Ph.D. (acting)</td>
</tr>
<tr>
<td>1968-</td>
<td>The Rev. Albert G. Huegli, Ph.D., LL.D., D.D.</td>
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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 University 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 College 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, adjoins the industrial communities of the Calumet District. The community is served by Greyhound and Trailways Bus Lines. Commuter service is available from the local airport to the major airports in Chicago.

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

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

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

ACCREDITATION

Valparaiso University is on the approved list of the North Central Association of Colleges and Secondary Schools, the State Board of Education 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 Ameri-
can Council on Education, the Association of American Colleges, the Coun-
cil 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 pro-
grams 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 educa-
tion, 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 mem-
ers 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 con-
ducted 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 min-
istry, and the arts. Three choirs, groups of musicians, students and faculty
participate in the preparation and worshiping 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 denomination.

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 community.

**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 Handbook*.

Certain offenses may cause the separation of a student from the University. The University reserves the right to terminate a student’s enrollment whenever, in its opinion, his conduct is prejudicial to the best interests of the University. Such a decision will normally be made only by the President of the University on the recommendation of the Campus Judicial Board.

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

As a member of National College Placement 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 Office keeps on permanent file the credentials (personal data and references) of all graduates who register, without any charge.

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

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

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 requirements 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
1951 W. H. Schlueter
1952 Emil C. Jacobs
1954 Fred Wehrenberg
1956 Emma (Mrs. Walter N.) Hoppe
1961 Theodore W. Eckhart
1963 Paul F. Amling
Walter H. Gross
Richard E. Meier
1964 Edward A. Seegers
Alfred C. Munderloh
1966 Paul Brandt
Robert C. Moellering
1970 Albert F. Scribner
1972 Arnold K. Weber

Chicago, Illinois
St. Louis, Missouri
Cleveland, Ohio
Fort Wayne, Indiana
Cleveland, Ohio
Brentwood, Missouri
Mt. Prospect, Illinois
Flossmoor, Illinois
Evansville, Indiana
River Forest, Illinois
Detroit, Michigan
Fort Worth, Texas
Fort Wayne, Indiana
Valparaiso, Indiana
Camden, New Jersey

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.
GENERAL INFORMATION

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 AND PRIZES

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 Prizes
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 political science major who has the highest average in at least 18 credit hours of political science 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 is empowered by the Instrument for Internal Governance with executive, legislative, and judicial powers over the student body. It is composed of the student representatives elected each semester and officers elected in the Spring. Senate is to enable students to assume the privileges and responsibilities of self government. It also coordinates the activities of the student publications, WVUR, and the Central Activities Board.

The Elections Committee supervises the election of Student University Senators, Student Senate offices, and senators, and is responsible for all campus-wide elections such as Spring Festival.

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.

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 weekly. The Beacon, the University yearbook, is published in the spring. The Lighter, a variety magazine. The Candle, a supplementary guide to undergraduate courses, is published at the beginning of each semester.

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, Women’s Recre-
ation 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 refresh-
ments. Private dining rooms are available, too, for special dinners.

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

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

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

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 con-
stituency, and other friends of the University—the program of intercol-
legiate 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 Col-
legiate 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.

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 way 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 Interfraternity 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 Central Activities 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. Moellinger 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; Vice-President Harold Gram; Professor Walter Friedrich; Professor Vera T. Hahn; Professor John Strietelmeier; Professor Jack Hiller; Associate Professor Byron Ferguson, Secretary; 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 227,000 standard volumes, 24,000 government publications, 44,000 pamphlets, and over 21,000 bound volumes of periodicals. The library also holds 2,100 reels of microfilm and 6,218 units of microcards. Microfilm and microcard readers are available.

It receives by gift or by subscription over 1,352 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.

THE CAMPUS

Seventy-four 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 win-
dow, 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, con-
sists 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, 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 $200.00 per semester.

Alumni Hall—a residence hall for men and women, first occupied in 1966. The room only fee is $295.00 per semester. Women will be housed on the upper floors and men on the lower floors.

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 general classrooms and large laboratories for physics. The third floor contains laboratory space for the Department of Psychology.

Bogarte Hall—contains classrooms and offices for the Department of Speech and Drama.

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 only fee is $295.00 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 only fee is $295.00 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 Ad-
ministration; 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 Admissions*—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 $245.00 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, multi-purpose room, additional dressing rooms, offices, and public restroom facilities.

*Heimlich Hall*—contains general-purpose classrooms and several studios for the Department of Art. 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 only fee is $295.00 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 only fee is $295.00 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.

*LeBien Hall*—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 $245.00 per semester. The Computer Center is located in the north wing on the ground floor.

*Moody Laboratory*—completed in 1946, houses psychology laboratories.

*Music Building*—practice rooms and offices for the Department of Music, first occupied 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 only fee is $295.00 per semester.

*Stiles Hall*—purchased in 1946 and renovated, it contains apartments for 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 285 freshman men, was first occupied in 1959. The room only fee is $295.00 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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<td>College of Arts and Sciences—</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 administered, by authorization, as the Student Senate determines.

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-

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*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

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

SENIORS, GRADUATE, LAW, AND MARRIED STUDENTS—Students in these categories, other than married students, may apply to live in University residence halls. Students in all these categories may examine in person in the Housing Office a listing of rooms in private homes, apartments, and homes for sale or rent. Every landlord whose property is listed 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 between students and landlords.

*For Selective Service purposes, a full-time student is one who is carrying a minimum 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.
APPLICATION—For University housing is mailed to each new student with the Permit to Enter form. This application and the $50.00 housing deposit should be returned to the Admissions Office as soon as possible (former students returning should mail their deposit to the Business Office). All checks should be made payable to Valparaiso University Association, Inc. A student who occupies a room in a residence hall will have $50.00 credited to his 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 April 11.

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

REFUNDS—Of $25.00 will be given if a written notice of cancellation is received by the HOUSING OFFICE on or before June 1 for new students or August 1 for continuing students for the fall semester. No refund will be given after these dates. If a student is denied admission or readmission or if the University should be unable to provide housing, the full amount of the deposit will be refunded.

AN AGREEMENT—is entered into by each student assigned University housing which makes it mandatory for him 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 driers 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.

Students may pay cash for each meal, may purchase meal coupon books which can be used to pay for snacks or meals, or may purchase a board contract for an entire semester (20 meals per week).

Meal coupon books will be available in $10.00 denominations from the Business Office and the dining rooms. Coupons may be used in any dining facility on campus, including the Valparaiso Union. The contract plan is priced at $250.00 per semester.

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

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$ 960.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>82.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>545.00</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>100.00</td>
</tr>
<tr>
<td></td>
<td>$1,687.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College of Business Administration</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$ 960.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>82.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>545.00</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>100.00</td>
</tr>
<tr>
<td></td>
<td>$1,687.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College of Engineering</th>
<th>Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$ 960.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>82.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>545.00</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>100.00</td>
</tr>
<tr>
<td></td>
<td>$1,687.00</td>
</tr>
</tbody>
</table>
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*

Parents are billed approximately three weeks prior to registration with an invoice containing the estimated charges for the coming semester. Either payment or evidence of participating in an approved education expense payment plan as outlined below must be received in the Business Office a week prior to registration. The minor adjustments in the billing required by additional course fees, for example, are detailed in a statement forwarded to the parents approximately one month after registration. Credits for scholarships, loans, grants, etc., may be deducted in arriving at the balance due prior to registration.

Amounts to be earned through campus employment may not be deducted, since these are paid during the course of the semester directly to the student through our regular payroll procedure.

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 commercial plans for the payment of educational expenses:

(a) Insured Tuition Payment Plan, which can spread the cost of tuition plus room and board charges over period of 49 months or as many as 80 months on an extended payment plan.

(b) College Aid Plan. This plan permits the parents to select a schedule which may be more flexible than (a) above.

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*The student is responsible for her own transportation whenever it is necessary for off-campus clinical experience.*

**See Special Fees, p. 61.**
(c) The Tuition Plan, Inc., provides services similar to (b) above.
(d) Education Funds, Inc., provides a means of paying out of current income where borrowing is not required. A ten-month payment program is available to cover each academic year.

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

**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 classes 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>$295.00 Rate</th>
<th>$245.00 Rate</th>
<th>$200.00 Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$860.00</td>
<td>$225.00</td>
<td>$190.00</td>
<td>$155.00</td>
</tr>
<tr>
<td>2</td>
<td>775.00</td>
<td>200.00</td>
<td>170.00</td>
<td>135.00</td>
</tr>
<tr>
<td>3</td>
<td>685.00</td>
<td>175.00</td>
<td>150.00</td>
<td>120.00</td>
</tr>
<tr>
<td>4</td>
<td>600.00</td>
<td>150.00</td>
<td>125.00</td>
<td>100.00</td>
</tr>
<tr>
<td>5</td>
<td>515.00</td>
<td>125.00</td>
<td>105.00</td>
<td>85.00</td>
</tr>
<tr>
<td>6</td>
<td>430.00</td>
<td>100.00</td>
<td>85.00</td>
<td>70.00</td>
</tr>
<tr>
<td>7</td>
<td>350.00</td>
<td>75.00</td>
<td>65.00</td>
<td>50.00</td>
</tr>
</tbody>
</table>

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 assessments were made.

**SPECIAL FEES**

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

Automobile Registration—$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—$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

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1Based on the day the application to withdraw is submitted to the Office of the Registrar.

See p. 90.
record is released until the student has met in full his obligations to the University.

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

**STUDENT SENATE FEE**

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

**FINANCIAL AID**

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.

**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 student members.
- **Mr. and Mrs. Oliver W. (Emma) Allen.** Preministerial student—$600.00 annually.
- **Alpha Phi Delta Sorority.**—Upperclass sorority member.
- **Anna B. Althans.** Social work major—$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.
- **Inez C. and W. H. Bischel Scholarship.** Varying amounts for needy students.
- **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.
- **Brown Dairy.** Resident of Porter County, Indiana—$500.00 annually.
- **Julius C. Bruechener Scholarship.** Any student in need of assistance.
- **Luella R. and Herbert P. Buetow Scholarship.** Worthy student (s) who plans to enter upon a career in the broad service of the Church. The award will be made on the basis of academic ability, character, future promise, and need for financial assistance.
- **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.

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

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.

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

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—$300.00 annually.

Joyce Huegli Memorial Scholarship. Awarded annually in varying amounts to student in the College of Nursing.

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 upperclass 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 Jochem. 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. Junior or Senior student in the Lutheran Deaconess Training Program—$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. Moeller. 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—$1,000.00 annually.

Owens-Corning Fiberglas. Preference to Engineering student(s) —$1,500.00.

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.

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.

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

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

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

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

Stanley B. Sink Scholarship. Valparaiso Community student.

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

Margaret Krause Smith. Student from Tennessee, preferably Chattanooga area—$1,000.00 annually.
Bertha A. Staede Memorial. Music major—resident of Minnesota—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 Wambsganss 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.
Zuehlke Scholarship Fund. Assist worthy student (s) in the humanities.
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.
STUDENT LOAN FUNDS

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 or for full-time military 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 pertaining to qualifications for this fund may be obtained from the Dean of the School of Law.

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

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

The Valparaiso University Association Loan Fund. A University Loan Fund has been established to help those students who cannot qualify for a scholarship but who must have financial assistance or those with scholarships who 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 Washington Semester Program Loan Fund. Only students fully accepted for the Washington Semester Program at the American University are eligible. Loans up to one hundred dollars are given; the student is expected to repay the loan plus a donation to the principal of the fund of twenty-five per cent within five years after leaving the University.

The Janette G. Wesemann Student Loan Fund was established for the purpose of making loans primarily to qualified pre-law and law students, preferably from the State of Illinois, who are in need of financial assistance to continue their education. Loans from this fund are available to students who are making satisfactory progress toward a degree.

**REPAYMENT TERMS**

For: The Overton, Indiana Federation of Clubs, Schoenherr, Henry Strong, VUA, and Wesemann Loans: No interest accrues while the bor-
rower 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.

**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 seven weeks on the undergraduate and graduate levels, begins on Monday, June 19, and terminates on Tuesday, August 8. Courses on the undergraduate level will be offered in the following subject matter areas: Accounting, Art, Biology, Economics, Education, English, Finance, Foreign Language, Geography, History, Management, Mathematics, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Social Work, Sociology, Speech and Drama, and Theology.

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

For the first time a mini summer session of three and one-half weeks will be offered from May 22 to June 15 in 1972. This short term session is designed primarily for our resident students.

The combination of the mini and the regular summer sessions permits students to earn almost a semester of credits during the summer months.

Also for the first time a two week study-tour to Mexico will be offered for three semester hours of credit, August 8 to August 23.

For further information write to: Director of Summer Session.

**SUMMER SESSION FEES**

June 19 to August 8, 1972

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Matriculation</td>
<td>$ 5.00</td>
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<tr>
<td>Tuition per credit hour</td>
<td>$30.00</td>
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<tr>
<td>General Fee</td>
<td>$15.00</td>
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<tr>
<td>Private Music Lessons (Organ, Piano, Voice, String, etc.)</td>
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<tr>
<td>15 30-minute lessons</td>
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<tr>
<td>8 30-minute lessons</td>
<td>$20.00</td>
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**THE EVENING DIVISION**

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 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

*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.
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 professional workers 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 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 EDUCATION

This program, authorized for the first time as of the school year 1972-1973, is to be used by elementary teachers in professionalizing their certificates. The Master of Education degree program is open only to certified elementary teachers or persons with a planned program for achieving
certification. To be eligible for this degree (M.Ed.), students must complete at least 33 semester credits, distributed as follows:

**Requirements for the Degree—Master of Education**

Professional Education ........................................ 12 semester credits
(a minimum of six hours of 300 courses at Valparaiso University)

Psychological Foundations of Education ..................... 3 semester credits
(Education 310, Psychology 277, 280, 303 or 315)

Subject-matter Field(s) other than education ............ 12 semester credits
(a minimum of six hours of 300 courses at Valparaiso University)

Electives .......................................................... 6 semester credits

Total minimum requirement .................................... 33 semester credits
(Minimum 300 courses at Valparaiso University) .... 15 semester credits

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

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

Students must maintain a grade point average of 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 seven 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 third week of a seven 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’s Degree 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 Master’s Degree 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. A student who has not made application for candidacy (see page 75) 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 must consult the Chairman of the Department of Education, as well as their academic advisers, in planning their programs.

Elementary teachers using the Master of Arts in Liberal Studies to professionalize a teaching certificate will be required to complete 12 semester hours in professional education (a minimum of 6 hours of 300 courses) and 3 semester hours of related coursework. (Since a maximum
of 10 hours of education may be used toward a Master of Arts in Liberal Studies, this requirement, in effect, raises the total hours required for elementary teachers to 34 hours).

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

GRADUATE COURSES

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

FEES

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

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

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

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.

*If, for any reason, a graduate student registers for a given semester in graduate and/or undergraduate courses only, he will be charged the regular charges applicable to each division of the University.
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.
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 should normally be a graduate of an approved secondary school or possess a state high school equivalency certificate. Exceptionally well qualified students will be admitted prior to graduation, if their candidacy is endorsed both by their high school officials and their parents. 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. Veterans, who may not have completed requirements for high school graduation, will be given consideration for admission under the same conditions.

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. 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 a grade-point average of 1.5 or better* is attained on work completed at any one institution, and which has not previously been evaluated.

Credits earned more than fifteen years ago will be accepted toward graduation requirements on a provisional basis, subject to validation by first year's work (30 semester hours) completed in residence with a "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 studies are not applicable toward any degree granted by Valparaiso University. Also, credits earned in Developmental Reading are treated in the same manner as secretarial studies.

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 57), financial aid (page 62), residence requirement (page 95), and graduation (page 94).

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 one course requirement must be fulfilled at Valparaiso University.

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

Advanced Placement—Credit by Examination

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

*C equals 1.0; no consideration is given to "plus" or "minus".
1. The Advanced Placement Program of the CEEB—AP.

Applicants for admission, who take one or more of the Advanced Placement examinations in May, will receive credit toward a degree for scores of "5" (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.

2. The College Level Examination Program of the CEEB—CLEP.

Credit is given for satisfactory scores in the following subject area examinations (possible credit in parenthesis):

- American Government (3 hours), American History (6 hours), Biology (4 hours), General Chemistry (8 hours), General Psychology (3 hours), Introductory Calculus (4 hours), Introductory Economics (6 hours), *Introductory Accounting (6 hours), *Introductory Business Law (3 hours), *Introductory Business Management (3 hours), *Introductory Marketing (3 hours), *Money and Banking (3 hours), *Statistics (4 hours), Western Civilization (6 hours).

*These tests are not recommended for high school students.

As of this printing, other examinations are under consideration for the granting of credit.

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


For incoming students (both freshmen and transfer) during the orientation period which precedes each semester, placement tests are given in all of the foreign languages (French, German, Greek, Latin, Russian, Spanish), biology, chemistry, American and Western World history, and mathematics. These tests provide an opportunity for students to attain advanced placement, receive credit (as described below), or to meet certain general education requirements for a degree.

A. Areas where Placement and Credit is Awarded:

- Biology:

  Students who place into the advanced biology course will receive four hours of credit. (See page 85)

- Chemistry:

  Students who score sufficiently well, will be placed in Chemistry 63. Upon satisfactory completion of this course they will receive eight hours of credit. (See page 85)

- Foreign Languages:

  In the area of foreign languages, students who place into the third
semester level i.e.: (30 course) receive four hours of college credit and need only pass that course to complete the language requirement. Those who place above the third semester level are granted eight hours, and are considered to have completed the language requirement. (See page 85)

Mathematics:
Students in mathematics who place into Math. 36, will receive two hours of credit. (See page 85)

B. Areas where Placement is Awarded:

History:
Students of both American and Western World History who score sufficiently well will be able to take advanced courses and bypass the introductory course. While no credit is given at the present time, this does count toward meeting the general education requirements.

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 271 and 273 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 is granted to students who have demonstrated their ability to be successful in college work through their high school record 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.

Since Valparaiso stresses flexibility and attending to individual needs in its own programs, no one particular high school program is required. Students planning to attend Valparaiso University should take the strongest possible college preparatory program available to them. Individual selec-
tions within the college prep category are best made by the student and his high school counselor.

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. It is recommended that the student have a year of both biology and chemistry. If the high school provides the opportunity, a second year of biology will better prepare the student for the nursing curriculum.

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 269.

Requirements for Admission to the Graduate Program
For detailed requirements for admission to the graduate program, see page 75.

*Included in the 3½ units should be 1½ units of algebra, 1 unit of geometry, and ¾ unit of trigonometry. Business, general, or shop mathematics may not be counted.
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—these 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.

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 a grade-point average of 1.5 or better* is attained on work completed at any one institution, and which has not previously been evaluated.

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, Nursing</strong></td>
</tr>
<tr>
<td>1-15</td>
<td>1-16</td>
</tr>
<tr>
<td>16-30</td>
<td>17-32</td>
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<td>31-46</td>
<td>33-48</td>
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<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

*equals 1.0; no consideration is given to "plus" or "minus".
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 274 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.

*Credits and grades earned in ensemble music give no quality points.
†In the School of Law, this marking system will be used for the third year class of 1972-1973 only. For the first and second year classes of 1972-1973, see page 272.
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 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 88 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 124 semester hours will have 124 quality points, 124 credits, and a standing of one (1.0). An average mark of B will give the student 248 quality points, 124 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 to be classified as a second year student and 60 hours to be classified as a third year student.

Classification of Courses—The courses offered by the University are classified as (a) lower division courses, numbered 1-99; (b) upper division courses, numbered 100-199; and (c) graduate courses, numbered 200-399.

Graduation

Responsibility of Student—Every candidate for a degree is personally responsible for meeting all requirements for graduation. No University official can relieve him 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 74 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 confers the degree of Bachelor of Science in Business Administration. Upon

*Three or more years in the School of Law.
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 Education. 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 bachelor’s 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 76. Candidates for the J.D. degree, see page 274. 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>124</td>
</tr>
<tr>
<td>Bachelor of Science (except in combined curricula)</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Business Administration</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Education</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Home Economics</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>124</td>
</tr>
<tr>
<td>Bachelor of Science in Physical Education</td>
<td>124</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 Education</td>
<td>33</td>
</tr>
</tbody>
</table>

**RESIDENCE REQUIREMENTS**—Candidates for all bachelor's 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. Candidates for the J.D. degree, see page 274. Candidates for the Master's degree, see page 76.

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 degree at the end of the Fall Semester 1972-1973 must make formal application for his degree on a form provided for this purpose by the registrar's office not later than May 1, 1972. A student who wishes to receive his degree at the end of the Spring Semester 1972-1973, or the Summer Session of 1973, must make formal application for his degree on a form provided for this purpose by the registrar's office not later than November 1, 1972. 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 degree at the end of the summer Session of 1973 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.

Bachelor's 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.

3. For the Professional degree (J.D.), see page 274.

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, pro-

*For the School of Law, refer to page 273.
vided 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 15 hours in the College of Engineering, for at least 14 hours in the College of Business Administration, or for at least 14 hours in the College of Nursing.

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

TRANSCRIPTS OF ACADEMIC RECORDS

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 including changes in tuition and fees, 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, and to change tuition and fees at any time.
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 101-103). For these 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>
<td></td>
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<td></td>
</tr>
<tr>
<td>Religion</td>
<td>9</td>
<td>9</td>
<td>9</td>
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</tr>
<tr>
<td>Language and Communications</td>
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<tr>
<td>English</td>
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<td>Foreign Language</td>
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<td>4-8</td>
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<tr>
<td>Speech</td>
<td>0</td>
<td>0</td>
<td>2-3</td>
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<td>3</td>
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<tr>
<td>Humanities and Fine Arts</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Literary Studies</td>
<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td>History or Philosophy</td>
<td>3</td>
<td>3</td>
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<td>Literature or Fine Arts</td>
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<tr>
<td>Behavioral and Social Sciences</td>
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<tr>
<td>Natural Sciences and Mathematics</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>21</td>
<td>4</td>
</tr>
<tr>
<td>General Studies</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3*</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Sub-total for General Education</td>
<td>57</td>
<td>53-57</td>
<td>51-52</td>
<td>49</td>
<td>79</td>
<td>43</td>
</tr>
<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 1972-1973 graduates)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</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, except for students majoring in Physical Education. Non-music majors are limited to 16 credits in applied music, of which no more than four may be in ensemble music. For further clarification regarding applied music and ensemble, see page 172.

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 130 and page 164 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 any course to meet more than one general education requirement.

2. Only courses of at least three credits may be used in meeting general education requirements (excluding the requirement in physical education).

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 partial fulfillment of each one of the seven basic categories of the general education requirements, with the following exceptions:
   a. A student majoring in the Department of Foreign Languages may use two courses in his major to fulfill the Foreign Language requirement if he fulfills the Literature and Fine Arts requirement with a course outside his major.
   b. A student majoring in Physical Education may use two courses in his major to fulfill the Physical Education requirement.
   c. A student majoring in Religion may use three courses in his major to fulfill the Religion requirement.

   Note: This restriction is also waived in the case of a student who successfully completes English 65 to fulfill the Literature and Fine Arts requirement, but whose initial declaration of an English major occurs after his enrollment in English 65.

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. Course #20 in a foreign language in which the student has no more than one year of high school credit, or Course #30 in any foreign language. (A student with more than one year of high school credit in a foreign language may not earn college credit in a First Semester course at Valparaiso University.)

3. Humanities and Fine Arts. At least 10 credits including the following:
   a. English. One course (4 credits) in Literary Studies.
   b. Literature or Fine Arts. One course (3 credits). (Only courses of a historical-critical nature may be selected from the fine arts. See page 105 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, History*, Political Science, Psychology*, and Sociology. *A student may not apply more than one course in History and 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 liberal arts course (3 credits) of an integrative nature from outside the student's major field. The following departmental courses may be used to fulfill this requirement: Biology 153; English 180; Foreign Languages —Course #100 in French, German, Greek, Latin, Russian, or Spanish; Geography 126; History 184 or 185; Home Economics 115; Music 120; Political Science 193; or Psychology 160.

In addition, courses numbered from 100 to 109 in Fine Arts, Humanities, Social Science, or Science are applicable.

7. Physical Education. Two single credit courses (2 credits). See page 100 for specific requirements.

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

**This requirement must be fulfilled at Valparaiso.
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 departments of the same name. In addition certain interdisciplinary programs are listed on pages 114 and 115. No more than 48 credits in any one field may be included in the 124 total credits required for graduation.

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. This plan must include all credits earned in the major field except those credits used for General Education.
   b. He may complete a second academic major. A second major may be selected from the list given above or from Home Economics or Physical Education. A student with an interdisciplinary major should consult pages 114 and 115 for information concerning implementation of this requirement.

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 101 to 103) 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 173 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 173 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 101 to 103) 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 164 for specific requirements of this major.
3. The Speech requirement in the Language and Communications Area.

**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 101 to 103) 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 Physical Education. See page 184 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 133 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.

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 interdepartmental cooperation in offering courses and in academic advising (see page 43 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. An advanced course 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:

1. An intermediate (#65) or advanced literature course in the Department of English.

2. An advanced literature course in one of the foreign languages or a course in literature in translation (#50) taught by the Department of Foreign Languages.

3. An historical, critical course 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. Prerequisite: junior or senior standing.

**Humanities 100-109 GENERAL STUDIES IN HUMANITIES. Cr. 3.** An integrative topic is presented. Prerequisite: Junior or Senior standing.
THE DIVISION OF THE BEHAVIORAL AND SOCIAL SCIENCES

The Departments of Economics, Geography, History, Political Science, 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. Prerequisite: junior or senior standing.

The following courses are offered by this liberal arts area in support of major programs 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 118 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 103.

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. Prerequisite: Junior or Senior standing.

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—Area Major, Major.
n. Physics—Major, Minor.
o. Psychology—Minor.
p. Social Studies—Area Major, Major, Minor.
q. Speech—Major, 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 bachelor's 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 formal affiliations with the Schools of Medical Technology at St. Mary Mercy and Methodist Hospitals, Gary, Indiana, Cleveland Lutheran Hospital, Chicago Wesley Memorial Hospital, and Fort Wayne 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 be in one of the science fields.
4. 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 (Political Science 1)
- The Government of the United States (Political Science 2)
- The Field of Law (Political Science 10)
- The Constitution of the United States (Political Science 163)
- The History of the United States (History 30 and 31)
- Ethics (Philosophy 123)
- Logic (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 (Political Science 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)
- Introductory Geography (Geography 50 and 52)
- Introduction to Political Science (Political Science 1)
- Comparative Politics (Political Science 44)
- International Relations (Political Science 65 and 66)
- The Diplomacy of the United States (Political Science 111)
- American Foreign Policy (Political Science 112)
- Public Administration (Political Science 162)
- International Law (Political Science 165)
- Foreign Political Areas (Political Science 153, 154, 158)
- Western Civilization (History 1 and 2)
- The History of the United States (History 30 and 31)
- Introductory Sociology (Sociology 1)

Additional information will be found under the Department of Political Science on page 191.

For information concerning the Angus Ward Foreign Service Scholarship, see page 68.

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 extracurricular 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 pro-
gram. 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 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 paracurricular 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 religion, 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

*As of the academic year 1972-1973, it will not be possible to enter this Program.
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.

**SPECIAL PROGRAMS**

**GENERAL EDUCATION PROGRAMS**

**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.

**GROUP 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. Prerequisites: Approval of a faculty sponsor and the Dean of the College of Arts and Sciences.

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

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

**BLACK STUDIES PROGRAM**

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 bachelor's degree. In recent years special sections of introductory courses in English and Religion have been offered in connection with this program. In addition, courses in Black Humanities and The Black Urban Community were offered. Finally, certain regular offerings in History, Law, and Urban Studies were particularly appropriate to the program.

This program includes techniques of instruction and involves students in para-curricular and extra-curricular activities appropriate to the Black Experience.

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

Honors Work is designed for students of exceptional ability who might benefit by earning 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.

**INTERDISCIPLINARY MAJORS**

A student in the College of Arts and Sciences may propose a plan of study for an interdisciplinary major which the Dean of the College may approve provided the following conditions are satisfied:

1. The proposed plan of study includes at least 24 credits, (chosen from two or more departments) which are not used in meeting general education requirements.

2. The proposed plan of study includes a statement by the student which justifies the types of courses listed.

3. The proposed plan of study includes a statement by a faculty member which supports the plan and states that he is willing to serve as academic adviser to the student.

4. The proposed plan of study must be submitted to the Dean of the College prior to the date to file application of candidacy for the bachelor's degree.
INTERDISCIPLINARY URBAN STUDIES PROGRAM

A student with a first major in Economics, Geography, Political Science, 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 150, Political Science 155, 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 150, Political Science 155, 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

*For current list of courses, consult major adviser.
faculty. All credit hours are considered as residence work applicable to graduation from Valparaiso University. Students register at Valparaiso and pay the normal tuition, room without board, general fees and an additional travel expense which covers air travel and other transportation costs to and from either the Cambridge or Reutlingen center.

WASHINGTON SEMESTER PROGRAM

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 Political Science 1 will be considered candidates for this program.

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

For information concerning the Washington Semester Program Loan Fund, see page 71.

For a description of the three required courses of the Program, see page 193.

URBAN AFFAIRS 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 Political Science 1 and 2 will be considered candidates for this program.

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

**SEMESTER ON THE UNITED NATIONS**

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 Political Science 44 will be considered candidates for this program.

For information concerning the Valparaiso Branch of the American Association of University Women Loan Fund, see page 71.

For a description of the two required courses of the Semester, see page 193.

**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 VIGGA 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):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-112</td>
<td>Elements of Geology II</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-221</td>
<td>Introduction to Mineralogy</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-222</td>
<td>Introduction to Petrology</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-323</td>
<td>Structural Geology</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-334</td>
<td>Principles of Sedimentation and Stratigraphy</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-406</td>
<td>Introduction to Geo-Chemistry</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-411</td>
<td>Principles of Invertebrate Paleontology</td>
<td>3</td>
<td>IUN</td>
</tr>
<tr>
<td>G-490</td>
<td>Undergraduate Seminar</td>
<td>1</td>
<td>IUN</td>
</tr>
<tr>
<td>G-420</td>
<td>Regional Geology Field Trip</td>
<td>1</td>
<td>IUN</td>
</tr>
<tr>
<td>G-499</td>
<td>Undergraduate Seminar</td>
<td>1</td>
<td>IUN</td>
</tr>
</tbody>
</table>

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).

GARY (INDIANA) LUTHERAN TEACHING INTERNSHIP

This program makes it possible for selected majors in elementary education to spend one semester of their senior year serving as members of a teaching team at Gary Lutheran School. This school has a unique multi-racial, multiage grouped, open education program.

Students complete a six week training program in the summer prior to their service as interns. No tuition or fees are charged for the summer pro-
gram. Credit for 16 hours of professional course work is granted upon successful completion of the internship.

A small stipend is granted to students during this semester and free housing is furnished in Gary.

**ADJUNCT ACTIVITIES OF THE COLLEGE OFF-CAMPUS DIVISIONS**

Valparaiso University maintains an instructional staff in each of the following hospital schools of nursing: 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 cooperative programs, Valparaiso University teaches certain courses in natural sciences, social sciences, English, and religion. University course work done in either of these two 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.

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

MAJOR—A minimum of 27 credits in art. Courses must include Art 17, 21, 31, 33, 71, 120, 121 and 151.

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; Ceramics; Photography; 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 descriptions of these specialized programs are available from the chairman of the department. Field trips, Sloan art exhibitions and related art events are integral parts of the program of the Department of Art.

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 120 must be included.

APPROVAL OF SCHEDULES—Students taking a major or a minor 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.

COURSES IN ART

COURSES IN THE THEORY AND HISTORY OF ART

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. Included may be topics such as: Far Eastern Art, History of the Cinema, Modern Art since 1945, Primitive Art, Northern Renaissance Art, Byzantine Art, and American Art. This course may be repeated for credit when topics vary. Field trips and assessment of a fee are dependent on the needs of the particular topic.

114. ANCIENT ART. Sem. 2. Cr. 3. A study of the art of Ancient Egypt, Mesopotamia, Greece, and Rome. Offered in alternate years.

115. MEDIEVAL ART. Sem. 1. Cr. 3. A survey of the art and architecture of Europe from the first through the fourteenth centuries.

116. RENAISSANCE ART. Sem. 1. Cr. 3. A study of the art and architecture of the Renaissance in Europe during the 15th and 16th centuries.

117. BAROQUE ART. Sem. 2. Cr. 3. A survey of the art and architecture of Europe from 1600 to 1789. Offered in alternate years.
COURSES IN THE PRACTICE OF ART

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. 1. 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. Sem. 2. 0+9, Cr. 3. A basic course in the fundamentals of forming and organizing visual elements in three-dimensional space. Studio fee, $10.00.

NOTE: The following courses may be repeated for credit.

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

61. PHOTOGRAPHY. Each sem. 0+9, Cr. 3. Problems in forming photographic images for expressive aesthetic purposes with instruction in camera and darkroom techniques. Studio fee, $15.00.

71. LIFE DRAWING. Sem. 2. 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. Each sem. 0+9, Cr. 3. Problems in painting in oil and other media. Prerequisite: Art 21. Studio fee, $5.00.

131. GRAPHIC DESIGN. Each sem. 0+9, Cr. 3. Problems in the design of graphic mass communications with instruction in layout, typography, iconography, and finished art preparation. Actual graphic communications problems from the community are often worked on by the class, and many times student solutions are printed and used. Prerequisite: Art 31. Studio fee, $15.00.

151. SCULPTURE. Each sem. 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. Sem. 2. 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.

COURSES IN THE TEACHING OF ART

109. ELEMENTARY SCHOOL ART PROCESSES. Each sem. 0+9, or 0+12, Cr. 3. A basic course providing the prospective teacher with studio experiences in the selection, organization, and use of two- and three-dimensional art and craft materials for the elementary school. The fourth credit provides opportunities to work in elementary classrooms. This course may not be counted toward a minimum major or a minor in the department. Field trip. Studio fee, $15.00.

110. SECONDARY 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. This course may not be counted toward a minimum major or a minor in the department. Field trip. Studio fee, $15.00.
191. THE TEACHING OF ART. Sem. 1. Cr. 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

Note: The following courses may be repeated for credit.

196. SENIOR STUDIES. Each sem. 1+2, Cr. 1. 1+5, Cr. 2. 1+8, Cr. 3. 1+11, 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. In addition to his independent work, the student will participate in a regular series of Senior Studies Seminars.

198 (298). SPECIAL STUDIES. Each sem. 0+3, Cr. 1. 0+6, Cr. 2. 0+9, Cr. 3. 0+12, Cr. 4. Special work in the practice of art or the teaching of art arranged for by a professor and one or more students. Included may be, for example, work in the crafts, in liturgical design, or in areas of the practice of art or the teaching of art offered in the catalogue. A Satisfactory/Unsatisfactory grade may be given if so stipulated at the beginning of the course. Prerequisites for undergraduates: upperclass major or consent of the instructor. Prerequisite for graduates: undergraduate art major. Studio fee, $5.00 per credit hour.
THE DEPARTMENT OF BIOLOGY

Professor Krekeler (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 157, 159 or 170, 161, 175; and at least two credits in 185, Biological Problems, and/or 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 student who test out of the Unity of Life, 50, by taking a departmental examination will be granted 4 credits toward graduation.

COURSES IN BIOLOGY

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 St. Louis and Cleveland Divisions only).

42. ANATOMY AND PHYSIOLOGY. Sem. 2. 2+2, Cr. 3. A continuation of Biology 41. (Given in 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 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.

*Credit for Biology 50 may be earned through the College Level Examination Program (CLEP) subject examination in Biology.
61. GENETICS. Each sem. 2+3, Cr. 3. An introductory study (lecture problems, laboratory) of the basic laws of genetics, the physical and chemical basis of inheritance, genes as functional and structural units of heredity and development, and qualitative and quantitative aspects of genetic variation. Prerequisite: Biology 50. Laboratory fee, $5.00. (May not be counted toward the minimum General Education Requirement in the Natural Sciences and Mathematics. See Biology 62.)

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

63. 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. This will be offered as a short course.

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. 2. 2+3, 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 60 and 60 and junior standing. Laboratory fee, $5.00. (Offered 1972-1973. Not offered 1973-1974.)

105 (205). (Formerly 205.) BIOCHEMISTRY. (Also offered as Chemistry 105-205.) Sem. 2. 4+0, Cr. 4. The chemistry of proteins, carbohydrates, fats, and nucleic acid, and the changes these undergo during processes of digestion and metabolism; stress on physical biochemistry topics and enzyme kinetics. Prerequisite: Chemistry 71 or equivalent.

110. MICROBIOLOGY. Each sem. 2+5, Cr. 4 or 2+7, Cr. 5. A study of microbes including bacteria, viruses, rickettsiae and fungi with emphasis on understanding disease and applications for control. May be taken for 5 credits with consent of instructor by students who desire additional work in a hospital laboratory observing clinical diagnostic procedures and the role of the laboratory. Prerequisites: Biology 50 and Chemistry 44 or 52. Laboratory fee, $5.00. (May not be credited toward graduation by students who take Biology 159.)

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

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 1973-1974.)
137. 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.

153 (253). (Formerly 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. May be used to meet the General Studies requirement. Prerequisites: completion of general education natural science requirements and junior standing. Laboratory fee, $5.00.

157 (257). (Formerly 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.

159 (259). (Formerly 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.

161 (261). (Formerly 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.

170 (270). (Formerly 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.

175 (275). (Formerly 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.

185. 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. S/U grade.

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. S/U grade.

a. Bioethics
b. Biological Effects of Drugs
c. Biogeography
d. Biology of the Algae
e. Biology of Sex
f. Comparative Physiology
g. Endocrinology
h. Evolution (Prerequisite: Biology 63.)

i. History of Biological Thought

j. Human Genetics (Prerequisite: Biology 61.)

k. Immunology

l. Light and Life

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.
THE DEPARTMENT OF CHEMISTRY

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

MAJOR—A minimum of 25 credits in chemistry. Courses must include Chemistry 51, 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. This major must include Chemistry 64, 112, 120, 122, 130, 193, 194, 140, and 150. Calculus and Physics 68 or equivalent must also be included. 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.

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. Students who pass the Chemistry Placement Examination and successfully complete Chemistry 63 will be granted 8 credits toward graduation.

COURSES IN CHEMISTRY

*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 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.

*Credit for Chemistry 51 and 52 (or 43 and 44) may be earned through the College Level Examination Program (CLEP) subject examination in General Chemistry. Four hours in an advanced course in physics or mathematics may substitute for four hours in chemistry.
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, reactions, structure, and properties of carbon compounds. Prerequisite: Chemistry 52 or 63. Laboratory fee, $10.00.

80. **Instrumental Techniques for Scientists.** (Also offered as Electrical Engineering 80.) Sem. 2. 1+2, Cr. 2. The application of modern electronic principles is applied to the proper use of basic scientific instrumentation. Emphasis is placed upon laboratory experience. The philosophy underlying the use and limitations of instrumentation and single trouble shooting techniques are studied. Special topics include: Basic electronic circuit elements, operational amplifiers, power sources, logic devices, the use of an oscilloscope as a basic measuring tool, various meters, and recording apparatus. Prerequisites: Physics 67 or concurrent enrollment and sophomore standing. Laboratory fee, $10.00.

101 (201). **Elementary Physical Chemistry.** Sem. 1. 3+3, Cr. 4. A one-semester course in physical chemistry covering elementary thermodynamics and kinetics, together with their applications to various chemical systems. Prerequisites: Chemistry 64 and 71 or equivalent. Laboratory fee, $10.00. (Not open for credit to students who have taken Chemistry 111.)

105 (205). (Formerly 205.) **Biochemistry.** (Also offered as Biology 105-205.) Sem. 2. 4+0, Cr. 4. The chemistry of proteins, carbohydrates, fats, and nucleic acid, and the changes these undergo during processes of digestion and metabolism; stress on physical biochemistry topics and enzyme kinetics. Prerequisite: Chemistry 71 or equivalent.

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.

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

140 (240). (Formerly 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.

150 (250). (Formerly 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.

160. (Formerly 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. Prerequisite: Chemistry 112 or consent of the instructor.

191. **The Teaching of Physical Sciences.** 1+3, Cr. 2. (See Education 191.) A study of the methods of teaching 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. S/U grade.


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.
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 the restriction on page 100 does not apply to credits 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 100 "Restrictions on the Use of Credits").

MAJOR—A minimum of 30 credits in economics. Courses must include Economics 71, 72, 185, 186, and 187. Mathematics 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

*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 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. (Not offered after Spring Semester 1972-1973.)


*Credit for Economics 71 and 72 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Economics.

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 socioeconomic 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.

178 (278). (Formerly 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.

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.

186 (286). (Formerly 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.

187 (287). (Formerly 282.) **Intermediate Macroeconomic 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.

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 (289). (Formerly 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.

199. (Formerly 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.

*Credit for Economics 185 may be earned through the College Level Examination Program (CLEP) subject examination in Money and Banking.
THE DEPARTMENT OF EDUCATION

Associate Professor Kochendorfer (Chairman); Professors Hillila, Kroenke, Lange, Rubke, and Schwanholt; Associate Professors Koester, Speckhard, and Swihart; Assistant Professors Calloway, Lambert, Ruosch, 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 bachelor's 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 96.

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 94 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, history, political science, 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 124 credits required for graduation.

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

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<th>First Semester</th>
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<th>Second Semester</th>
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<td>English</td>
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<td>Religion</td>
<td>3</td>
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<td>Science</td>
<td>4</td>
<td>Fine Arts</td>
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<td>History</td>
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<td>Speech</td>
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<td>Social Science</td>
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<td>Physical Education</td>
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<td>Physical Education</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, history, political science, psychology, and sociology. (Since some states require all teachers to have a course in United States history, it is recommended that prospective teachers take at least one such course.)

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 156 Psychological Foundations of Secondary Education 4 credits
Ed 155 Principles and General Methods of Teaching in the Secondary Schools 4 credits
Ed 191 Special Methods 2 credits
Ed 157 Supervised Teaching in the Secondary-School Subjects 7 credits

Teaching Major and Teaching Minor Requirements
1. A teaching major (or 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.
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 bachelor's degree.

(2) communication skills—an applicant must have obtained a grade of C or better in the course Fundamentals of Speech 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 selected schools in Northwest Indiana.

**PLACEMENT**

The Teacher Placement Office gives assistance to beginning and experienced teacher candidates who have completed requirements for certification. All candidates must file their credentials with this office prior to graduation.
COURSES IN EDUCATION

NOTE: No student will be admitted to any courses beyond Education 96 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. 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. Field trip fee, $5.00.

96. (Formerly 101.) EDUCATIONAL PSYCHOLOGY. Cr. 3. This course applies the principles of psychology and the results of experimental research to the problems of teaching and learning. Prerequisite: Psychology 51. (Not open to majors or minors in education.)

115. (Formerly 150.) PRINCIPLES AND METHODS OF ELEMENTARY EDUCATION. Cr. 9. Study of the organization of instruction, classroom management, and skills of teaching in the elementary school. Includes principles, content, curriculum, methods, and techniques involved in teaching reading and science in the elementary school. Involves directed classroom observation and teaching in a micro setting. Normally taken in the junior year.

116. (Formerly 151.) PSYCHOLOGICAL FOUNDATIONS OF ELEMENTARY EDUCATION. Cr. 4. The course provides a basis in psychological research and theory to aid teachers in guiding the learning and development of children. Involves directed classroom observation. Prerequisites: junior standing and Psychology 51. (To be taken concurrently with Education 115.)

120. (Formerly 140.) KINDERGARTEN EDUCATION. Cr. 3. This course deals with the curriculum, the teaching techniques and the materials used in the nursery school and kindergarten. Special emphasis will be given to the education needs of the pre-school child.

121. (Formerly 174.) PHILOSOPHY OF EDUCATION. 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.

155. (Formerly 190.) PRINCIPLES AND GENERAL METHODS OF TEACHING IN THE SECONDARY SCHOOLS. Cr. 4. A study of the principles, methods, techniques, and materials involved in teaching in the secondary schools; a basic introductory course to teaching.

156. (Formerly 188.) PSYCHOLOGICAL FOUNDATIONS OF SECONDARY EDUCATION. Cr. 4. The course provides a basis in psychological research and theory to aid teachers in guiding the learning and development of adolescents. Involves directed classroom observation. This course is restricted to students enrolled in the Professional Semester in secondary education. Prerequisite: Psychology 51.

157. (Formerly 194.) SUPERVISED TEACHING IN THE SECONDARY-SCHOOL SUBJECTS. Cr. 7. Each student will be assigned to a secondary school for laboratory experiences, which will include at least 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. S/U grade. Fee, $65.00.

165. (Formerly 181.) ELEMENTARY METHODS AND TECHNIQUES OF TEACHING. Cr. 8. The student is expected to give full time for approximately eight weeks of the professional semester to a study of the development and organization of the elementary school; including principles, content, curriculum, 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.
167. (Formerly 192.) **SUPERVISED TEACHING IN THE ELEMENTARY GRADES.** Cr. 8. This course gives the student opportunities for observation, actual classroom teaching, and participation in related activities in elementary schools under the directions of the supervising teacher and the University supervisor. Students are expected to give full time to this course for approximately eight weeks of the semester. Prerequisite: senior standing. See special paragraph on Supervised Teaching under the general statement above for conditions of eligibility. Students enrolled in this course may not carry a maximum load of more than 17 credit hours. S/U grade. Fee, $65.00.

170 (270). (Formerly 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 (for undergraduates only): Education 165 and a basic course in the updated mathematics or consent of the chairman of the department.

171 (271). (Formerly 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. Prerequisite (for undergraduates only): Education 165.

172 (272). (Formerly 283.) **LANGUAGE ARTS IN THE ELEMENTARY SCHOOL.** 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. Prerequisite (for undergraduates only): Education 165.

173 (273). (Formerly 284.) **SOCIAL STUDIES IN THE ELEMENTARY SCHOOL.** 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. Prerequisite (for undergraduates only): Education 165.

175 (275). (Formerly 212.) **READING IN THE ELEMENTARY SCHOOL.** 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.

176 (276). (Formerly 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.

177 (277). (Formerly 210.) **THE ELEMENTARY SCHOOL CURRICULUM.** Cr. 3. A study of the composition of today's elementary curriculum, the factors which affect its development, the principles governing curriculum organization, and current curricular patterns.

180 (280). (Formerly 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.

182 (282). (Formerly 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.

185 (285). (Formerly 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 155 or the equivalent.
186 (286). (Formerly 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 182 or the equivalent.

188 (288). (Formerly 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.

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 Social Studies
- 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.

197. Advanced Supervised Teaching. Cr. 3. Four weeks of full-time student teaching are required. Enrollment in this course is restricted to students: (1) who have completed Education 157 or 167; or (2) who wish to extend their certification coverage. S/U grade. Fee, $35.00.

199 (299). Current Problems in Education. Cr. 1, 2, or 3. An intensive study of an area of education. Subtitles, amount of credit, and content will depend on instructor’s choice and student interest.

For Graduates Only

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 graduate only program. A weekly seminar extending over a period of one semester is included as a part of the course. (Not offered after 1972-1973.) Fee, $50.00.

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, curricular 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.

305. Philosophical Foundations of Education. Cr. 3. A course in educational thought designed to explore systems of thought with emphasis upon educational philosophical patterns, their implications for influence upon 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. Prerequisite: 15 hours in education or consent of the instructor.
320. HISTORICAL FOUNDATIONS OF EDUCATION. Cr. 3. The history of American education in its cultural framework. Special attention will be given the reform movements of the 20th Century.

323. RESEARCH IN READING. Cr. 3. A review of basic research in reading as applied to principles of learning, instructional processes, and curricular organization. Prerequisites: Education 276 or equivalent and a course in statistics or measurement.

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: Education 276 or equivalent.

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 Cunningham, Arlin Meyer, Prahf, and Wegman; Assistant Professors Feaster, Galow, Loeppert**, Sommer, and Webster; Mr. Knarr, Mr. Leep, Mr. Mercer, Miss Rothschild, and Mr. VanHof

MAJOR—A minimum of 22 credits in English in courses numbered 100 or above. Courses must include 100 or 131, 101, 102, 103 or 105, 104 or 106, 110, and one of the following: 120, 130, 151, 152.

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 English in courses numbered 100 or above constitutes a minor. Courses must include 100 or 131, one course in American literature, and one course in English literature.

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†

INTRODUCTORY COURSES: These courses are intended to satisfy the basic eight-hour requirement of the College of Arts and Sciences, and to prepare the student for more advanced work in literature. The normal sequence begins with English 5, then 25; it is recommended that these courses be completed as early as possible.

3. FUNDAMENTALS OF WRITING. Each sem. 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. S/U grade.

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. 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 3 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.

INTERMEDIATE COURSES:

57. PROFESSIONAL REPORT WRITING. Sem. 2. Cr. 3. A course in the principles and procedures of writing formal and informal business or technological reports. Instruction and practice in conducting library research, organizing and summarizing data, and presenting facts and ideas in effective English. Prerequisite: English 5.


†For courses given in Christ College, see page 216 of this Bulletin.
65. **STUDIES IN CONTEMPORARY LITERATURE.** Each sem. Cr. 3. A course embodying several topics and perspectives on recent American, British, and Continental literature. These will be subject to annual review and possible variation. Certain topics will be offered only in alternate semesters. Since the course presupposes some familiarity with literary terminology, it should be taken after English 25. English 65 is intended to satisfy the “Literature or Fine Arts” requirement of the general education section of the catalogue, but may be taken as an ordinary elective. Contemplated topics for the year 1972-1973 are: (1) The Minority Voice in Contemporary American Literature; (2) Southern Letters: 1929 to the Present; and (3) The American Novel since World War II. May be taken twice for credit.

**ADVANCED COURSES: NOTICE:** No student will be admitted to any of the following advanced courses unless he has completed English 25 and has received the permission of the chairman of the department. Courses labeled 200 and above are open to qualified graduate students.

100 (200). **METHODS OF LITERARY CRITICISM AND RESEARCH.** Sem. 2. Cr. 3. A study of the main schools of literary criticism and of the prevailing methods of scholarly research. Designed to prepare both graduate and undergraduate students for advanced work in English.

101. **AMERICAN LITERATURE.** Each sem. Cr. 3. A study of selected works of the chief American writers from the Colonial Period to the Civil War.

102. **AMERICAN LITERATURE.** Each sem. Cr. 3. A study of the selected works of the chief American writers from the Civil War to the present day.

103. (Formerly 51.) **MAJOR BRITISH WRITERS.** Each sem. Cr. 3. A study of selected works of the chief British writers from Beowulf to the end of the Classical Period.

104. (Formerly 52.) **MAJOR BRITISH WRITERS.** Each sem. Cr. 3. A study of selected works of the chief British writers from the beginning of the Romantic Movement to the present day.

105. (Formerly 55.) **MASTERPIECES OF WORLD LITERATURE.** Each sem. Cr. 3. A study of a limited number of the masterpieces of world literature from ancient times through the Renaissance.

106. (Formerly 56.) **MASTERPIECES OF WORLD LITERATURE.** Each sem. Cr. 3. A study of a limited number of the masterpieces of world literature from the middle of the seventeenth century to the present day.

109 (209). (Formerly 225.) **MIDDLE AGES.** Sem. 1. Cr. 3. A study of Chaucer and his contemporaries.

110 (210). (Formerly 210.) **SHAKESPEARE.** Each sem. Cr. 3. Close reading of representative plays.

120 (220). **RENAISSANCE STUDIES.** Sem. 2. Cr. 3. A course in significant works of a limited number of writers ranging from More to Milton, with attention to the intellectual, religious, and political backgrounds of the Renaissance.

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.

130 (230). (Formerly 205.) **RESTORATION AND EIGHTEENTH CENTURY STUDIES.** Sem. 1. Cr. 3. A study of the major writers and dominant literary types of the Restoration and eighteenth century.

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.

*All courses designated by asterisk (*) may vary in content and in writers assigned, depending upon the instructor and year given. Consult English Department Bulletin for specific information.*
142. Modern English Grammar. Each sem. Cr. 3. An introduction to the recent developments in grammar such as structural linguistics and transformational grammar.

143 (243). (Formerly 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.

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.

155. The Novel.* Sem. 1. Cr. 3. A study of representative English novels of the eighteenth and nineteenth centuries, with discussion of the social background.

160 (260). (Formerly 217.) Modern Drama.* Sem. 2. Cr. 3. A study of plays typical of the various phases of the development of British and American drama after 1870, with some attention to related Continental drama.

165. Topics in American Literature.* Sem. 2. Cr. 3. A study of a significant movement in American literature, such as Transcendentalism, Romanticism, Naturalism, and Realism, or a group of writers related regionally, ethnically, or in some other special way. May be taken twice for credit.

170 (270). (Formerly 218.) Modern Fiction.* Sem. 2. Cr. 3. A study of representative works of the most important British and American novelists of the twentieth century, with some attention to related Continental novelists.

175 (275). (Formerly 219.) Modern Poetry.* Sem. 1. Cr. 3. Consideration of some important forerunners of modern poetry, Continental as well as British and American; close study of important modern poets, chiefly British and American, from Yeats to the present.

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. 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.

190. 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 specifically designed to fulfill the General Studies requirement. Prerequisite: junior or senior standing.

*All courses designated by asterisk (*) may vary in content and in writers assigned, depending upon the instructor and year given. Consult English Department Bulletin for specific information.
187. **Seminar in English.** Each sem. Cr. 3. A 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. May be taken twice for credit.

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.

197. **Honors Work in English.** See bulletin, page . . for current regulations regarding honors work. For other types of independent reading and research, consult with the chairman of the Department of English.

*For Graduates only*

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.

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

309. **Theory and Practice of Expository Writing.** Cr. 3. Readings and lectures in the theory of exposition; practice in analyzing essays and in writing various forms of exposition; study of the principles of teaching expository writing.

310. **Studies in Nineteenth Century British Literature.** Cr. 3. A study of the major works of a limited group of writers related in some special way, such as adherence to a particular literary school or movement. May be taken twice for credit.

315. **Shakespeare and His Contemporaries.** Cr. 3. Shakespeare’s great tragedies are studied in the light of important non-dramatic literary works of the Renaissance.

320. **Studies in Nineteenth Century American Literature.** Sem. 1. Cr. 3. A study of several important American writers of the nineteenth century, selected on the basis of theme, genre, or relation to a particular literary movement or intellectual background. May be taken twice for credit.

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.

335. **Topics in Modern Literature.** Cr. 3. A careful examination of a significant theme, trend, movement or school of writers of the twentieth century. Emphasis is placed upon individual reading and reports. May be taken twice for credit.

**JOURNALISM**

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

**MINOR—A minor in journalism consists of 15 credit hours which must be earned in the following courses: English 71, 72, 73, 134; and one course selected from Art 61 or 131, or Speech 91, 92, or 153.**

*All courses designated by asterisk (*) may vary in content and in writers assigned, depending upon the instructor and year given. Consult English Department Bulletin for specific information.*
COURSES IN JOURNALISM

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 5.

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 to society and government. Examination of the canons of journalism. Discussion of the problems of libel, slander, and censorship. Prerequisite: English 5.

134. ADVANCED NEWS PRACTICE. Sem. 1. Cr. 3. A workshop for the advanced journalism student. Emphasis on interpretative and advanced reporting; opinion and editorial writing; advanced editing and publications design. Actual or finished publication a goal of the course. Prerequisite: English 71 or 72.
THE DEPARTMENT OF FOREIGN LANGUAGES

Professor Helms (Chairman); Professors Moulton, Must, and Reinke; Associate Professors Crumpacker, Falkenstein, and H. Peters; Assistant Professors S. Baepler, Brent, J. Peters, and Petersen; Mr. Cilo, Mr. Ewald, Mr. Jimenez, Mrs. Kaplan, Mr. Prouty, Miss Stephan*, Miss Timmel, Miss Toledo; Mr. Olsen, Director of Language Laboratory

The Department of Foreign Languages has the following objectives: to give the student in the lower division courses, numbered 10, 20, and 30, a sound grammatical foundation and to develop the ability to read moderately difficult prose and poetry. It also aims to provide the student with a basic speaking ability, aural comprehension and an introduction to a foreign culture.

Courses numbered 50 or 51 are designed for the Literature and Fine Arts requirement. Courses numbered 100 are designed for the General Studies requirement. All of these courses are taught in English.

In the upper division courses, numbered above 100, the objectives are to continue the work begun in the lower division courses, to study the literatures and civilizations of the languages offered and to prepare students for the teaching of foreign languages and for graduate studies.

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

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department and all students planning to teach French, German, Latin, or Spanish 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 8 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

10. FIRST SEMESTER FRENCH. Each sem. Cr. 4. A course designed to give the student the essentials of French. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in French.

15. **Refresher Course in First Semester French.** 7 weeks. Cr. 0. S/U grade. Laboratory fee, $5.00.

20. **Second Semester French.** Each sem. Cr. 4. A continuation of French 10. Prerequisite: French 10 or consent of the chairman of the department. Laboratory fee, $5.00.

25. **Refresher Course in Second Semester French.** 7 weeks. Cr. 0. S/U grade. Laboratory fee, $5.00. If course is passed satisfactorily, student will receive credit for French 20.

30. **Intermediate French.** Each sem. Cr. 4. A continuation of French 20 with emphasis on reading of literary texts. Prerequisite: French 20 or consent of the chairman of the department. Laboratory fee, $5.00.

35. **Refresher Course in Intermediate French.** 7 weeks. Cr. 0. S/U grade. If course is passed satisfactorily, student will receive credit for French 30.

50. (Formerly 55.) **Topics in French Literature.** Cr. 3. A course to meet the Literature and Fine Arts Requirement. Study of a selected form or aspect of French literature in English translation. No knowledge of French required. May not be counted toward a major or minor in French.

54. **Fourth Semester French.** Each sem. Cr. 3. A continuation of French 53, with readings from several centuries. Prerequisite: French 53 or consent of the chairman of the department. (Not offered after Fall Semester 1972-1973.)

100. **Studies in French Civilization.** Cr. 3. A course to meet the General Studies Requirement. Study of the arts, history, literature, music, and philosophy of selected periods or aspects of French civilization. Prerequisite: junior standing. No knowledge of French required. May not be counted toward a major or minor in French.

**Note:** French 30 is a prerequisite for all of the following courses:

110. (Formerly 111.) **French Composition and Conversation.** 7 weeks. Each sem. Cr. 2. Written composition with emphasis on the use of idioms. Conversation related to topics of current interest. Special attention to problems of individual students.

111. **French Composition and Conversation.** 7 weeks. Each sem. Cr. 2. A continuation of 110 with work of increased difficulty. Prerequisite: French 110.

112. **Advanced French Composition and Conversation.** Cr. 4. A course intended primarily for students who plan to teach French or to do graduate work in French. Writing, stylistics, and presentation of academic papers. Prerequisite: French 111.

113. (Formerly 103.) **French Phonetics.** 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.

115. (Formerly 152.) **French Civilization.** Cr. 3. Civilization of France from earliest times to the present.

120. (Formerly 105.) **French Literature of the Sixteenth Century.** 7 weeks. Cr. 2.

121. (Formerly 105.) **French Literature of the Seventeenth Century.** 7 weeks. Cr. 2.

122. (Formerly 106.) **French Literature of the Eighteenth Century.** 7 weeks. Cr. 2.

123. (Formerly 106.) **French Literature of the Nineteenth Century.** 7 weeks. Cr. 2.

125 (225). **Seminar in French Literature.** Each sem. Cr. 3-4. Intensive study of a French literary topic of a specialized nature. May be repeated provided there is no duplication of material. Prerequisite: consent of the chairman of the department.
190. **DIRECTED READING IN FRENCH.** Cr. 1-4. Intended for students capable of doing independent study in French language and literature. Prerequisite: consent of the chairman of the department.

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.

**GERMAN**

**MAJOR**—A minimum of 20 credits in German beyond German 30. Courses must include German 112 and 145. (For the plan of study option a student will be expected to take at least 24 credits in German beyond German 30.)

In addition all majors are strongly urged to attain a proficiency equivalent to German 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 German 30 constitutes a minor in German.

**THE WALTHER M. MILLER MEMORIAL PRIZE**—See page 46 for details.

**COURSES IN GERMAN**

10. **FIRST SEMESTER GERMAN.** Each sem. Cr. 4. A course designed to give the student the essentials of German. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in German.

15. **REFRESHER COURSE IN FIRST SEMESTER GERMAN.** 7 weeks. Gr. 0. S/U grade. Laboratory fee, $5.00.

20. **SECOND SEMESTER GERMAN.** Each sem. Cr. 4. A continuation of German 10 and reading of selected cultural and literary texts. Prerequisite: German 10 or consent of the chairman of the department. Laboratory fee, $5.00.

25. **REFRESHER COURSE IN SECOND SEMESTER GERMAN.** 7 weeks. Cr. 0. S/U grade. Laboratory fee, $5.00. If course is passed satisfactorily, student will receive credit for German 20.

30. **INTERMEDIATE GERMAN.** Each sem. Cr. 4. Reading and discussion of German literature on the intermediate level; review of German grammar. Prerequisite: German 20 or consent of the chairman of the department.

35. **REFRESHER COURSE IN INTERMEDIATE GERMAN.** 7 weeks. Cr. 0. S/U grade. If course is passed satisfactorily, student will receive credit for German 30.

50. **TOPICS IN GERMAN LITERATURE.** Cr. 3. A course to meet the Literature and Fine Arts Requirement. Study of a selected form or aspect of German literature in English translation. No knowledge of German required. May not be counted toward a major or minor in German.

54. **FOURTH SEMESTER GERMAN.** Cr. 3. A continuation of German 53. Prerequisite: German 53 or consent of the instructor. (Not offered after Fall Semester 1972-1973.)

100. **STUDIES IN GERMAN CIVILIZATION.** Cr. 3. A course to meet the General Studies Requirement. Study of the arts, history, literature, music, and philosophy of selected periods or aspects of German civilization. Prerequisite: junior standing. No knowledge of German required. May not be counted toward a major or minor in German.
NOTE: German 30 is a prerequisite for all of the following courses:

110. GERMAN COMPOSITION AND CONVERSATION. 7 weeks. Each sem. Cr. 2. Review of grammar; introduction to various types of written and oral German.

111. GERMAN COMPOSITION AND CONVERSATION. 7 weeks. Each sem. Cr. 2. A continuation of 110 with work of increased difficulty. Prerequisite: German 110.

112. ADVANCED GERMAN COMPOSITION AND CONVERSATION. Cr. 4. A course intended primarily for students who plan to teach German or to do graduate work in German. Writing, stylistics, and presentation of academic papers. Prerequisite: German 111.

118. (Formerly 108.) MASTERPIECES OF GERMAN LITERATURE. Each sem. Cr. 4. A systematic 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.

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 110 or 118.

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 110 or 118.

131. THE GERMAN DRAMA. 7 weeks. Cr. 2. Development of the German Drama from its beginning to modern times. Reading of representative plays of each period, lectures, and discussion. Prerequisite: German 110 or 118.

145 (245). (Formerly 200.) GERMAN CIVILIZATION. Cr. 3-4. An historical survey of the German cultural heritage in the fields of history, philosophy, religion, sociology, and the fine arts. Prerequisite: 14 credit hours of college German.

153. HISTORY OF GERMAN LITERATURE TO 1700. Cr. 4. Seminar: discussions, lectures, readings. Prerequisite: German 110 or 118.

154. EIGHTEENTH-CENTURY GERMAN LITERATURE (exclusive of Goethe and Schiller). 7 weeks. Cr. 2. Seminar: discussions, lectures, readings. Prerequisite: German 110 or 118.

155. GOETHE AND SCHILLER. Cr. 4. Class reading and discussion, lectures, independent reading, and class reports. Prerequisite: German 110 or 118.

156. NINETEENTH-CENTURY GERMAN LITERATURE. Cr. 4. Seminar: discussions, lectures, readings. Prerequisite: German 110 or 118.

158 (258). TWENTIETH-CENTURY GERMAN LITERATURE. Cr. 3-4. Prerequisite: German 110 or 118.

170. HISTORY OF THE GERMAN LANGUAGE. Cr. 4. A survey of the development of modern German from Proto-Germanic. Prerequisite: German 110 or 118.

190. DIRECTED READING IN GERMAN. Each sem. Cr. 1-4. Intended for students 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. Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.

THE CLASSICS

Major — A minimum of 16 credits in Greek and 12 credits in Latin beyond Latin 30.

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

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.

30. NEW TESTAMENT GREEK. Sem. 1. Cr. 4. Readings from the Gospels, Acts of the Apostles, and Letters of Saint Paul, with study of Koine philology and syntax. Prerequisite: Greek 20 or consent of instructor.

50. GREEK CLASSICS IN TRANSLATION. Cr. 3. A course to meet the Literature and Fine Arts Requirement. Greek literature from Homer through Aristotle. Lectures and readings. No knowledge of Greek required. May not be counted toward a major or minor in Greek.

51. CLASSICAL MYTHOLOGY. Cr. 3. A course to meet the Literature and Fine Arts Requirement. 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.

100. STUDIES IN GREEK CIVILIZATION. Cr. 3. A course to meet the General Studies Requirement. The cultural history of Greece from the Mycenaean Age through the Graeco-Roman Period, with emphasis on art and architecture. Slide lectures and discussions. No knowledge of Greek required. Prerequisite: junior standing. May not be counted toward a major or minor in Greek.

NOTE: Unless otherwise stated, the prerequisite for each of the following courses is Greek 30 or consent of the chairman of the department.

113. (Formerly 103.) PLATO. Sem. 1. Cr. 2-4. Reading of representative dialogues. Study of Plato as philosopher and of the personality of Socrates.

114. (Formerly 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.

115. (Formerly 105.) GREEK DRAMA. Sem. 1. Cr. 2-4. Selected plays of Aeschylus, Sophocles, and Euripides, with supplementary lectures on the Greek theatre.

116. (Formerly 106.) HELLENISTIC GREEK. Sem. 2. Cr. 2-4. Readings from the Greek Septuagint and subsequent Hellenistic literature.

190. DIRECTED READING IN GREEK. Either sem. Cr. 1-4. Intended for students capable of doing independent study in Greek language and literature. Scholarly paper required. Prerequisite: consent of the chairman of the department.
HEBREW
COURSES IN HEBREW

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

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.* Sem. 2. Cr. 4. A continuation of Latin 10, followed by study of easy selections from Latin prose authors. Prerequisite: Latin 10 or consent of instructor. Laboratory fee, $5.00.

30. *INTERMEDIATE LATIN.* Cr. 4. Introduction to Latin epic poetry; readings from the *Aeneid* of Vergil and the *Metamorphoses* of Ovid. Prerequisite: Latin 20 or consent of instructor.

50. *LATIN CLASSICS IN TRANSLATION.* Cr. 3. A course to meet the Literature and Fine Arts Requirement. Latin literature from its earliest Republican beginnings through the Silver Age of the Roman Empire. Lectures and readings. No knowledge of Latin required. May not be counted toward a major or minor in Latin.

51. *CLASSICAL DERIVATIVES.* Cr. 3. A course to meet the Literature and Fine Arts Requirement. Analysis of English vocabulary, including scientific terms, derived from Latin and Greek. No knowledge of Latin or Greek required. May not be counted toward a major or minor in Latin or Greek.

100. *STUDIES IN ROMAN CIVILIZATION.* Cr. 3. A course to meet the General Studies Requirement. The cultural history of Rome from its legendary period through the Age of Justinian, with emphasis on the Roman contribution to the classical heritage. Slide lectures and discussions. No knowledge of Latin required. Prerequisite: junior standing. May not be counted toward a major or minor in Latin.

**NOTE:** Unless otherwise stated, the prerequisite for each of the following courses is Latin 30 or consent of the chairman of the department:

115. (Formerly 105.) *ROMAN PHILOSOPHY.* Sem. 1. Cr. 2-4. Study of representative essays of Cicero and of selections from the *De Rerum Natura* of Lucretius.
116. (Formerly 106.) Latin Lyric and Elegiac 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.

117. (Formerly 107.) Roman Historians. Sem. 1. Cr. 2-4. Selections from the works of Nepos, Sallust, Livy, and Tacitus; study of Roman historiography.


140. (Formerly 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 students capable of doing independent study in Latin language and literature. Scholarly paper required. Prerequisite: consent of the chairman of the department.

191. The Teaching of Foreign Languages. Sem. 1. Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.

RUSSIAN

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

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

Courses in Russian

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.

50. Topics in Russian Literature. Cr. 3. A course to meet the Literature and Fine Arts Requirement. Study of a selected form or aspect of Russian literature in English translation. No knowledge of Russian required. May not be counted toward a minor in Russian.

100. Studies in Russian Civilization. Cr. 3. A course to meet the General Studies Requirement. Survey of major trends and influences in Russia and the Soviet Union. Prerequisite: junior standing. No knowledge of Russian required. May not be counted toward a minor in Russian.
111. (Formerly 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 30 or equivalent. Alternates with Russian 153.

112. (Formerly 114.) RUSSIAN COMPOSITION AND CONVERSATION. Sem. 2. Cr. 3. A continuation of Russian 111. Prerequisite: Russian 111 or equivalent. Alternates with Russian 154.

153. NINETEENTH-CENTURY RUSSIAN LITERATURE. Cr. 3. A study of nineteenth-century Russian literary trends through representative works of Pushkin, Lermontov, Gogol, Turgenev, and Dostoevsky. Prerequisite: Russian 30 or consent of instructor.

154. LATE RUSSIAN AND EARLY SOVIET LITERATURE. Cr. 3. A study of late nineteenth-century and early twentieth-century Russian and Soviet literary trends through representative works of Tolstoy, Chekhov, and Bunin, and of Gorky and Sholokhov. Prerequisite: Russian 30 or consent of instructor.

SPANISH

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

10. FIRST SEMESTER SPANISH. Each sem. Cr. 4. A course designed to give the student the essentials of Spanish. Laboratory fee, $5.00. Credit may not be counted for graduation by a student with more than one year of high school credit in Spanish.

15. REFRESHER COURSE IN FIRST SEMESTER SPANISH. 7 weeks. Cr. 0. S/U grade. Laboratory fee, $5.00.

20. SECOND SEMESTER SPANISH. Each sem. Cr. 4. A continuation of Spanish 10 in which the student will learn to read simple to intermediate works, to carry on a simple conversation, and to write a coherent paragraph. Prerequisite: Spanish 10 or consent of the chairman of the department. Laboratory fee, $5.00.

25. REFRESHER COURSE IN SECOND SEMESTER SPANISH. 7 weeks. Cr. 0. S/U grade. Laboratory fee, $5.00. If course is passed satisfactorily, student will receive credit for Spanish 20.

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 20 or consent of the chairman of the department.

35. REFRESHER COURSE IN INTERMEDIATE SPANISH. 7 weeks. Cr. 0. S/U grade. If course is passed satisfactorily, student will receive credit for Spanish 30.

50. TOPICS IN HISPANIC LITERATURE. Cr. 3. A course to meet the Literature and Fine Arts Requirement. Study of a selected form or aspect of Spanish literature in English translation. No knowledge of Spanish required. May not be counted toward a major or minor in Spanish.

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 consent of instructor. (Not offered after Fall Semester 1972-1973.)
100. **STUDIES IN HISPANIC CIVILIZATION.** Cr. 3. A course to meet the General Studies Requirement. Study of the arts, history, literature, music, and philosophy of selected periods or aspects of Hispanic civilization. Prerequisite: junior standing. No knowledge of Spanish required. May not be counted toward a major or minor in Spanish.

111. **SPANISH COMPOSITION AND CONVERSATION.** Each sem. Cr. 4. A perfection of speaking and writing skills in the Spanish language. Prerequisite: Spanish 30.

116. (Formerly 113.) **SPANISH FOR SOCIAL WORKERS.** Cr. 2. A course designed to deal with the Spanish language in situations encountered by social workers. Prerequisite: Spanish 111.

120. **SELECTED READINGS IN HISPANIC LITERATURE.** Each sem. Cr. 4. The reading and discussion of works of Hispanic literature representative of various literary genres, with emphasis on the techniques of literary criticism and the problems of analyzing literature in a second language. Prerequisite: Spanish 111.

130. **SPANISH CIVILIZATION.** Cr. 3-4. A course intended to further the student’s knowledge of the varied elements of Spanish history and culture. Lectures and individual oral participation in Spanish. Prerequisite: Spanish 111.

131. **SPANISH-AMERICAN CIVILIZATION.** Cr. 3-4. A course intended to further the student’s knowledge of the varied elements of Spanish-American culture. Lectures and individual participation in Spanish. Prerequisite: Spanish 111.

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.

**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.

164 (264). (Formerly 200.) **TOPICS IN CONTEMPORARY HISPANIC LITERATURE.** Cr. 2-4. Selected areas of study concerning individual genres, authors, movements, or aspects of contemporary Hispanic literature. May be repeated, see note above.

190. **DIRECTED READING IN SPANISH.** Cr. 1-4. Intended for students capable of doing independent study in Hispanic language, civilization, or literature. Research paper required. May be repeated, see note above.

191. **THE TEACHING OF FOREIGN LANGUAGES.** Cr. 2. (See French 191 and Education 191.) Prerequisite: admission to Supervised Teaching.
THE DEPARTMENT OF GEOGRAPHY

Professor Kallay (Chairman); Professors A. H. Meyer and Strietelmeier; Associate Professors Buls, Kiefer, Kowitz, and A. Rechlin; Miss Cummiskey

Valparaiso University, with more than 50,000 maps, is one of the map depositories of the Army Map Service and United States Geological Survey, from which the department currently receives and files thousands of country, regional, and topographic maps of all continents.

Geography courses in the department yield social science credit; courses 10, 20, and 30 give natural science credit.

Major—A minimum of 30 credits in geography. Courses must include 10, 20 or 30, 50, and 52, and at least one course numbered 150 or above.

Professional Major—A professional major is offered students who are contemplating graduate or professional work in geography. Students with a professional major must take at least 35 hours in the department. Also they are required to take 10, 30, 50, 52, and 154 and at least four of the following systematic or technical courses: 150, 152, 156, 160, 162, 164, 166, 168.

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, history, mathematics, political science, 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 10, 20 or 30, 50, and 52 must be included.

The Valparaiso University-Indiana University Northwest Geography and Geology Association (Major in Geology). See page 118 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)

10. (Formerly 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.

20. (Formerly 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 10. Laboratory fee, $10.00.

30. (Formerly 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

( Offering Social Science Credit)

50. (Formerly 51.) introductory Geography I. Each sem. Cr. 3-4. 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 all students.

52. introductional Geography II. Each sem. Cr. 3-4. 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. Open to all students.

60. (Formerly 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.

62. (Formerly 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 120 or 122. No prerequisite.

100. (Formerly 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 Anglo-America, 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.

120. (Formerly 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.

122. (Formerly 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.

124. (Formerly 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, political science, economics, or sociology.

126. The Geography of Contemporary World Issues. Cr. 3. A course designed to introduce the non-geographer to the methods of geographic thought through an examination in depth of selected current world problems. Its primary direction is cultural in approach, concentrating on economic and political
geography. May be used to fulfill the General Studies Requirement. Prerequisite: junior or senior standing. Not open to geography majors for credit toward their majors.

150. (Formerly 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.

152. (Formerly 193.) **URBAN AND REGIONAL PLANNING.** Cr. 3. A course treating 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.

154. (Formerly 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.

156. (Formerly 190.) **ENVIRONMENTAL DATA.** 0+6, 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. Laboratory fee, $10.00.

160. (Formerly 188.) **GEOGRAPHIC ANALYSIS.** Cr. 3. A course designed to teach the techniques of data collection and quantitative analysis. Prerequisite: 15 credit hours in geography.

162. (Formerly 196.) **SEMINAR IN CURRENT THEMES IN GEOGRAPHY.** Sem. 1 or 2. Cr. 2-3. This course is designed to examine current problems from the geographic point of view. A different theme will be selected each time the course is offered. Such topics as rural settlement patterns, ghetto, ethnic, or religious communities, pollution problems, diffusion studies and environmental perception will be considered. A student may repeat the course for credit as each new theme is investigated. The three credit course will extend throughout the full semester and the two credit course will extend through one-half semester. Prerequisites: junior and senior majors or permission of the instructor. Laboratory fee, $10.00.

164. (Formerly 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.

166. (Formerly 199.) **PRO-SEMINAR IN GEOGRAPHY.** Cr. 3. Readings, papers, and discussion on the development of geographic thought especially in the nineteenth and twentieth centuries; on basic techniques and concepts of the field, on the place of geography within thought and value systems; and on the contributions of major geographers, past and present, to the discipline and to the large world of thought. Prerequisite: senior major.
168. (Formerly 198.) INDEPENDENT STUDY. Cr. 2 or 3. Individual research on a topic in geography agreed upon by a student and a faculty member of his choice from within the departmental staff. Prerequisite: senior major. May involve field work.

170 (270). (Formerly 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.

172 (272). (Formerly 202.) ENVIRONICS. 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.

174 (274). (Formerly 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. Prerequisite: 10 credit hours in geography, or 6 hours in geography and 6 hours in history, political science, economics, or sociology, or consent of the chairman of the department.

176 (276). (Formerly 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." Prerequisite: 10 credit hours in geography or 6 hours in geography and 6 hours in history, political science, economics, or sociology, or consent of the chairman of the department.

178 (278). (Formerly 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 Only

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 aforesaid; 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 HISTORY
Professor Boyd (Chairman); Professors W. E. Bauer, Kautz, Krodel, and Starrt; Associate Professors Berg, Engelder, and Schaefer; Assistant Professor Kohlhoff; Mr. Piehl and Mr. Schoppa*

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 ability to read a foreign language, and, in the case of the modern languages, to gain sufficient oral ability to maintain a sustained conversation, as well as developing a basic writing ability, that they take a year of philosophy, and a considerable number of literature and fine arts electives.

For students whose field of interest lies in the Social Sciences, or who will be teaching on the secondary level, it is recommended that they take a variety of geography, political science, economics, sociology, and psychology electives, and either a semester of philosophy or a year of mathematics and/or statistics.

APPROVAL OF SCHEDULES—Students taking a major or minor in the department must have their schedules approved by the 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
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.


**Credit for History 1 and 2 may be earned through the College Level Examination Program (CLEP) subject examination in Western Civilization.

***Credit for History 30 and 31 may be earned through the College Level Examination Program (CLEP) subject examination in American History.
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.

105 (205). (Formerly 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.

106 (206). (Formerly 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.

110 (210). (Formerly 210.) **French Revolution and Napoleon.** Cr. 3. A study of the background, development, and significance of the French Revolution and Napoleonic Era.

115. (215). (Formerly 215.) **Modern Europe I 1870-1919.** Cr. 3. A study of Europe emphasizing themes of nationalism, political evolution, militarism, industrialism, and Western World predominance to the close of World War I.

116 (216). (Formerly 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.

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.

126. **Germany During the Sixteenth Century.** Cr. 3. A study of the political, social, economic, and religious movements in Germany during the age of the Reformation. REUTLINGEN CAMPUS ONLY.

**Studies in United States History**

Prerequisites: History 30 and 31 or consent of the chairman of the department.

130 (230). (Formerly 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.
131 (231). (Formerly 231.) **The Founding of the Nation 1763-1815.** Cr. 3. A study of the events leading to the American Revolution and the working out of new directions in the young United States.

132 (232). (Formerly 232.) **The Federal Union 1815-1860.** Cr. 3. A study of the major problems that beset the American people from the close of the War of 1812 to the eve of the Civil War.

133 (233). (Formerly 233.) **Civil War and Reconstruction.** Cr. 3. A study of the great watershed conflict in American history, with special emphasis on the problems of Black Americans.

134. **Modern America I 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.

135 (235). (Formerly 235.) **Modern America II 1929-**. Cr. 3. An intensive study of recent United States history from the great depression and New Deal of the 1930's to the present.

137. **History of the American City.** Cr. 3. A study of the growth, impact, and significance of the city in the development of the United States.

**Studies in Non-Western History**

Prerequisite: the appropriate general survey or consent of the chairman of the department.

150 (250). (Formerly 250.) **History of Mexico.** Cr. 3. A study of the struggle for political, economic, and cultural identity in America's southern neighbor.

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.
180. **Selected Readings in Historical Literature.** Cr. 2 or 3. An opportunity for majors and non-majors alike to read extensively under the guidance of a member of the department a number of significant works in the history of a given event or historical movement. Arrangements must be made at the beginning of the semester through the chairman, and limits will be imposed on the number of students any instructor may agree to sponsor. This course may *not* be used in partial fulfillment of the university's general education requirements.

184. **The Western Experience.** Cr. 3. An integrative course for non-majors on the junior-senior level designed to explore selected topics in the Western 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. May be used to fulfill the General Studies Requirement.

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. May be used to fulfill the General Studies Requirement.

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 Graduates Only*

325. **The Western Tradition I.** (Also offered as English 325.) Cr. 2. A study of some of the important aspects of the heritage that has come down to us from the ancient Greek, Roman, and Judeo-Christian cultures. This course will be devoted, for the most part, to a close reading of important selected texts.

326. **The Western Tradition II.** (Also offered as English 326.) Cr. 2. A study of some of the important aspects of the heritage that has come down to us from the Middle Ages, the Renaissance, and the Reformation. This course will be devoted, for the most part, to a close reading of important selected texts.

335. **Problems in European History.** Cr. 3. An intensive study of a significant period or movement in European history. Subtitles and content will depend upon instructor's choice and student interest. Normally, this course will require a major paper.

336. **Problems in United States History.** Cr. 3. An intensive study of a significant period or movement in American history. Subtitles and content will depend upon instructor's choice and student interest. Normally, this course will require a major paper.

340. **Stuart England.** Cr. 3. A concentration upon the religious, political, economic, and social problems of 17th century England, 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

Assistant Professor Shabowich (Chairman); Assistant Professors Anita Manning and McCullough; 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 1, 5, 7, 8, 11, 140, and 195. Also Psychology 515, Sociology 51, Chemistry 43 and 44, Biology 50, Speech 40, and 3 credits in Art must be taken.

A major in home economics is not permitted to use more than 12 credits in the College of Business Administration without the approval of 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 13 credits in home economics constitutes a minor. Home Economics 7 and 8 must be included. Students must also take Sociology 51.

Programs are designed to fit the needs of students interested in child development*, extension work, food services, interior decoration, journalism, merchandising**, or teaching. A program may also be combined with a minor in social work.

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

1. ORIENTATION. Sem. 1. 1+0, Cr. 0. A survey of opportunities in the field of home economics. S/U grade.

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.

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.

*A student interested in child development (pre-school education, family relations, etc.) may prepare himself by completing a program in collaboration with Merrill-Palmer Institute, Detroit (see page 117 for further details on the Merrill-Palmer Program). Such a student should enter this program not later than the second semester of his sophomore year.

**Students in the Home Economics-Merchandising Program will normally take 18 or more credits in the College of Business Administration with the approval of the chairman of the department. These students should consult with the chairman of the Department of Home Economics regarding their plans of study.
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. 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 CONSTRUCTION AND FLAT PATTERN DESIGN. 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 6 or admittance by special examination. Laboratory fee, $20.00. (Given upon sufficient demand.)

52. CUSTOM TAILORING. 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. (Concurrent with Physical Education 127.) A study of health concerns as they relate to the needs of the family. Offered as a short course.

102. INTERIOR DESIGN. Sem. 1. 3+0, Cr. 3. Application of the principles of art to the design of the home and its furnishings as demonstrated in historic and contemporary dwellings. Field 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.

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. May be taken to fulfill General Studies Requirement. Prerequisite: junior or senior standing.
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. Home Economics 162 and 164 must be taken concurrently.

164. DIET THERAPY. Sem. 2. Cr. 2. A study of the relationship between nutrition and specific diseases, and of the practical therapeutic aspects of special dietary programs. Prerequisites: Home Economics 45, Chemistry 44, and Biology 115. Home Economics 162 and 164 must be taken concurrently. Laboratory fee, $5.00.

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. 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.
THE COLLEGE OF ARTS AND SCIENCES

THE DEPARTMENT OF MATHEMATICS

Professor Sorenson (Chairman); Professors K. Carlson*, Foster, Hallerberg, and Mundt; Associate Professors Hughes, Lennes, and Sanford; Assistant Professors L. Carlson, Cezus, R. Deters, Krebs, Reynolds, and Wagenblast**

MAJOR—A minimum of 28 credits in mathematics. Courses must include 75, 76, 77, 104, 114, 177 or 184, 193, 194 or 196, and one additional course numbered above 100.

Mathematics majors who will not complete a second major in another department must, at the beginning of their junior year, submit for approval by the chairman of this department a detailed program for their field of concentration. This program should include at least 40 credits in mathematics and related fields and it must include at least one course which applies mathematics to a related field (e.g., Mathematics 163.)

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 31, 33, 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 21, 31, 33, 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.

COURSES IN MATHEMATICS

Note: A student may use 2 of the (seven week) courses 21, 31, 33 to satisfy 4 credits of the Natural Science and Mathematics Requirement in the College of Arts and Sciences. Other mathematics courses that may be counted toward the requirement are 36, 53, 54, 75, 76, and 161.

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. S/U grade.

21. **Introduction to Computing.** Each sem. Cr. 2. An introduction to the use of digital computers, including the programming of elementary applications using an algorithmic language such as FORTRAN. This course is not intended for students with previous programming experience. Prerequisite: proficiency in 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.

*36. **Intuitive Calculus.** Each sem. Cr. 4. This course is an intuitive treatment of the calculus for students not majoring in mathematics or the physical sciences. Topics include sequences, differential and integral calculus, and some applications. Prerequisite: Mathematics 33 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. S/U grade.

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. Offered for the last time in Fall Semester 1972-1973.

**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 illustrations 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.

*Credit for Mathematics 36 (or 75) may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Calculus.

**Credit for Mathematics 54 may be earned through the College Level Examination Program (CLEP) subject examination in Statistics.
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; an introduction to FORTRAN programming and the use of the computer in the study of calculus, 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 the theory of the integral; techniques of integration; exponential, logarithm and inverse trigonometric functions; polynomial approximations to functions; and topics from analytic geometry. 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.

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. (Not offered after Spring Semester 1972-1973.)

104. **Linear Algebra and Differential Equations.** Each sem. Cr. 4. Topics include: matrices, determinants, and vector spaces; linear transformations; elementary and linear 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; elements of vector analysis. Prerequisite: Mathematics 104.

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.

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. Prerequisites: Mathematics 114 and 105. (Offered on sufficient demand.)

125. **Computer Organization and Programming.** Each sem. Cr. 3. Fundamentals of the structure and organization of digital computers and the use of programming systems, especially assembly language programming. Prerequisites: Mathematics 21 or the equivalent programming experience and consent of the instructor. Laboratory fee, $10.00. This course may not be counted toward a minimum major or a minor in Mathematics.

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.

*Credit for Mathematics 75 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Calculus.*
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. 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.** Each sem. Cr. 3 or 4. (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: Markov chains, linear and dynamic programming, queuing theory, learning models, population models, and simulation. Prerequisites: Mathematics 31, 33, 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. Not offered in 1972-1973.)


178. **Analysis II.** Sem. 2. Cr. 3. A continuation of Mathematics 177. Elements of functional analysis; measure and integration. Prerequisite: Mathematics 177 and 105. (Offered on sufficient demand.)

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 104.

184. **Applied Mathematics.** Sem. 2. Cr. 4. Fourier series and 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.

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 104. (Given in alternate years. Not offered in 1972-1973.)

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 consent. (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. MATHEMATICS COLLOQUIUM. Each sem. Cr. O. Students are required to attend the sessions of Mathematics 194 and participate in the discussion of topics presented by faculty and students. Prerequisites: junior standing and Mathematics 104. S/U grade.

194. MATHEMATICS COLLOQUIUM. Each sem. Cr. 1. Student presentation of selected topics in mathematics arising from journal reading and research in special problems. Prerequisite: Mathematics 193.

195. READINGS IN MATHEMATICS. Each sem. Cr. 1-3. Students study advanced topics in mathematics under the supervision of a faculty member. Written work is required. Prerequisite: consent of the 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 Graduates Only

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 nonmetric 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, Hoeltty-Nickel, Powell, and Wienhorst; Associate Professors Eifrig*, Kroe ger, 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 86 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.

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 174.

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 176. 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).
requirements for the degree of Bachelor of Music

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 (Course 20 or 30)</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>
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<tr>
<td>Physical Education</td>
<td>2</td>
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<td>Natural Sciences and Mathematics</td>
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</tr>
<tr>
<td>General Studies</td>
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<td><strong>Total</strong></td>
<td>43</td>
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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 113</td>
<td>2</td>
</tr>
<tr>
<td>Music Theory 135, 136</td>
<td>6</td>
</tr>
<tr>
<td>Ensemble</td>
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</tr>
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<td><strong>Total</strong></td>
<td>44</td>
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2. Other Requirements:

<table>
<thead>
<tr>
<th>Program</th>
<th>Church Music</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal Instrument:</td>
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<tr>
<td>Choral Conducting 114</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Hymnology 171</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>History of Church Music 174</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Service Playing 115</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Improvisation 141, 142</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>
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<tr>
<td>Instrumental classes</td>
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<td><strong>Total</strong></td>
<td>134</td>
<td>134</td>
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</table>

*To include Class Piano 9, 10, 11, 12.
<table>
<thead>
<tr>
<th>Program:</th>
<th>Applied Music</th>
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<tbody>
<tr>
<td>Principal Instrument:</td>
<td>Orchestral Instrument</td>
</tr>
<tr>
<td>Choral Conducting 114</td>
<td>—</td>
</tr>
<tr>
<td>Language Diction 110, 111</td>
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</tr>
<tr>
<td>Pro-Seminar in Pedagogy of Music 123</td>
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</tr>
<tr>
<td>Piano* (or harpsichord)</td>
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</tr>
<tr>
<td>Organ (or harpsichord)</td>
<td>24</td>
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<tr>
<td>Voice (may include Voice Class 39)</td>
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<tr>
<td>Principal orchestral instrument</td>
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<tr>
<td>C. Electives</td>
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</tr>
<tr>
<td>Total required for graduation</td>
<td>128</td>
</tr>
</tbody>
</table>

*To include Class Piano 9, 10, 11, 12.*
A. GENERAL EDUCATION REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion</td>
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<tr>
<td>Freshman English</td>
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</tr>
<tr>
<td>Literary Studies</td>
<td>4</td>
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<tr>
<td>Speech</td>
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<td>Survey of Music Literature 7, 8</td>
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<tr>
<td>History</td>
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<td>Natural Science</td>
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<tr>
<td>Physical Education</td>
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</table>

*A General Studies course must be included in the Social Science or Natural Science Category.

B. PROFESSIONAL EDUCATION REQUIREMENTS:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Principles and General Methods of Teaching in the Secondary Schools 155</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Education 62</td>
<td>3</td>
</tr>
<tr>
<td>Psychological Foundations of Secondary Education 156</td>
<td>4</td>
</tr>
<tr>
<td>High School Music Methods 191</td>
<td>2</td>
</tr>
<tr>
<td>Supervised Teaching 157</td>
<td>7</td>
</tr>
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</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 113 | 2
   - Ensemble | 8

2. Other Requirements:

<table>
<thead>
<tr>
<th>Principal Instrument:</th>
<th>Voice</th>
<th>Piano</th>
<th>Organ</th>
<th>String, Wind, or Percussion</th>
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</thead>
<tbody>
<tr>
<td>Choral Conducting 114</td>
<td>2</td>
<td>2</td>
<td>2</td>
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</tr>
<tr>
<td>Inst. Conducting 125</td>
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<td>Orchestration 112</td>
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<tr>
<td>Elementary School</td>
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<td></td>
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</tr>
<tr>
<td>Music Methods 109</td>
<td>2</td>
<td>2</td>
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</tr>
<tr>
<td>Class Piano, 9, 10, 11, 12</td>
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<tr>
<td>Piano 100</td>
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<td></td>
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<tr>
<td>Organ 100</td>
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<tr>
<td>Voice (to include Voice Class 39)</td>
<td>12</td>
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<td>Principal instrument (string, wind, or percussion)</td>
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<tr>
<td>Secondary instruments</td>
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<tr>
<td>(including at least two instrumental classes)</td>
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<tr>
<td>Applied music elective (not in principal instrument)</td>
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Total for graduation: 134 134 134 134
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<thead>
<tr>
<th>Area Major</th>
<th>Voice</th>
<th>Piano</th>
<th>Organ</th>
<th>Instrumental</th>
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<tr>
<td>Principal Instrument:</td>
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<tr>
<td>Choral Conducting 114</td>
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<tr>
<td>Inst. Conducting 125</td>
<td>— or</td>
<td>2 or</td>
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<td>2</td>
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<tr>
<td>Orchestration 112</td>
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<td>2</td>
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<tr>
<td>Elementary School</td>
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</tr>
<tr>
<td>Music Methods 109</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Class Piano, 9, 10, 11, 12</td>
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<td>4</td>
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</tr>
<tr>
<td>Piano 100</td>
<td>—</td>
<td>8</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Organ 100</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>—</td>
</tr>
<tr>
<td>Voice (to include</td>
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<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Voice Class 39)</td>
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<td></td>
</tr>
<tr>
<td>Principal instrument (string, wind, or percussion)</td>
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<td>—</td>
<td>12</td>
</tr>
<tr>
<td>Secondary instruments</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>(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>2</td>
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<tr>
<td>Total for graduation</td>
<td>138</td>
<td>138</td>
<td>138</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. This course may be used to fulfill the general education requirement in the fine arts.

7. SURVEY OF MUSIC LITERATURE. Sem. 1. Cr. 2. An introduction to the literature of music. Examples demonstrating various forms and styles are heard and discussed.


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. (Given in alternate years. Not offered in 1972-1973.)

110. (Formerly 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 1972-1973).

111. (Formerly 184.) LANGUAGE DICTION. Sem 2. Cr. 1. A continuation of Music 110. Prerequisite: Music 110. (Given in alternate years. Not offered in 1972-1973.)

112. (Formerly 162.) ORCHESTRATION. Sem. 1. Cr. 2. The technique of scoring for orchestra and band. Prerequisite: Music 64. (Offered in 1972-1973 and in alternate years thereafter.)

113. (Formerly 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.

115. (Formerly 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.

120. (Formerly 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. This course may be used to fulfill the general studies requirement. It is not open to music majors or minors. Prerequisite: junior or senior standing.

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.

121 (221). (Formerly 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.

123 (223). (Formerly 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 1972-1973 and in alternate years thereafter.)

125 (225). (Formerly 205.) INSTRUMENTAL CONDUCTING. Sem. 2. Cr. 2. A study of instrumental scores, conducting techniques, and materials. Prerequisite: Music 113.

127 (227). (Formerly 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 114 or the equivalent.

128 (228). (Formerly 208.) ADVANCED CHORAL CONDUCTING. Sem. 2. Cr. 2. A continuation of Music 127. Prerequisite: Music 127.

135 (235). (Formerly 235.) MUSIC THEORY. Sem. 1. Cr. 3. A continuation of Music 64 with special emphasis on nonbaroque contrapuntal techniques. Prerequisite: Music 64 or the equivalent.

136. (236.) MUSIC THEORY. Sem. 2. Cr. 3. A continuation of Music 135 with special emphasis on contemporary techniques. Prerequisite: Music 135 or consent of the chairman of the department.

141 (241.) ADVANCED KEYBOARD HARMONY AND IMPROVISATION. Sem. 1. Cr. 2. Practical keyboard work including harmonization of melodies, realization of figured basses, transposition, modulation, and improvisation. Open only to organ and piano majors with at least junior standing.

142 (242). (Formerly 242.) ADVANCED KEYBOARD HARMONY AND IMPROVISATION. Sem. 2. Cr. 2. A continuation of Music 141. Prerequisite: Music 141.

171 (271.). HYMNODY. 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.

174 (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 Only

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.

Applied 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.

A. Private Instruction

One-half hour per week of private instruction plus three hours of practice per week for a period of one semester gives one semester hour of credit. One-half hour per week of private instruction plus six hours of practice per week for a period of one semester gives two semester hours of credit. Forty-five minutes of private instruction and nine hours of practice per week gives three semester hours of credit.

For Undergraduates

100. Each sem. Cr. 1-3. Open to all students in the University, including the Evening Division. Beginning students in any medium should usually register for only one credit. Registration for three credits is available only to candidates in the Bachelor of Music program in their principal applied music medium.

Primarily for Graduates

200. Each sem. Cr. 1-2. Open to qualified graduate students who have good reason to include such study in their program. Prerequisite: approval of the chairman of the department.

For Graduates

300. Each sem. Cr. 2-3. Open only to graduate students holding a Bachelor of Music degree with a major in the given instrument or having the equivalent level of performing ability. Admission by audition only and with the approval of the chairman of the department.

Voice
Piano
Harpischord (by audition only)
Organ (by audition only)
Violin
Viola
Violoncello
Contrabass
Guitar
Flute
Oboe
Clarinet
Bassoon
Saxophone
Trumpet
French horn
Trombone
Baritone horn
Tuba
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. 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.
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.

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.

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.

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 student's 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. Leigh Smith

MAJOR—A minimum of 27 credits in philosophy. Courses must include Philosophy 3, 51, 53, and 127.

Majors who are preparing to study philosophy in graduate school are advised to complete a minimum of 36 hours in philosophy. Courses should include, in addition to 3, 51, 53, and 127, the following: 110, 121, 123, 129, 146, and either 142 or 144.

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.

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.

PREREQUISITE: Philosophy 1, 2, 3, 10, 51 and 53 have no prerequisites. All courses numbered over 100 have, as prerequisite, any one of the courses numbered under 100. The department urges that students use Philosophy 3, if possible, as the prerequisite to 100-level courses.

COURSES IN PHILOSOPHY†

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.

2. PHILOSOPHICAL PROBLEMS. Cr. 3. A general introduction to philosophy through readings selected to illustrate a variety of philosophical topics and problems. Attention will be given to analyzing philosophical arguments.

3. LOGIC. Each sem. Cr. 3. An introduction to formal logic in which truth-functional logic and elementary quantification theory are the primary topics. The traditional logic of the syllogism will be studied as one part of contemporary logic. Some consideration will be given to the application of logic in the formal analysis of arguments.

10. TYPES OF ETHICAL THEORY. Cr. 3. An analysis and assessment of the major ethical theories, both classical and modern, and their application to moral problems. In addition, the course will include a short introduction to contemporary metaethical problems.

51. HISTORY OF PHILOSOPHY I. Sem. 1. Cr. 4. An introduction to some themes in the great philosophies of the Western World from the Greeks to William of Ockham. At least one hour a week will be devoted to small group discussion of some major documents of the period. Primary documents will be read throughout.

53. HISTORY OF PHILOSOPHY II. Sem. 2. Cr. 4. An introduction to some themes in the great philosophies of the Western World from Hobbes up to, but not including, the 20th century. At least one hour a week will be devoted to small group discussion of some major documents of the period. Primary documents will be read throughout.

†For course given in Christ College, see page 216 of this Bulletin.
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 philosophical analysis of some of the beliefs, concepts, and problems involved in one or more of the major religious traditions.

114. PHILOSOPHY OF HISTORY. Cr. 3. A philosophical approach to history as a branch of knowledge through an analysis of representative theories of historical processes and a critique of their interpretation.

121. METAPHYSICS. Cr. 3. An examination of traditional and contemporary metaphysical topics, such as ontology, appearance and reality, persons, the mind-body problem, the analytic-synthetic distinction, the private-language problem.

123. CONTEMPORARY ETHICS. Cr. 3. A study of 20th century British and American ethical and meta-ethical 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 skepticism, perception, memory, belief, and truth.

129. SYMBOLIC LOGIC. Cr. 3. A study of quantification-theory, including the concepts of proof, consistency, and completeness, and topics in logical theory. (Note: Philosophy 3, or its equivalent, will be presupposed.)

140. NON-WESTERN PHILOSOPHY. Cr. 3. An introduction to some themes in the great philosophies of the non-Western world. A major part of the semester will be devoted to an analysis of important documents.

142. PHENOMENOLOGY. Cr. 3. An examination of some of the major works of 20th century German and French phenomenologists and their approach to philosophical problems.

144. EXISTENTIALISM. Cr. 3. An examination of some of the major works of 19th and 20th century existentialists and their approach to philosophical problems.

146. ANALYTIC PHILOSOPHY. Cr. 3. An examination of some of the works of representative 20th century British and American "analytic philosophers" and their approach to philosophical problems.

190. PHILOSOPHICAL TOPICS. Cr. 3. An examination of the works of one major philosopher, such as Kant or Wittgenstein; or of a single philosophical problem-area such as scientific explanation or free action; or of a single philosophical approach such as Positivism or Pragmatism.

193. INDEPENDENT PROJECTS. Cr. 1, 2, or 3. Students may undertake independent study of some man, problem, theme, etc., under the supervision of some member of the philosophy department.
THE DEPARTMENT OF PHYSICAL EDUCATION

Assistant Professor Koch (Chairman, Men's Division); Professors E. G. Bauer and Koenig; Associate Professor Krause; Assistant Professors Amundsen, Canfield, Colyer, and Weiss; Mr. Winrow; Part-time Assistant Professor Purden

Professor Brown (Chairman, Women's Division); Assistant Professors E. V. Bauer and Betts; 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. Courses 1 and 3 (Women) must be taken by all women physical education majors. Courses 2, 3, 4, and 5 (Men) must be taken by all men physical education majors. They must also be class assistants in any two of the aforementioned four classes.

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 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

NOTE: Two credit hours in physical education earned in courses numbered below 10 are required 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 (except for students majoring in physical education). Courses 1 and 3 (Women) must be taken by all women students.

BEGINNING COURSES FOR MEN

1. PHYSICAL DEVELOPMENT. Each sem. 0+2, Cr. 1. S/U grade optional.
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

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. S/U grade optional.

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. S/U grade optional.

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. S/U grade optional.

4. **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.

40. **THE STRUCTURE AND FUNCTION OF MOVEMENT.** Each sem. 2+2, Cr. 3. A study of the structure and function of the body—how it affects and is affected by movement.

41. **THE BODY AND STRESS.** Each sem. 2+2, Cr. 3. A study of the effects of stress and injury on the body and the significance of body function in relation to stress.

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.** (Concurrent with Home Economics 101.) 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.

50. **THE PHYSIOLOGICAL-STRUCTURAL NATURE OF MAN**

50. **PSYCHOLOGICAL-SOCIOLOGICAL NATURE OF MAN**

50. **ACTION AND SOCIETY.** Each sem. Cr. 1. This course will be presented in four one-credit seminars: Historical Foundations of Activity; Structure and Administration of Activity; Philosophical and Historical Implications of Activity; Psychological and Sociological Implications of Activity. These courses will be offered as short courses.

51. **PSYCHOLOGY OF ACTION.** Sem. 1. Cr. 3. The effects of the action nature of man on his development, learning and behavior.

52. **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.

53. **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.

54. **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. A study of factors affecting the physical, social, mental, and emotional development of young children in the home. Fundamental principles in the care and guidance of children. An observation of a pre-school child in a family situation is assigned for two hours per week and a field trip is made to the Nursery School, The University of Chicago. Prerequisite: 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 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. Course fee, $5.00.

118. **Psychology of Childhood.** (Also offered as Psychology 177.) 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**

51. (Formerly 51, 52, 53, 54.) **Individual and Team Activities.** Each sem. Cr. 1. This course will be presented in four one-hour courses. No more than four credits of this course may be presented for graduation.

55. **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. **Gymnastics.** Sem. 2. 1+1, Cr. 1.

59. **Independent Study.** Each sem. Cr. 1.


61. **Officiating in Women's Sports.** Sem. 2. Cr. 2. Officiating procedures in volleyball, gymnastics, softball.

63. **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. **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. **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 intramural and extramural activities: cheerleading, coaching, intramurals, drill squads, swim clubs, etc.

69. **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.
93. PRINCIPLES AND PRACTICES OF BASEBALL COACHING. (Men.) Sem. 2. Cr. 2. History, rules, fundamentals, and strategy. Lectures, reports, discussions, and practice.
94. PRINCIPLES AND PRACTICES OF TRACK AND FIELD COACHING. (Men.) Sem. 2. Cr. 2. History, rules, fundamentals, and strategy. Lectures, reports, discussions, and practice.
95. PRINCIPLES AND PRACTICES OF BASKETBALL COACHING. (Men.) Sem. 1. Cr. 2. Analysis of the strengths and weaknesses of widely used offensive and defensive systems; fundamentals, strategy, and coaching problems included.
98. PRINCIPLES AND PRACTICES OF FOOTBALL COACHING. (Men) Sem. 2. Cr. 2. Analysis of the strengths and weaknesses of widely used offensive and defensive systems; fundamentals, scouting, and use of motion pictures included.
99. 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 1972-1973 but will be phased out of the curriculum as soon as possible.

130. 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. 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. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS. Sem. 1. Cr. 2. A study of the organization and administration of curricular and extracurricular programs of physical education and athletics.
133. 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 Armin Manning (Chairman); Professor Shirer; Associate Professor Naumann; Assistant Professor Scheiderer

MAJOR—A minimum of 28 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, 183, 187, 188, 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 and Physics 111 must be included.

APPROVAL OF SCHEDULES—All students taking a major or minor in this department and all students planning to teach physics must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN PHYSICS

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 equivalent. 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. **Descriptive Astronomy I.** 2+0, Cr. 2. A study of the principles of astronomical observation, the tools and methods employed by the modern astronomer to gain information and knowledge concerning the solar system. Lecture time will occasionally be used for observation of the planets and predominant constellations. Only elementary mathematics is required. This course, together with Physics 82, may be used to fulfill natural science general education requirements.

82. **Descriptive Astronomy II.** 2+0, Cr. 2. A continuation of Physics 81. A study of the stellar system in general. Stellar classification; the content and evolution of stars, galaxies, and the universe. Some emphasis will be placed on the methods used to obtain information necessary to construct a model universe. As in Physics 81, lecture time will occasionally be replaced by observation. Only elementary mathematics is required. Physics 81-82 may be used to fulfill natural science general education requirements.

83. **Observational Astronomy.** Each sem. 0+3, Cr. 1. Practical experience in the application of photographic and photometric techniques to astronomical problems, stellar magnitudes, spectral classification, variable stars and satellites. 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. **Optics.** Sem. 1. 3+0, Cr. 3. A study of electromagnetic radiation, with emphasis on interference, diffraction, dispersion, polarization, absorption, and scattering. Prerequisite: Physics 73.

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. Prerequisite: Physics 68.

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.
183 (283). (Formerly 207.) **INTRODUCTION TO QUANTUM MECHANICS I.** 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. Prerequisite: Physics 110 or consent of the chairman of the department.

184 (284). (Formerly 208.) **INTRODUCTION TO QUANTUM MECHANICS II.** Each sem. 3+0, Cr. 3. A continuation of 183 (283). Prerequisite: Physics 183.

187 (287). (Formerly 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 104.

188 (288). (Formerly 211.) **THEORETICAL PHYSICS.** Sem. 2. 2+0, Cr. 2. A continuation of Physics 187 including wave motions, Maxwell's equations, and boundary value problems. Prerequisite: Physics 187.

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. **SPECIAL PROBLEMS IN PHYSICS.** Each sem. Cr. 1-2. 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.
THE DEPARTMENT OF POLITICAL SCIENCE

Associate Professor Trost (Chairman); Professors Huegli, Mundinger, and Wehling; Associate Professor Balkema; Mr. Combs and Mr. Krueckenberg

MAJOR—A minimum of 30 credits in political science. Courses must include Political Science 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 political science constitutes a minor. Political Science 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 116. For information concerning the Urban Affairs Semester Program see page 116. For information concerning the Semester on the United Nations see page 117.

COURSES IN POLITICAL SCIENCE

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. 4. A study of the structure and function of the federal system, with emphasis on the national government. (Recommended for General Education Requirement.)

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 political science.)

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.

66. INTERNATIONAL RELATIONS II. Sem. 2. Cr. 3. A continuation of Political Science 65. Prerequisite: Political Science 65.

Credit for Political Science 2 may be earned through the College Level Examination Program (CLEP) subject examination in American Government.
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: Political Science 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: Political Science 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: Political Science 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: Political Science 44 or consent of the chairman of the department.

155 (255). (Formerly 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: Political Science 41 or consent of the chairman of the department.

156 (256). (Formerly 205.) PROBLEMS IN AMERICAN POLITICS. Either sem. Cr. 3. An intensive study of topics in the process, policies, and functions of the American political system. (e.g., Political Parties). Prerequisite: Political Science 2 or consent of the chairman of the department.

158. PROBLEMS IN POLITICAL PHILOSOPHY. Each sem. Cr. 3. The study of one or more specific problems or philosophers in modern political philosophy. Prerequisites: Political Science 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: Political Science 2 and junior standing.

163 (263). (Formerly 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: Political Science 2 or consent of the chairman of the department

164 (264). (Formerly 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.)

165 (265). (Formerly 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.)

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 political science.)

193. GENERAL STUDIES IN POLITICAL SCIENCE. Each sem. Cr. 3. Topics to be considered will come primarily from policy areas in political science and interdisciplinary offerings (e.g., The Political Novel). May be used to fulfill the General Studies Requirement.

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.
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199. RESEARCH IN POLITICAL SCIENCE. Each sem. Cr. 3. 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.

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.

For Graduates Only

209. BASIC POLITICAL ISSUES. Each sem. Cr. 3. A course devoted to detailed examination and consideration from many angles of a specific fundamental political problem. Copious required readings. Discussions conducted by members of the class.

320. READINGS AND RESEARCH IN POLITICAL SCIENCE. Each sem. Cr. 3. In consultation with a faculty member, the student selects a program of readings and/or a research project in his area of interest.
THE DEPARTMENT OF PSYCHOLOGY

Professor Waldschmidt (Chairman); Associate Professors Berry, Harris, and Karvellas; Assistant Professors Ikeda and Millar; Miss Ryan

MAJOR—A minimum of 27 credits in psychology. Courses must include Psychology 51S or 51N, 131 or 173, 132, 150, and two of the following laboratory courses: 135, 136, 137, or 154. For the Bachelor of Science degree, courses must include Psychology 51N, 131, 132, 150, and two of the following laboratory courses: 135, 136, or 137.

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

A minimum of 18 credits in psychology constitutes a minor. Courses 51S or 51N, and 131 or 173 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

*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.

*Credit for Psychology 51S may be earned through the College Level Examination Program (CLEP) subject examination in General Psychology.
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 173, 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 173. Laboratory fee, $10.00.

137. 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 173.

154. 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 173. 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. May be used to fulfill the general studies requirement. Prerequisite: 6 hours of psychology or consent of the chairman of the department.

173 (273). (Formerly 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.)

177 (277). (Formerly 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.

180 (280). (Formerly 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 177 or Psychology 126 or Physical Education 117 or Physical Education 118 or Education 116 or Social Work 162.

185 (285). BEHAVIOR MODIFICATION. Sem. 1. Cr. 3. An experimental analysis of human behavior, with emphasis upon (1) the principles of various behavior modification techniques, (2) application of these principles to personality development, (3) methods used in recent research, and (4) application of behavior modification to the classroom. Prerequisite: 6 hours of psychology.
190. (290.) 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.

193. 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. 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. This course may be repeated for credit. Maximum: 6 credit hours.

For Graduates Only

301. (Formerly 215.) LEARNING AND MOTIVATION. 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 or educational psychology.

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, 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.

All full-time faculty members of the Department of Social Work hold the A.C.S.W. credential, as do the vast majority of part-time faculty and field instructors. Indeed, the region of Northwest Indiana provides a rich resource in trained social workers to enrich the classroom experience and the field instruction program.

**Major**—A minimum of 24 credits in social work. Courses must include Social Work 107, 108, 150, 160, 162, 163, and 164.

Also required are Psychology 51, Sociology 1 and 51, one course in political science, and one of the following courses: Economics 71 or 72, Geography 62, or Home Economics 115. Biology is recommended in meeting the general education requirement.

For majors planning to enter a graduate program in social work, an introductory course in statistics is recommended. Although a minor is not required, psychology is recommended as a minor or as one of the areas of related concentration.

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.

A minimum of 16 credits in social work constitutes a minor. Social Work 107, 108, 150, 160, and 162 must be included.

**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.
### First Semester Credits: 124

#### Course in Social Work

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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. Course 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. Course fee, $5.00.

*Economics 71 or 72, Geography 62, or Home Economics 115."
150. **INTRODUCTION TO SOCIAL GROUP WORK.** Each sem. 3+4, 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.) Course fee, $10.00.

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. Course fee, $5.00.

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. Course fee, $5.00.

163. **SOCIAL SERVICES TO INDIVIDUALS.** Sem. 1. 2+8, 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. Course fee, $10.00.

164. **SOCIAL SERVICES TO INDIVIDUALS.** Sem. 2. 2+8, 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. Course fee, $10.00

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 Jeff Johnson; Associate Professor Martinson; Assistant Professors Beckley and Sed-erberg; Miss Brocki

MAJOR—A minimum of 29 credits in sociology. Courses must include Sociology 1, 101, 102, 195, 196. No more than one sub-field or cognate course (the group numbered 5, 11, 12, and 185) may be included within the minimum requirement.

A course in introductory statistics (e.g., Psychology 131 or 173, Quantitative Analysis 85, Mathematics 54) is strongly recommended. A second course in computer programming and numerical computation (e.g., 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 16 credits in sociology constitutes a minor. Must include Sociology 1 and 101, the latter to be completed during the junior or senior year. No more than one subfield or cognate course may be taken (those numbered 5, 11, 12, and 185). A minimum of two fields of sociology courses must be completed by each student above the sociology minor core course requirement of 1 and 101.

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 101 and 102 will be taken in the junior year; and Sociology 195 and 196 will be taken in the senior year.

COURSES IN SOCIOLOGY

1. (Formerly 53.) INTRODUCTORY SOCIOLOGY. Each sem. 2+2, 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.

5. (Formerly 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. Field trip fee, $5.00.

11. (Formerly 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 1 or consent of the chairman of the department.

12. (Formerly 56.) BLACK STUDIES: BLACK URBAN COMMUNITY. Each sem. Cr. 3. A topic of special interest to the Black Studies Program is presented. Prerequisite: Sociology 1 or consent of the chairman of the department.

51. (Formerly 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 1 or consent of the chairman of the department. Field trip fee, $5.00.
52. (Formerly 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 1 or consent of the chairman of the department.

101 (201). SOCIOLOGICAL ANALYSIS I. Each sem. Cr. 3-4. A study of the historical development of sociological thought and the theoretical contributions of major orientations in contemporary sociology. Various American and European schools of thought, both historic and contemporary, are analyzed and critically appraised. Required of junior majors. Prerequisite: Sociology 1 or consent of the chairman of the department. Offered upon sufficient demand.

102 (202). SOCIOLOGICAL ANALYSIS II. Each sem. Cr. 3-4. The construction of testable theories and the testing and derivation of theories with elementary survey analysis techniques. Required of junior majors. Prerequisite: Sociology 101 or consent of the chairman of the department. Offered upon sufficient demand. Laboratory fee, $10.00.

104 (204). (Formerly 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 1 or consent of the chairman of the department.

107 (207). (Formerly 207.) SOCIOLOGY OF RELIGION. (Also offered as Religion 167 (267).) 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 1 or consent of the chairman of the department.

112 (212). (Formerly 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 1 or consent of the chairman of the department.

*120 (*220). (Formerly 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 1 or consent of the chairman of the department.

*130 (*230). (Formerly 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 1 or consent of the chairman of the department.

*140 (*240). (Formerly 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 1 or consent of the chairman of the department.

*185 (*285). SPECIAL PROBLEMS IN SOCIOLOGY. Cr. 1-3. An investigation of selected topics central to the field of sociology. Prerequisite: Sociology 1 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 101 and 102. Laboratory fee, $10.00.

*Assessment of laboratory fee dependent on selection of topic.
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 Graduates Only*

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 chairman of the department.

302. **Seminar in Criminology and Penology.** Cr. 3. Critical review of current theory, practice, and research in criminology and penology. Prerequisite: consent of the chairman of the department.

*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 chairman of the department.

*Assessment of laboratory fee dependent on selection of topic.*
THE DEPARTMENT OF SPEECH AND DRAMA

Professor Sitton (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, 70, 81, 105, 108, 166, 182, 185, 186, and 199 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, 108, 166, and 105 or 185 or 186 should be included.

MINOR IN SPEECH—A minimum of 16 credits in speech constitutes a minor. Speech 40 is required.

Courses 70, 108, 145, 151, and 171 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 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 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 48 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.

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

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.

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 newspapers, 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.

104 (204). (Formerly 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.

105 (205). (Formerly 205.) THE AMERICAN THEATRE AND ITS LITERATURE. Sem. 1. Cr. 3. A history of the American theatre from its beginning to the present. Masterpieces of American dramatic literature are studied.

108 (208). (Formerly 208.) PERSUASION. Sem. 2. Cr. 3. A study of the theories and uses of the persuasive process in society.

138. PLAYWRITING. Each sem. Cr. 2. A course devoted to creative writing experiences in the dramatic form. May be repeated for credit.


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 20, 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. **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 103 or 104 or 106.

186. **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.

195. **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. May be repeated for credit.

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. Prerequisite: Speech 70.
THE DEPARTMENT OF THEOLOGY

Associate Professor Keller (Chairman); Professors R. Baepker, Koepeke, Kretzmann, Krodel, and Schultz; Associate Professors Droege, Jungkuntz, Korby, Lasky, and Rast; Associate Professors Albers*, Boehringer, Brockopp, Ludwig, Senne, Truemper, Weinhold, and Widiger

MAJOR—A minimum of 24 credits in religion beyond Religion 1. These 24 hours must include at least one course in each of the following five areas: Bible, Church history, Christian thought, Church and ministry, and history of religions.

Only one of the courses in professional religious education (Religion 81, 82, 83, 84) 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) may be counted toward a minor.

APPROVAL OF SCHEDULE—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†

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.

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.

53. FORMATIVE EVENTS IN CHURCH HISTORY. Each sem. Cr. 3. An approach to the Church's understanding of her nature and mission through the study of formative events in her history.

*Director, University Overseas Center, Reutlingen, Germany, 1972-1973.
†For courses given in Christ College, see page 216 of this Bulletin.
54. Christianity and Culture. Sem. 2. Cr. 3. An approach to contemporary Christian life through its encounter and dialogue with the world.


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. 3. This course aims to acquaint the student with the religions of mankind, their concepts of God, their institutions and their literature.

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.


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.


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.

165 (265). (Formerly 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.

167 (267). (Formerly 207.) **SOCIOLOGY OF RELIGION.** (Also offered as Sociology 107 (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 1 or consent of the chairman of the Department of Sociology.

171 (271). (Formerly 201.) **RECENT CHRISTIAN THOUGHT.** Sem. 1. Cr. 3. A study of the writings of major recent interpreters of Christian faith, such as Karl Barth, Paul Tillich, Reinhold Niebuhr, Wolfhart Pannenberg, and others.

176 (276). (Formerly 202.) **CONTEMPORARY ETHICAL ISSUES.** Sem. 2. Cr. 3. Advanced studies in selected contemporary ethical issues.

191. **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. 1-3. Prerequisites: junior standing, 12 semester hours in religion, and consent of the chairman of the department.

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*For Graduates Only*

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.

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.

*This course may not be counted toward meeting general education requirements in religion.

**This topic only will be given for 2 credits and is open to seniors only.
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

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. 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. This course may be taken a maximum of four times, though normally only for elective credit. Arranged with the chairman of the department.
CHRIST COLLEGE

Professor R. Baepler (Dean); Professors R. Luecke and Rubel; Associate Professor Reiner; Assistant Professors Affeldt and Lee*; Mr. Olmsted

Christ College exists to provide a place in undergraduate study for courses and programs which implement honors’ standards and at the same time offer the freedom and flexibility for educational experimentation. While sharing the general purposes of Valparaiso University and enrolling students from all of the colleges, Christ College does not prepare a student for a particular profession, but emphasizes the importance of liberal studies for the life and thought of the student. Thus the College requires its students to inquire beyond their specialized interests into the larger contexts of human thought, action, and production, encouraging thereby the exploration of values and the integration of knowledge. Above all Christ College encourages the restlessness of the seeker who desires to know things as they are and whose thought and imagination have been captured by some vision of things as they might be under the grace of God and the exertions of human will and intelligence.

To achieve these purposes Christ College provides

a variety of planned programs and supervised study leading to a student’s graduation with the honors designation “Christ College Scholar” or “Christ College Associate”;

one or more comprehensive Freshman Programs which approach general education experimentally at the level of honors work and fulfill part of the University’s general education requirement;

a range of courses and programs, largely experimental or interdisciplinary in nature, which do not naturally fall into the traditional division of work among the regular departments;

co-curricular experiences, including lectures and conferences designed to foster a reflective and civilized style of life as well as involvement in the problems of modern society;

opportunities to work out a theology of life and vocation;

a new physical setting which facilitates immediate relationships between students and faculty as well as communication among the traditional divisions of knowledge.

THE FRESHMAN PROGRAM

The Freshman Program is a network of activities designed to capitalize on the educational opportunities arising from a series of carefully designed general studies. The Freshman Program is offered to a relatively small group of freshmen who are willing to invest more of themselves in the academic enterprise than might normally be required of them. Small classes, tutorial work, and an experimental flair characterize the multi-disciplinary work of the Program.

Students are admitted into the Program upon approval of their applications for admission. The application form, which is available through

the Dean’s office, asks that a student provide evidence of his ability to profit from the Program, together with an expression of his personal intellectual goals. Since a limited number of students can be accepted for the Program, the Christ College staff will choose its registrants from among the applicants.

The Freshman Program for 1971-1972 was planned as a two-semester sequence and carried eight hours of academic credit per semester. The “course” was called “Problems of Inquiry: The Humanities and Social Sciences” and successful completion of the Program satisfied part of the general education requirements of the student’s college. Students from the professional colleges as well as from the College of Arts and Sciences were enrolled in the Program. This Program will be repeated in revised form in 1972-1973; a further description of it is available through the office of the Dean of the College.

ADMISSION AND MEMBERSHIP

Any student at Valparaiso University is welcome to enroll in the courses offered by Christ College, subject to the approval of the instructor of the course. Students who wish to become members of the College may apply for admission beginning with their sophomore year but no later than the middle of their junior year. Students admitted to the College are designated “Members of Christ College.” Since such students are at the same time enrolled in another University college, they are jointly advised by their departmental adviser and their Christ College adviser.

In admitting students, consideration will be given to the interests and goals of the student, his academic achievement and promise, and evidence of his initiative, originality, creativity or qualities of leadership.

Once admitted to membership, a student’s status is periodically reviewed by the faculty to determine whether the student is satisfying the standards and requirements of the College. These requirements include satisfactory academic progress toward the College’s stated goals and contribution to the common life of the College and the University. Even when a student is not directly involved in the courses offered by the College, he shall contribute to the College’s common life, partly through his relationship with his adviser and partly through membership in the Christ College Symposium which meets periodically during each semester at a regularly scheduled hour. He may further contribute by assisting in teaching; opportunities for instructional assistance shall be arranged particularly for senior students.

The faculty takes an interest in the total program of each member. Accordingly it may authorize certain variations in the normal academic requirements of a student if such variations seem desirable. For example, it may permit him to carry additional hours, to waive prerequisites for advanced courses, to acquire academic credit through examination, and to waive certain University requirements if such waivers are justified. In general, the faculty may tailor the student’s program to meet his interests and needs within the general framework of the University’s objectives.
Membership in Christ College is never terminated by the mechanical application of arbitrary criteria such as grade point average or the student's academic record for a particular semester. In general Christ College students should expect to maintain an average grade of B 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.

A member of Christ College may graduate as a "Christ College Scholar" or a "Christ College Associate." The particular requirements of each designation are stated below. The transcript of each graduate will carry this designation together with an explanation of its meaning.

Members of the 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 faculty of Christ College may recommend such adjustments in these requirements as are in the spirit of the University's requirements and in the best interests of the students.

**REQUIREMENTS FOR GRADUATING AS A CHRIST COLLEGE SCHOLAR**

1) Membership in Christ College for a minimum of three semesters.

2) Twenty-five hours of work in courses in the College at a grade average of at least B.

3) Three courses in Christ College taken during the junior and senior years. These courses may include tutorial or independent study taken under the auspices of Christ College. Students enrolled in an off-campus program of the University may petition to waive one of these three courses, except that the Senior Seminar shall not be waived.

4) Completion of the Freshman Program of Christ College or, in the case of students entering the College after the freshman year, completion of Philosophy of the Arts and Sciences. (Philosophy 101)

5) One course in religion sponsored by Christ College and one Masterpieces of Literature course or its equivalent. Students enrolled as sophomores are expected to take the Masterpieces of Literature sequence. (8 hours)

6) The senior seminar.

7) The bachelor's essay. The bachelor's essay does not count as one of the three required courses. (See 3, above) In some instances, certain types of independent study may replace the bachelor's essay and may count as a course. Students seeking specific information on this part of the Program may obtain a brochure from the Dean's office.
REQUIREMENTS FOR GRADUATING AS A
CHRIST COLLEGE ASSOCIATE

Same as above except that 16 hours of total work will be required in Christ College, of which the senior seminar shall be required as the only necessary junior-senior course. The Associate is required to write a bachelor’s essay.

*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 credits |
| Urban Studies 150 | Power and Justice | 4 credits |
| Liberal Studies 194 | Independent Study Project | 3 credits |

Students shall be admitted to this program on the recommendation of an appropriate committee. This program is offered for the school year of 1972-1973.

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.

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 special program in the humanities at Valparaiso University offers interested and qualified students an opportunity for a planned study program in which the humanities as a cluster of discrete but related disciplines receive special emphasis. Developed by the student with appropriate advisers, this special program is designed to provide the student with co-

*S/U grade.
herence in course programming, concreteness in his learning tasks, and direct interaction with students and instructors in discussion seminars and independent study. The special program in the humanities is in effect an interdisciplinary major available in two forms.

Each study plan is briefly outlined below. A more detailed explanation of the program is available from the office of the Dean of Christ College. Three kinds of learning experiences are common to each study plan: a series of core sequence courses in the humanities in which an interrelated group of disciplines—literature, history, philosophy, and religion—receives major emphasis; a series of courses in a concentration or major area; an independent study leading toward a comprehensive examination on a series of sources of thought, or toward a bachelor's essay.

I. The following program of studies comprises a major in the humanities:

A. The Core Sequence. All humanities majors are required to take Humanities 150: Interpretation in the Humanities; and Humanities 195: Value and Judgment. In addition, each humanities major will be required to take three seminars:

- Humanities 160. Humanities Seminar (Topic);
- Humanities 170. Humanities Seminar (Source);
- Humanities 180. Humanities Seminar (Period).

B. The Concentration Area. The humanities major will also offer a concentration in a single field of studies from the following disciplines: history, literature, philosophy, or religion. Students may concentrate in other areas with the approval of the Christ College core staff. Such a concentration will include at least five courses in a discipline beyond general education requirements, including a study of fundamental methods and materials in his discipline which have been approved by his faculty tutor.

C. Independent Study. To provide additional range and flexibility in his program, the humanities major will develop with his faculty tutor, and with the approval of the Christ College core staff, a detailed plan of study of selected works of eight great men from the humanities. A comprehensive examination of the works of these men will be taken early in the spring of the senior year. A passing grade in this examination carries six hours of credit toward graduation.

II. The following guidelines are recommended for students desiring to include a significant stress on the humanities in an individualized program of study, in an interdepartmental major, or in a double major.

A. The initial proposal should be presented to the Dean of the College of Arts and Sciences for approval after the student
has consulted with his department adviser and his human- 

ities program adviser.

B. The following program of studies comprises a minimal major in the humanities taken as a second major:

1. The Core Sequence. Students whose second major is humanities must fulfill requirement I-A above.

2. The Concentration Area. Completion of an approved major in another discipline satisfies the requirements of the Concentration Area specified in I-B above.

3. Independent Study. Students taking the humanities major as a second major may substitute an interdisciplinary independent study for the examination.

III. Humanities 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 constitutes a minor in the humanities. Courses must include Humanities 150, 195, and two humanities seminars.

COURSES IN CHRIST COLLEGE

Humanities and Social Sciences 35. PROBLEMS OF INQUIRY 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 (ABCDGF) will be given throughout the semester but the final course grade will be S/U.

Humanities and Social Sciences 36. PROBLEMS OF INQUIRY II. Sem. 2. Cr. 4. A half-semester course which is a continuation of Humanities and Social Sciences 35. The course will focus intensively on aspects of works selected from the writings of several systematic thinkers such as Plato, Aristotle, and Freud. S/U grade optional.

Humanities and Social Sciences 37. PROBLEMS OF INQUIRY III. Sem. 2. Cr. 4. A half-semester course which is a continuation of Humanities and Social Sciences 36. The course will deal with a number of masterpieces drawn from the humanities and the sciences. Each student will conduct a major investigation of a problem to be formulated in the course of the term.

English 53. MASTERPIECES OF LITERATURE. Sem. 1. Cr. 4. A study of selected masterpieces of world literature. Prerequisite: Humanities and Social Sciences 35 or English 5.

English 54. MASTERPIECES OF LITERATURE. Sem. 2. Cr. 4. Continuation of English 53. Prerequisite: Humanities and Social Sciences 35 or English 5.

Religion 180. ISSUES IN CONTEMPORARY CHRISTIAN THOUGHT. Each sem. Cr. 3. A study of contemporary Christian writers and the issues they deal with in their effort to relate the Christian faith to modern culture.


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.

Liberal Studies 140. SPECIAL TOPICS. Each sem. Cr. 3. Each year Christ College will offer courses, often in the form of seminars and open to all juniors and seniors in the University, dealing with themes of social, intellectual, or artistic importance. These courses will ordinarily be multidisciplinary in nature. Topics dealt with in the past and likely to be repeated in the future include:

- Law and Society
- Technology and Human Culture
- The Unity of the Arts
- Personality and Politics
- American Public Policy
- Scientific Theories

Liberal Studies 155. TUTORIAL STUDIES. Each sem. Cr. 2-4. A course of studies arranged by a professor and one or more students. S/U grade optional. Open only to members of Christ College. Prerequisite: consent of the dean.

Liberal Studies 185. CHRIST COLLEGE SYMPOSIUM. Each sem. Cr. 0. A periodic occasion for presentation and discussion of items and topics of special interest to members of the Christ College community. Required of all members of the College. S/U grade.

Liberal Studies 191. INQUIRY IN THE LIBERAL ARTS. Sem. 1 or 2. Cr. 3. A course in the theory and practice of the liberal arts. Students in this course will collaborate with instructors as tutorial assistants in other courses offered by the College. S/U grade.

Liberal Studies 192. CONTEMPORARY VIEWS OF MAN. Sem. 2. Cr. 3. A seminar offered under the supervision of the faculty of 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 understand and analyze the writers' views of man. This course is intended primarily for seniors in the Christ College Program. When space permits, other students will be admitted upon the approval of the Dean of the College.

Liberal 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 150. INTERPRETATION IN THE HUMANITIES. Sem. 1. Cr. 4. 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. HUMANITIES SEMINAR. Sem. 1 or 2. Cr. 3. An interdisciplinary study of a particular topic (e.g., Christian Humanism, Marxist Humanism, Technology and Culture) on the basis of works selected from the various fields of the humanities. Prerequisite: consent of the dean.
Humanities 170. **Humanities Seminar.** Sem. 1 or 2. Cr. 3. An interdisciplinary study of a representative person whose work and life have had a significant influence in the Western Tradition (e.g., Nietzsche, Coleridge, Goethe). Prerequisite: consent of the dean.

Humanities 180. **Humanities Seminar.** Sem. 1 or 2. Cr. 3. An interdisciplinary study of the thought, sensibility and social context of a particular period (e.g., The Greek Experience, The Romantic Movement, Man in the Modern Epos) through an examination of selected works from that period. Prerequisite: consent of the dean.

Humanities 184. **Supervised Study Project.** Sem. 1 or 2. Cr. 3. A study of selected texts in the humanities major's concentration area. Designed by the student with his faculty tutor, this study focuses on development of the student's analytical skills in the methods and materials of his concentration area.

Humanities 186. **Independent Study.** Sem. 1 or 2. Cr. 3. A course of study arranged by the student with an instructor. The study will result in an essay on an approved topic of an interdisciplinary nature.

Humanities 194. **Sources of Thought.** Sem. 2. Cr. 6. An independent study of the works of a number of great thinkers and artists selected jointly by the student and the faculty of the College. Prerequisites: senior standing and consent of the dean.

Humanities 195. **Value and Judgment.** 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.
THE COLLEGE OF BUSINESS ADMINISTRATION

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 extracurricular activities.

COOPERATIVE 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 94-96 of this bulletin).

No credits earned in secretarial studies and only four semester credits earned in the College of Engineering may count towards the degree of Bachelor of Science in Business Administration. Credits earned in Developmental Reading are treated in the same manner as secretarial studies. Students who transfer to the College of Business Administration from another college within the University must have their work evaluated with reference to the requirements of the appropriate curriculum.

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 87 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: Exposition and Argument</td>
<td>4</td>
</tr>
<tr>
<td>Literary Studies</td>
<td>4</td>
</tr>
<tr>
<td>Professional Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>*Mathematics</td>
<td>8</td>
</tr>
<tr>
<td>Natural Science (Any two courses)</td>
<td>8</td>
</tr>
<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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</table>

### College of Business Administration

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<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>***Liberal Arts Electives</td>
<td>11 or 12-14</td>
</tr>
</tbody>
</table>

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*A student placing out of the first course in mathematics must take the second course in mathematics or the equivalent. The 4 credits by-passed by the placement student placing out of both courses in mathematics must take one other course in mathematics (4 credits). The 4 credits by-passed by the placement qualification may be satisfied by any 3 credit Liberal Arts course. Consult with the Dean of the College for specific information on other substitutes.

**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 11 credits of Liberal Arts electives to allow for the Mathematics 21 or 84 course requirement.

****Any approved course except Home Economics 115.
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**
- Mathematics 84 ........................................... 3 credits

**Major Requirements in the College of Business Administration**
- 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, E186, or E187) .................... 3 credits
- Accounting Electives ..................................... 12 credits
- Business Electives ....................................... 6 credits

Total .................................................................. 42 credits

**ADMINISTRATION MAJOR**

**Upper Division**

**Major Requirements in the College of Business Administration**
- Accounting 103 .......................................... 3 credits
- Marketing 132 .............................................. 3 credits
- Management 147 ............................................ 3 credits
- Finance (Any course numbered above F161) ............ 3 credits
- Finance 161 .................................................. 3 credits
- Management or Marketing (Any course numbered above Mgmt. 41 or Mrktg. 31) ...................... 3 credits
- Quantitative Analysis 87 ................................ 3 credits
- Economics (E183, E185, E186, or E187) ................... 3 credits

Specialization Options:
- A. Business Electives ................................. 18 credits
- B. Management, Marketing or Finance ............. 9 credits
  Business Electives ......................................... 9 credits
- C. Related Arts and Sciences
  Minor as defined by the Arts and Sciences department
  and approved by the Dean, College of Business Admin .... 12 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.

*Accounting 101 or 111 may be substituted.
Upper Division
Major Requirements in the College of Business Administration

Economics 185 ........................................ 3 credits
Economics 186 ........................................ 3 credits
Economics 187 ........................................ 3 credits
Quantitative Analysis 86 or 89 (or mathematics equivalent to Quantitative Analysis 89) .................. 3 credits
Management 147 .................................... 3 credits
Economics Electives ................................ 15 credits
Business Electives ................................... 12 credits
Total .................................................. 42 credits
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. Laboratory fee, $5.00.

**12. ACCOUNTING PRINCIPLES.** Each sem. 2+2, Cr. 3. A continuation of Accounting 11. Prerequisite: Accounting 11 or the equivalent. Laboratory fee, $5.00.

101. 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. Laboratory fee, $5.00.

102. INTERMEDIATE ACCOUNTING II. Sem. 2. Cr. 3. A continuation of Accounting 101. Prerequisite: Accounting 101 or the equivalent. Laboratory fee, $5.00.

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. Laboratory fee, $5.00.

112. ADVANCED COST ACCOUNTING. Sem. 2. Cr. 3. A course designed to prepare students to analyze and use cost information for decisionmaking 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. Laboratory fee, $5.00.

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.

*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.

**Credit for Accounting 11 and 12 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Accounting.
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 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. Laboratory fee, $5.00.

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, Tychsen, and Wilson; Mr. Burfeindt

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.

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.

*Credit for Business Law 53 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Business Law.
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 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. (Not offered after Spring Semester, 1972-1973.)

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. 3-4. 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: Markov chains, linear and dynamic programming, queuing theory, learning models, population models, and simulation. Prerequisites: Mathematics 31, 33, and 36 or the equivalent, and a first course in statistics from any department.

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 organizational theory. Prerequisite: Management 41. (Offered in 1973-1974.)

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.

*Credit for Management 41 may be earned through the College Level Examination Program (CLEP) subject examination in Introduction to Business Management.
COURSES IN MARKETING

131. 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.

132. 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 1973-1974.)

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 decisionmaking. 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. Laboratory fee, $5.00.

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. Laboratory fee, $5.00.

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. Laboratory fee, $5.00.

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.

*Credit for Marketing 31 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Marketing.
144. **Mathematical Models in the Social Sciences.** (Also offered as Mathematics 163.) Sem. 1. Cr. 3-4. 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: Markov chains, linear and dynamic programming, queuing theory, learning models, population models, and simulation. Prerequisites: Mathematics 31, 33, and 36 or the equivalent, and a first course in statistics from any department.

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.

*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. 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 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. (Not offered after Spring Semester 1972-1973.)


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 socioeconomic 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 and junior standing in the College.

178 (278). (Formerly 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.

*Credit for Economics 71 and 72 may be earned through the College Level Examination Program (CLEP) subject examination in Introductory Economics.
181. **Economics of Developing Nations.** Sem. 1. Cr. 3. An analysis of economic variables, both theoretical and institutional, which characterize developing nations. Emphasis is placed on cyclical poverty, allocation of resources and policy planning. Prerequisites: Economics 71 and 72.

182. **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.

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

186 (286). (Formerly 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.

187 (287). (Formerly 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.

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

189 (289). (Formerly 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.

199. (Formerly 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.

*Credit for Economics 185 may be earned through the College Level Examination Program (CLEP) subject examination in Money and Banking.*
THE COLLEGE OF ENGINEERING

Associate Professor Lehmann (Acting Dean); Professor Hesse (Dean Emeritus); Professor Mortimer (Secretary)

CURIricula 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 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 electromechanical and electrohydraulic devices and components, transducers, recorders, and breadboard apparatus. Analog computers and special measuring devices are used for component modeling and system studies.

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 is 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 exitation 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 87 of this bulletin.

**REQUIREMENTS FOR GRADUATION**

In addition to the requirements for graduation set forth on page 94 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 col-
leges; 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 one and one-half year 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>M</th>
<th>R</th>
<th>GE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus I</td>
<td>4</td>
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<td>4</td>
</tr>
<tr>
<td>Religion</td>
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<tr>
<td>Introduction to Engineering</td>
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<td>Physical Education</td>
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<table>
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<th>Courses</th>
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<th>GE 63/GE 14</th>
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</thead>
<tbody>
<tr>
<td>Energy Systems/Mechanics-Statics</td>
<td>3</td>
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</tr>
<tr>
<td>Engineering Science I/Graphics</td>
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Total Credits ................ 14/13 2/6 15

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Calculus II</td>
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<td>4</td>
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<tr>
<td>Exposition and Argument</td>
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<tr>
<td>Liberal Arts Elective</td>
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<tr>
<td>Physical Education</td>
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<table>
<thead>
<tr>
<th>Courses</th>
<th>GE 90/GE 69</th>
<th>GE 14/GE 63</th>
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</thead>
<tbody>
<tr>
<td>Mechanics-Statics/Energy Systems</td>
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<td>Graphics/Engineering Science I</td>
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Total Credits ................ 15/16 6/2 17

#### SECOND YEAR

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Ch</th>
<th>GE</th>
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<td>Calculus III</td>
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<tr>
<td>General Chemistry</td>
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<tr>
<td>Electricity and Magnetism</td>
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<td>3</td>
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<tr>
<td>Mechanics-Dynamics</td>
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<td>Religion</td>
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Total Credits ................ 16 5 18

**Second Semester**

**CIVIL ENGINEERING**

<table>
<thead>
<tr>
<th>Course</th>
<th>M</th>
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<tbody>
<tr>
<td>Linear Algebra and Differential</td>
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<tr>
<td>Equations</td>
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<td></td>
</tr>
<tr>
<td>Engineering Science II</td>
<td>3</td>
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<td>3</td>
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</tr>
<tr>
<td>Basic Electrical Engineering</td>
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Add one of following

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<thead>
<tr>
<th>Course</th>
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<th>Bi</th>
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<tbody>
<tr>
<td>General Chemistry</td>
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<tr>
<td>Unity of Life</td>
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Total Credits ................ 16 3/6 17/18

**SECOND SEMESTER**

**ELECTRICAL ENGINEERING**

<table>
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<tr>
<th>Course</th>
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<th>EE</th>
<th>EE</th>
<th>EE</th>
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<tbody>
<tr>
<td>Linear Algebra and Differential</td>
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</tr>
<tr>
<td>Equations</td>
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<td></td>
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<tr>
<td>Laboratory I</td>
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<tr>
<td>Linear Circuits</td>
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<tr>
<td>Non-Linear Circuits</td>
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<tr>
<td>Literary Studies</td>
<td>4</td>
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</table>

Total Credits ................ 17 3 18
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 DEPARTMENT OF CIVIL ENGINEERING

Professor Peller* (Chairman); Professors Mortimer and El-Naggar**; Associate Professors Marino and Schueler; Assistant Professor Spring

## CURRICULUM
### THIRD YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 106. Fluid Mechanics I</td>
<td>CE 100. Surveying</td>
</tr>
<tr>
<td>CE 109. Structural Analysis I</td>
<td>CE 115. Structural Analysis II</td>
</tr>
<tr>
<td>CE 112. Materials Engineering</td>
<td>CE 122. Soil and Foundation Engineering</td>
</tr>
<tr>
<td>CE 120. Soil Mechanics</td>
<td>CE 164. Environmental Engineering I</td>
</tr>
<tr>
<td>E 25. Literary Studies</td>
<td>SP 40. Fundamentals of Speech</td>
</tr>
<tr>
<td><strong>Total Credits</strong>: 15 9 18</td>
<td><strong>Total Credits</strong>: 14 12 18</td>
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</table>

## FOURTH YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 163. Transportation</td>
<td>CE 114. Engineering Management</td>
</tr>
<tr>
<td>CE 117. Structural Design II</td>
<td>CE 113. Fluid Mechanics II</td>
</tr>
<tr>
<td>CE 165. Environmental Engineering II</td>
<td>CE 198. Civil Engineering Project II</td>
</tr>
<tr>
<td>CE 197. Civil Engineering Project I</td>
<td>CE 118. Structural Design III</td>
</tr>
<tr>
<td>Ec 73. General Economics</td>
<td>CE 167. Traffic Engineering</td>
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<tr>
<td>Technical Electives</td>
<td>Technical Electives</td>
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<tr>
<td>CE 166. Environmental Engineering III</td>
<td>CE 115. Structural Analysis II</td>
</tr>
<tr>
<td>ME 105. Experimental Stress Analysis</td>
<td>CE 122. Soil and Foundation Engineering</td>
</tr>
<tr>
<td>Mathematics</td>
<td>CE 164. Environmental Engineering I</td>
</tr>
<tr>
<td><strong>Total Credits</strong>: 16 3 17</td>
<td><strong>Total Credits</strong>: 14 6 17</td>
</tr>
</tbody>
</table>

**Comment**: A list is available for approved Liberal Arts electives.

Total Credits, 136

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**Acting Chairman, Fall Semester, 1972-1973.
**THE DEPARTMENT OF ELECTRICAL ENGINEERING**

*Professor Shewan (Chairman); Professor Dauberman; Associate Professors E. Luecke, Vater, and Vocke; Assistant Professor Schoech*

### CURRICULUM

#### THIRD YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 131. Electromagnetic Field Theory</td>
<td>EE 138. Energy Conversion</td>
</tr>
<tr>
<td>EE 132. Laboratory II</td>
<td>EE 133. Laboratory III</td>
</tr>
<tr>
<td>EE 140. Electronics I</td>
<td>EE 141. Electronics II</td>
</tr>
<tr>
<td>EE 135. Network Analysis</td>
<td>EE 153. System Theory I</td>
</tr>
<tr>
<td>GE 64. Engineering Science II</td>
<td>CE 106. Fluid Mechanics I</td>
</tr>
<tr>
<td>Liberal Arts Elective</td>
<td>Ec 73. General Economics</td>
</tr>
<tr>
<td><strong>Total Credits</strong> 15 6 17</td>
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</tbody>
</table>

#### FOURTH YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 170. Thermo-dynamics I</td>
<td>EE 138. Energy Conversion</td>
</tr>
<tr>
<td>EE 154. System Theory II</td>
<td>Sp 40. Fundamentals of Speech</td>
</tr>
<tr>
<td>EE 158. Communication Theory</td>
<td>EE 192. Research and Development</td>
</tr>
<tr>
<td>EE 137. Laboratory IV</td>
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<tr>
<td>Add two of the following:</td>
<td>EE 138. Energy Conversion</td>
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<tr>
<td>EE 144. Microwaves</td>
<td>EE 143. Digital System Design</td>
</tr>
<tr>
<td>EE 149. Topics in Electrical Engineering</td>
<td>EE 145. Electro-Optical Systems</td>
</tr>
<tr>
<td>EE 156. Servomechanism Design</td>
<td>EE 149. Topics in Electrical Engineering</td>
</tr>
<tr>
<td>M Advanced Mathematics</td>
<td>EE 155. Power System Engineering</td>
</tr>
<tr>
<td>PS 121. Experimental Physics</td>
<td>EE 157. Energy Systems</td>
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<td><strong>Total Credits</strong> 17</td>
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*Comment: A list is available for approved Liberal Arts electives.*

Total Credits, 136
# THE DEPARTMENT OF MECHANICAL ENGINEERING

**Professor Zoss (Chairman); Professors Hesse, Isbell, and Kruger*; Associate Professor Lehmann; Assistant Professors Lux, Rose, and M. Weiss**

## CURRICULUM

### THIRD YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CE 103.</strong> Mechanics of Materials</td>
<td><strong>CE 112.</strong> Materials Engineering</td>
</tr>
<tr>
<td><strong>ME 186.</strong> Manufacturing Processes</td>
<td><strong>GE 64.</strong> Engineering Science II</td>
</tr>
<tr>
<td><strong>ME 171.</strong> Thermo-dynamics II</td>
<td><strong>ME 187.</strong> Statistical Engineering</td>
</tr>
<tr>
<td><strong>ME 180.</strong> Mechanism</td>
<td><strong>E 25.</strong> Literacy Studies</td>
</tr>
<tr>
<td><strong>GE 96.</strong> Basic Electrical Engineering</td>
<td><strong>CE 106.</strong> Fluid Mechanics I</td>
</tr>
<tr>
<td></td>
<td><strong>Sp 40.</strong> Fundamentals of Speech</td>
</tr>
<tr>
<td><strong>Total Credits 13 12 17</strong></td>
<td><strong>Total Credits 14 9 17</strong></td>
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### FOURTH YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td><strong>ME 183.</strong> Machine Design</td>
<td><strong>ME 185.</strong> Machine Design</td>
</tr>
<tr>
<td><strong>ME 190.</strong> Engineering Systems Analysis I</td>
<td><strong>ME 191.</strong> Engineering Systems Analysis II</td>
</tr>
<tr>
<td><strong>ME 177.</strong> Heat Transfer Liberal Arts Elective</td>
<td><strong>ME 179.</strong> Heat Power Design</td>
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<tr>
<td>Add two of the following: (one in ME)</td>
<td>Add one of the following:</td>
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<tr>
<td><strong>ME 181.</strong> Automatic Control</td>
<td><strong>ME 182.</strong> Vibrations</td>
</tr>
<tr>
<td><strong>ME 105.</strong> Experimental Stress Analysis</td>
<td><strong>ME 178.</strong> Gas Dynamics</td>
</tr>
<tr>
<td><strong>Bi 153.</strong> Human Environmental Biology</td>
<td><strong>M 179.</strong> Mathematics Elective</td>
</tr>
<tr>
<td><strong>M 105.</strong> Mathematics Elective</td>
<td><strong>PS 181.</strong> Reactor Physics</td>
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<tr>
<td><strong>PS 121.</strong> Experimental Physics</td>
<td><strong>Total Credits 17/18</strong></td>
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<td><strong>Total Credits 16/18</strong></td>
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<tr>
<td><strong>Comment:</strong> A list is available for approved Liberal Arts electives.</td>
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</tr>
</tbody>
</table>

**Total Credits, 136**

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*On sabbatical leave, Fall Semester, 1972-1973.*
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 Chairmen.

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 75 or concurrent registration.

GE 64. ENGINEERING SCIENCE II. Each sem. 3+0, Cr. 3. A study of the fundamental laws of atomic and nuclear structure, including properties of the electron and the special theory of relativity as applied to atomic and subatomic particles. A study is included of the development of nuclear energy and its application and the use of isotopes in industry. Prerequisite: Mathematics 76.

GE 69. ENERGY SYSTEMS. Each sem. 3+0, Cr. 3. A basic course in heat and thermodynamics. The first and second laws of thermodynamics are emphasized through energy balances, conservation of energy and energy limits. Properties of fluids and vapors are studied using tables and charts, and the equation of the perfect gas. Functions, principles of construction, and actual performance of heat power machinery are analyzed to demonstrate theory and practice.

GE 90. MECHANICS-STATICS. Each sem. 3+0, Cr. 3. Resolution and composition of forces; couples; free-body diagram; principles of equilibrium; friction; first and second moments of areas.

GE 94. MECHANICS-DYNAMICS. Sem. 1. 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. Prerequisite: Mathematics 76.

GE 95. ELECTRICITY AND MAGNETISM. Sem. 1. 3+3, Cr. 4. A study of the definitions and properties of static, electric, and magnetic force fields. The application of Kirchhoff's Laws to elementary DC and AC circuits is emphasized. Prerequisite: Mathematics 75. Laboratory fee, $10.00.

*Not more than twelve semester credits of Engineering may be counted toward a degree offered by the College of Arts and Sciences except to meet the requirements of the Five-Year Liberal Arts-Engineering Program. Not more than four semester credits of Engineering may be counted toward a degree offered by the College of Business Administration.
GE 96. BASIC ELECTRICAL ENGINEERING. Each sem. 3+3, Cr. 4. A course for the non-electrical engineering student. Principles and applications of electronic, electromechanical, electromagnetic devices, and electrical instrumentation are emphasized. Prerequisite: GE 95 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. Prerequisite: junior standing in the College. (Not offered after 1972-1973.)

GE 169. DIGITAL AND ANALOG METHODS. Each sem. 2+0, Cr. 2. An introductory course in the use of digital and analog computers: programming for the digital computer in algorithmic language, selected topics in numerical analysis applied to solutions of engineering problems, simulation of linear problems on the analog computer with emphasis on engineering applications. Prerequisite: Mathematics 77 or concurrent registration.

GE 195. SENIOR PROBLEM. Each sem. Variable credit. Selected students are permitted to work out a special problem in their particular field under the supervision of a member of the faculty. 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. 2. 1+6, Cr. 3. A study of the art and science of making field measurements of length and angles. Special emphasis is placed upon the theory of errors; use of surveying instruments; computer and calculator techniques as applied to surveying problems; and field practice in closure and route surveying. Prerequisites: GE 26 and Mathematics 76. Laboratory fee, $10.00. (For 1972-1973, 1+3, Cr. 2.)

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. Prerequisite: Mathematics 77.

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. (After 1972-1973, 2+3, Cr. 3. Laboratory fee, $10.00.)

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. (Not offered after 1972-1973.)

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. (Not offered after 1972-1973.)

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. (Not offered after 1972-1973.)

CE 112. MATERIALS ENGINEERING. Each sem. 1+3, Cr. 2. A study of the mechanical properties of engineering materials and the relationship between their behavior and the design of structural and machine components. The macro- and micro-structure of materials is studied and the elementary concepts of failure including fracture, yielding, and elastic instability are presented along with the classic theories of failure. Experimental investigations involving static yielding and fracture, high cycle fatigue, cryogenic temperature impact, and elevated temperature creep are conducted in the laboratory. Prerequisite: CE 103. 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 114. ENGINEERING MANAGEMENT. Sem. 2. 3+0, Cr. 3. The application of engineering economy concepts to construction projects using the case study approach. Investigating methods of construction management and the role the engineer plays in interacting with client and contractor. Prerequisite: senior standing in the College.

CE 115. STRUCTURAL ANALYSIS II. Sem. 2. 3+0, Cr. 3. Analysis of statically indeterminate structures, using the approximate method, classical methods and contemporary methods. These will include moment distribution, slope-deflection, matrix methods, elastic center column analogy and digital computer approaches. Prerequisites: GE 169 and CE 109.

CE 115A. 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. (Not offered after 1973-1974.)


CE 117. STRUCTURAL DESIGN II. Sem. 2. 3+0, Cr. 3. The analysis and design of reinforced concrete structural system components using working-stress method and ultimate-strength method. Design will include bending, shear and diagonal tension, bond, compression members, slab design and footings. Prerequisites: CE 109 and CE 115. (After 1973-1974, Sem. 1.)

CE 118. STRUCTURAL DESIGN III. Sem. 2. 3+0, Cr. 3. The design of structural system components using methods of composite design, plastic design and prestressed concrete design. Prerequisites: CE 116 and CE 117.

CE 120. SOIL MECHANICS. Sem. 1. 2+3, Cr. 3. The study of Index, structural, mechanical, and hydraulic properties of soils. Soil compaction and stabilization. Theoretical soil mechanics, including shearing strength, pressure distribution, consolidation, active and passive states of plastic equilibrium, and flow through permeable media. Elementary principles of laboratory identification
and testing of soils. Fundamental properties of plain concrete and its components, including batch design. Prerequisites: CE 103 and concurrent registration in CE 106 and CE 112. Laboratory fee, $10.00.

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. (Not offered after 1972-1973.)

CE 122. SOIL AND FOUNDATION ENGINEERING. Sem. 2. 3+0, Cr. 3. A continuation of CE 120. Further aspects of theoretical soil mechanics, including slope stability, lateral earth pressure and retaining walls, vertical pressure distribution and settlement, bearing capacity analysis, and load capacity of individual piles and pile groups. Proportioning of shallow and deep foundations. Subsoil investigation techniques. Prerequisite: CE 120.

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 social 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. (Not offered after 1973-1974.)

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. (After 1973-1974, Sem. 1.)

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. Prerequisite: CE 106. (After 1972-1973, 2+3, Cr. 3. Laboratory fee, $10.00.)

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. Study of the different types of pollutants and their effect on the environment as well as investigation of the methodology for determining air quality criteria and standards, regulations, and ordinances. Discussion of plans for the implementation of air pollution control. Prerequisite: CE 165.

CE 167. TRAFFIC ENGINEERING. Sem. 2. 3+0, Cr. 3. An introductory study of traffic flow: techniques for describing the flow and capacities of highways and intersections. Economic factors are considered. Prerequisite: CE 163.

CE 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. (After 1973-1974, 1+3, Cr. 2.)

CE 198. CIVIL ENGINEERING PROJECT II. Sem. 2. 0+6, Cr. 2. A continuation of the project selected in CE 197. Laboratory fee, $10.00.

THE DEPARTMENT OF ELECTRICAL ENGINEERING

EE 80. INSTRUMENTATION TECHNIQUES FOR SCIENTISTS. (Also offered as Chemistry 80.) Sem. 2. 1+2, Cr. 2. The application of modern electronic principles is applied to the proper use of basic scientific instrumentation. Emphasis is placed upon laboratory experience. The philosophy underlying the
use and limitations of instrumentation, and single trouble shooting techniques are studied. Special topics include: Basic electronic circuit elements, operational amplifiers, power sources, logic devices, the use of an oscilloscope as a basic measuring tool, various meters, and recording apparatus. Prerequisites: Physics 67 or concurrent enrollment and sophomore standing. Laboratory fee, $10.00.

EE 127. LABORATORY I. Sem. 2. 0+3, Cr. 1. Experimental study of linear and piece-wise linear circuits and instrumentation techniques. Prerequisite: GE 95. Laboratory fee, $10.00.

EE 128. LINEAR CIRCUITS. Sem. 2. 3+0, Cr. 3. Networks are studied both on a port and terminal basis, utilizing passive and linear active circuits. Network topology and transfer functions are introduced. Digital computer methods are employed in the analysis of linear circuits. Prerequisite: GE 95.

EE 129. NON-LINEAR CIRCUITS. Sem. 2. 3+0, Cr. 3. An introduction to the analysis of non-linear electrical devices and their performance in circuits and systems. Topics emphasized are: switching circuits; two state devices; Boolean algebra and logic circuits; piecewise-linear models of non-linear devices. Prerequisite: GE 95.

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. (Not offered after 1972-1973.)

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. LABORATORY II. Sem. 1. 0+6, Cr. 2. The study of signals and signal processing circuits, emphasizing instrumentation and measuring techniques. Prerequisites: concurrent registration in EE 135 and EE 140. Laboratory fee, $10.00.

EE 133. LABORATORY III. Sem. 2. 0+6, Cr. 2. A study of energy conversion devices and an introduction to project design. Case studies and open-end design problems are emphasized. Prerequisites: EE 132 and concurrent registration in EE 141. Laboratory fee, $10.00.

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. (After 1973-1974, senior elective.)

EE 135. NETWORK ANALYSIS. Sem. 1. 3+0, Cr. 3. Networks are studied in both the time-domain and the frequency-domain. Signals and systems are analyzed utilizing Fourier series, Fourier integral, and Laplace transform techniques. Elementary network synthesis is introduced. Prerequisite: EE 128.

EE 135A. 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: EE 128. (Not offered after 1972-1973.)

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. (Not offered after 1972-1973.)

EE 137. LABORATORY IV. Sem. 1. 0+3, Cr. 1. A study of the characteristics and performance of typical analog and digital control systems; communication systems; and computer systems. Prerequisite: EE 133. Laboratory fee, $10.00.
EE 138. **Energy Conversion.** Sem. 2. 3+0, Cr. 3. A study of electromagnetic devices with emphasis on the principles and operating characteristics of transformers and rotating electrical machines. Prerequisites: EE 128 and concurrent registration in EE 133. (Offered upon sufficient demand.)

EE 140. **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: EE 129.

EE 141. **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, and amplifiers. Prerequisite: EE 140.

EE 142. **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. (Not offered after 1973-1974.)

EE 143. **Digital System Design.** Sem. 2. 3+0, Cr. 3. A course in the organization and design of digital systems for computation, communication, and control. At least one major design project will be required for a system in each of these three areas. Prerequisites: EE 141 and EE 133. (Offered upon sufficient demand.)

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. (After 1973-1974, 3+3, Cr. 4.)

EE 145. **Electro-Optical Systems.** Sem. 2. 3+0, Cr. 3. A course in the application of electro-optical devices in the solution of problems in sensing, communication, and display. Special devices include: lasers, fibre optics, photo detectors, light emitting and light sensitive diodes, and illumination. Prerequisite: EE 153. (Offered upon sufficient demand.)

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. (Not offered after 1973-1974.)

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 96. Laboratory fee, $10.00. (After 1972-1973, 3+0, Cr. 3. No laboratory fee.)

EE 153. **System Theory I.** Sem. 1. 3+0, Cr. 3. An introduction to system analysis with emphasis on linear time-invariant systems and applications to communications and automatic control. Particular emphasis is placed on: signal representation; signal flow techniques; feedback theory; filters; transmission lines; and an introduction to state space methods. Prerequisite: EE 135. (After 1973-1974, Sem. 2.)
EE 154. System Theory II. Sem. 2. 3+0, Cr. 3. A continuation of System Theory I with emphasis upon discrete-time systems; the optimal control problem; non-linear systems and selected topics. Prerequisite: EE 153. (After 1973-1974, Sem. 1.)

EE 155. Power System Engineering. Sem. 2. 3+0, Cr. 3. Balanced and unbalanced power systems are studied. Particular emphasis is placed upon the "fault" problem and its relation to system stability. Computer methods are applied to loading problems in power distribution studies. Prerequisites: EE 137 and EE 138. (Offered upon sufficient demand.)

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. Electromechanical and electrohydraulic 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. (After 1973-1974, 3+3, Cr. 4.)

EE 157. Energy Systems. Sem. 2. 3+0, Cr. 3. A study of direct energy conversion systems. State of the art and future trends in energy conversion are considered. Special topics include: thermoelectric and thermionic converters; magnetohydrodynamic (MHD) engines; fuel and photovoltaic cells; and energy storage devices. Prerequisites: EE 137, EE 138, and ME 170. (Offered upon sufficient demand.)

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.

EE 192. Research and Development. Sem. 2. 1+6, Cr. 3. The application of theoretical and experimental engineering concepts and mathematical principles to the analysis, design, and investigation of an engineering system. Individual or group problems in the field of Electrical Engineering are to be selected by the student with approval of the faculty. Prerequisite: senior standing in Electrical Engineering. Laboratory fee, $10.00.

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 Moire grids. The theoretical and experimental analysis of stress distributions in machine and structural components subjected to various loadings. Prerequisites: Mathematics 104 and CE 103.

ME 170. Thermodynamics I. Sem. 2. 3+0, Cr. 3. The study of the second law of thermodynamics to reversible and irreversible processes, entropy, real gases, gas and gas-vapor mixtures. The application of thermodynamic principles to the study of vapor and gas cycles. Prerequisite: GE 69.

ME 171. Thermodynamics II. Sem. 1. 3+0, Cr. 3. The study of heat of combustion and calculation of chemical equilibrium, one-dimensional compressible flow, and binary mixtures. The application of thermodynamic principles to the design of rotating machinery. An introduction to statistical thermodynamics. Prerequisite: ME 170 or consent of the chairman of the department.

ME 171A. Thermodynamics II. Sem. 1. 3+0, Cr. 3. The study of the properties of fluid 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. (Not offered after 1972-1973.)
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 69. 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. (Not offered after 1973-1974.)

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. (Not offered after 1973-1974.)

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. (Not offered after 1973-1974.)

ME 177. HEAT TRANSFER. Sem. 1. 2+3, Cr. 3. The principles and practice of heat transfer by conduction, radiation, free and forced convection, vapor condensation, and boiling liquids. Unsteady state heat transfer, dimensional analysis, analytical and graphical solutions to engineering problems related to heat exchangers. Prerequisite: Mathematics 104.

ME 178. GAS DYNAMICS. Sem. 2. 3+0, Cr. 3. The study of gas dynamics in one and two dimensional flow. Topics include: nozzles, ducts, normal and oblique shock waves, and Prandtl-Meyer expansions. The application of the theory of gas dynamics to engineering design. Prerequisite: ME 170.

ME 179. HEAT POWER DESIGN. Sem. 2. 3+3, Cr. 4. The design of systems and equipment applying thermodynamic, flow and heat transfer fundamentals to power generation, energy conversion, and environmental control. Interrelation of theory and practice based on reliability, safety, environmental, and economic considerations is incorporated in both lecture and laboratory study. Prerequisite: senior standing in Mechanical Engineering. Laboratory fee, $10.00.

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 90.

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 104.

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 104, 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 extensively 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. Sem. 1. 2+6, Cr. 4. A study of manufacturing methods including production drawings, tools, materials, fabrication techniques, and inspection. Machinability of materials, application of machine tools, welding, metallurgy, casting, heat treating, and numerical control are introduced through lecture and laboratory work. Field trips to industrial facilities are arranged. Prerequisite: GE 14. Laboratory fee, $10.00.

ME 186A. MANUFACTURING PROCESSES I. Sem. 1. 2+3, Cr. 3. A study of engineering elements, tools, materials, and processes industry, fabrication, manufacture, and inspection. The principles of welding, metallurgy, casting, machinability of materials, the use and application of machine tools, and press work are introduced through the medium of lectures, demonstrations, films, and coordinated laboratory experimentation. Field trips to industrial plants are arranged to supplement the lecture and laboratory demonstrations. Prerequisite: GE 26. Laboratory fee, $10.00. (Not offered after 1972-1973.)

ME 187. STATISTICAL ENGINEERING. Sem. 2. 2+3, Cr. 3. An introduction to the application of statistics and probability theory in the solution of engineering problems. Concepts of variance, tolerance, and statistical properties of engineering materials are applied to design and production problems. The algebra of normal functions, learning curves, engineering economics, and statistical quality control techniques are related to manufacturing, reliability, and maintainability. Prerequisites: Mathematics 104 and ME 186.

ME 189. MANUFACTURING PROCESSES II. Sem. 2. 2+3, Cr. 3. A continuation 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. (Not offered after 1972-1973.)

ME 190. ENGINEERING SYSTEMS ANALYSIS I. Sem. 1. 1+3, Cr. 2. The application of engineering and mathematical techniques in the design of engineering 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. 1+6, Cr. 3. A continuation of ME 190. Laboratory fee, $10.00.
THE COLLEGE OF NURSING

Professor D. Smith (Dean); Associate Professor Whitehead; Assistant Professors Bluemel, Herzog, Janiga, and Lindemann; Miss Krueckenberg and Mrs. Sprecher

OBJECTIVES

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.

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>6</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>
</tbody>
</table>

| Total Credits                               | 55      |
B. A minimum of 55 credits from the College of Arts and Sciences. The specific requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposition and Argument</td>
<td>4</td>
</tr>
<tr>
<td>Literary Studies</td>
<td>4</td>
</tr>
<tr>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Unity of Life</td>
<td>4</td>
</tr>
<tr>
<td>Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Human Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry (must include laboratory)</td>
<td>6</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Religion</td>
<td>9</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

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 hours of electives be in the social sciences and 3 in the fine arts.

D. Requirements for Admission to Nursing Courses:
A student must have a minimum cumulative grade point average of 1.00 to be admitted to the first nursing course (usually N 52).
Continuation of the nursing program requires that the student entering the junior year shall have completed the required courses listed in the suggested schedule for freshman and sophomore years with an overall grade point average of at least 1.00.

**SUGGESTED SCHEDULE**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>Second Semester</td>
</tr>
<tr>
<td>Chemistry 43</td>
<td>4 Chemistry 44</td>
</tr>
<tr>
<td>Psychology 51</td>
<td>3 Biology 50</td>
</tr>
<tr>
<td>Sociology 1</td>
<td>3 English 5</td>
</tr>
<tr>
<td>Religion</td>
<td>3 Physical Education</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 Liberal Arts Elective</td>
</tr>
<tr>
<td>Liberal Arts Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 17
Total Credits: 16

*Six credits earned in the College of Business Administration may be counted toward a degree of Bachelor of Science in Nursing.
### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Biology 110</td>
<td>Biology 115</td>
</tr>
<tr>
<td>Statistics</td>
<td>Psychology 130</td>
</tr>
<tr>
<td>Home Economics</td>
<td>Nursing 52</td>
</tr>
<tr>
<td>English 25</td>
<td>Nursing 101</td>
</tr>
<tr>
<td>Religion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
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<tr>
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<td>17</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Nursing 103</td>
<td>Nursing 102</td>
</tr>
<tr>
<td>Nursing 105</td>
<td>Biology 153</td>
</tr>
<tr>
<td>Religion</td>
<td>Liberal Arts Elective</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
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<td>15</td>
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### SENIOR YEAR

<table>
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<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Nursing 107</td>
<td>Nursing 106</td>
</tr>
<tr>
<td>Nursing 109</td>
<td>Nursing 108</td>
</tr>
<tr>
<td>Liberal Arts Elective</td>
<td>Nursing 104</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits: 124

**NOTE:** The student is responsible for her own transportation whenever it is necessary for off-campus clinical experience.

### 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 $10.00.

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 prerequisites for the following courses are Nursing 52 and at least junior standing. See also requirements for admission statement above.

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. Laboratory fee, $10.00.

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. Laboratory 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. Laboratory fee, $10.00.
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.
THE SCHOOL OF LAW

UNIVERSITY CALENDAR FOR 1972-1973

For the School of Law

1972

FALL SEMESTER

August 28, Monday, 8:00 A. M. Instruction begins.

September 1, Friday, 8:00 A.M. Registration.*

October 21, Saturday. Homecoming Day.

November 1, Wednesday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in May 1973.**

November 17, Friday, 6:30 P.M. Thanksgiving recess begins.

November 27, Monday, 8:00 A.M. Thanksgiving recess ends.

December 8, Friday, 6:30 P.M. Instruction ends.

December 9, Saturday, 8:00 A.M. Reading period begins.

December 12, Tuesday, 6:30 P.M. Reading period ends.

December 13, Wednesday, 8:00 A.M. Final examinations begin.

December 22, Friday, 6:30 P.M. Final examinations end. Semester ends.

1973

SPRING SEMESTER

January 12, Friday, 8:00 A.M. Registration.

January 15, Monday, 8:00 A.M. Instruction begins.

March 9, Friday, 6:30 P.M. Spring recess begins.

March 19, Monday, 8:00 A.M. Spring recess ends.

April 20, Friday. Vacation day.

April 27, Friday. Law Day, U.S.A.

April 27, Friday, 6:30 P.M. Spring Festival.

April 28, Saturday. Spring Festival.

April 30, Monday, 6:30 P.M. Instruction ends.

May 1, Tuesday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in December 1973.**

May 1, Tuesday, 8:00 A.M. Reading period begins.

May 3, Thursday, 6:30 P.M. Reading period ends.

May 4, Friday, 8:00 A.M. Final examinations begin.

May 14, Monday, 6:30 P.M. Final examinations end. Semester ends.

May 16, Wednesday, Noon. Deadline for grades for candidates for the Juris Doctor degree.

May 20, Sunday. 99th Annual Commencement.

Certain other dates are observed annually by the University with special convocations or special services.

*Classes to be made up on Saturday, September 16.

**Applications will not be accepted after these dates except by approval of the Educational Processes Policy Committee.
THE SCHOOL OF LAW

Professor A. W. Meyer (Dean); Professors Bartelt, Gromley, Hiller, Stevenson, Wechsler, and Willis; Associate Professors Brockington (Assistant Dean) and Moskowitz; Assistant Professors Berner, Bodensteiner (Director of the Legal Aid Clinic), and Swygert*; Visiting Professor Venturini **; 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 Wesemann Hall in September 1963. It was approved by the American Bar Association in 1929, and since that time it has met continuously the requirements established by that Association’s Council on Legal Education and Admission to the Bar. In 1930 it was admitted to membership in the Association of American Law Schools. The degree of Juris Doctor 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 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 65,000 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 Sys-

tem, which now provides complete coverage of all federal and state appellate 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, 300 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—Despite its unprecedented growth during the past few years, the School of Law is still relatively small. Recognizing the distinct advantages of a small law school, the faculty is determined to limit enrollment and to maintain a very favorable faculty-student ratio. Even with the increased enrollment most second-year and third-year classes are small, making maximum participation by each student possible. Easy access to faculty members for personal consultation and advice is a Valparaiso tradition.

A thorough grounding in substantive law is the basis of the curriculum. The student must, however, also be thoroughly familiar with the framework in which the substantive law has been developed and is used in the work of the courts; for that reason, adjectival courses are integrated with substantive courses. The School 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 extracurricular activity.

First-year students are required to take the following block schedule:

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<tr>
<th>First Semester</th>
<th>Cr.</th>
<th>Second Semester</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>119. Torts I</td>
<td>2</td>
<td>120. Torts II</td>
<td>3</td>
</tr>
<tr>
<td>121. Criminal Law I</td>
<td>2</td>
<td>122. Criminal Law II</td>
<td>2</td>
</tr>
<tr>
<td>123. Contracts I</td>
<td>3</td>
<td>124. Contracts II</td>
<td>2</td>
</tr>
<tr>
<td>125. Property I</td>
<td>3</td>
<td>126. Property II</td>
<td>3</td>
</tr>
<tr>
<td>129. Procedure I</td>
<td>3</td>
<td>130. Procedure II</td>
<td>3</td>
</tr>
<tr>
<td>135. Legal Problems I</td>
<td>2</td>
<td>136. Legal Problems II</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
Second- and third-year courses are elective except that 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 276 to 280) to determine which courses are "strongly recommended", or "prerequisite" to other courses. As a guide to course selection, courses numbered in the 200's were formerly considered third-year courses.

**LAW REVIEW**

The *Valparaiso University Law Review* is published three times each year by the students of the School 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. The courses offered enable students to gain insight into the particular legal problems of the poor and to serve justice and the community.

The second-year classroom course in 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, pre-trial procedures, and preparation and use of memoranda and trial briefs. This course is prerequisite to the third-year courses in the Clinical Program.

The third-year 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

It is the policy of the School of Law to award financial aid primarily on the basis of need.

Students may apply for financial aid by filing the appropriate form with the Graduate and Professional School Financial Aid Service (GAPSFAS) Box 944, Princeton, New Jersey 08540.

Three categories of financial assistance are available:

Scholarships: An applicant is considered academically qualified for a scholarship if his cumulative undergraduate average is "B" or better and his Law School Admission Test score clearly indicates that he should be able to attain such an average in the School of Law.

Grants: Funds are also available in the form of Grants-in-Aid for applicants in critical financial need who do not qualify for scholarships but who, in the judgment of the Financial Aid Committee, merit financial assistance.

Loans: Students seeking loans are also required to file the application for financial aid with the Graduate and Professional School Financial Aid Service (GAPSFAS) Box 944, Princeton, New Jersey 08540. No other financial statement will be required.

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 bachelor’s 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 bachelor's 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 a numerical average of at least 70 in all law work undertaken at Valparaiso University in order to be eligible for a degree. In the computation of a student's standing grades of 55 earned at Valparaiso University are included.

All candidates for admission to the School 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 bachelor’s degree, may be admitted as special students provided: (A) they are at least 23 years of age and (B) there is evidence that their experience and training have equipped them to engage successfully in the study of law despite the lack of required college credit.

REGISTRATION

All students are expected to register on the official registration days of each semester as listed in the School 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 regulation regarding a grade of W. Application for changes in enrollment must be made by the student on proper forms and filed at the Office of the Registrar.

Admission to Courses as an Auditor—A classified student may register in a course as an auditor only with the permission of 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.

Students who wish to drop courses after the first week of the semester should read the regulation regarding a grade of W. Application for changes in enrollment must be made by the student on proper forms and filed at the Office of the Registrar.

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.
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 55 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.

*NUMERICAL MARKING SYSTEM

Results of work will be recorded in the Registrar's Office as follows:

70-100. Passing. Credit for graduation.
56-69. Unsatisfactory. Credit for graduation.
55. Failure. No credit for graduation.

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 a grade of 55. The student's deadline for submitting the outstanding work to the instructor shall be one full week prior to that date.

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

Any student withdrawing from a subject without first securing the official permission of his adviser will receive a grade of 55 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 55 after the end of the seventh week of the semester.

*Became effective as of the school year 1972-1973, except for the first-year class of 1971-1972 for which it was made retroactive and except for the third-year class of 1972-1973 for which letter grades will be used. See page 92.
S. Satisfactory; meets course objectives. Hours with grade of S count toward graduation but are not counted in computing the student’s standing. All regular work of the course is required of students electing the S/U registration. It is assumed that this work should be of 70, or better, quality to warrant the grade of S.

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

Grades of S and U are used in courses which are so designated in the course descriptions contained in the University Bulletin. (See page 88 for further use.) They may be used in other courses only in exceptional cases when approved by the Dean of the respective college and the Vice-President for Academic Affairs.

DEFINITION OF THE STANDING OF A STUDENT—A student’s standing is determined by his average numerical grade. (Computed by multiplying the numerical grade in each subject by the credit value of that subject, and dividing the total by the total number of credits attempted.)

CLASS HONORS IN SCHOLARSHIP
A student who achieves a standing of an average numerical grade of 87 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 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, numerical grades of 55 to 69, inclusive, 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 265.)

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 NUMERICAL GRADE AVERAGE BELOW:</th>
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<tbody>
<tr>
<td>30</td>
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</tr>
<tr>
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<td>69.5</td>
</tr>
<tr>
<td>over 46</td>
<td>70.0</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 numerical average falls below 70.0 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 Numerical Grade Requirements**—A candidate for graduation must have undertaken a total of 90 credit hours with passing numerical grades in a minimum of 85 credit hours. In addition he must have a numerical average of at least 70 in all law work undertaken at Valparaiso University. In the computation of this standing grades of 55 to 69, inclusive, earned at Valparaiso University are included. Credits earned at another law school and for which advanced standing has been given are treated as grades of 70 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 1972-1973 must make formal application for his degree on a form provided for this purpose by the registrar’s office not later than November 1, 1972. Applications will not be accepted after this date except by approval of the Educational Processes Policy 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 numerical average of 88 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 numerical average of 90 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 numerical average of 86 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 numerical average of 88 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, including changes in tuition and fees, 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, and to change tuition and fees 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 property resulting from intentional or negligent conduct. Limitations on liability. Liability of owners and occupiers of land. Strict liability. The impact of legislation 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.

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. Statute 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 NUMERICAL MARKING SYSTEM, page 272.

136. **LEGAL PROBLEMS II.** Sem. 2. Cr. 2. A continuation of Law 135.

*Not more than ten semester credits of Law may be counted toward a degree offered by the College of Arts and Sciences.*
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. Prerequisite to Law 254, Corporate Taxation.

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.

173. LEGAL PROCESS. Sem. 2. Cr. 2. A problem course study designed to heighten student awareness and understanding of the main institutions and processes (courts, legislatures, executive, administrative, private law making) of the American legal system in the perspective of their everyday working interrelationships.

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. S/U grade.

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. S/U grade.

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.)

*Second-year students must elect either Legal Process or American Legal History.
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. S/U grade.

190. **Trial Advocacy.** Sem. 2. Cr. 2. A training course designed to develop through student participation the desired skills of a trial lawyer: pre-trial preparation; proving facts in court; closing arguments; attention to the tactical and ethical aspects involved. S/U grade.

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. S/U grade. Prerequisite to the third-year Clinical Program courses.

215. **Jurisprudence.** Sem. 1. Cr. 2. An examination of various theories of law relative to its nature, source, growth, and function. Relation of law to other disciplines. A critical examination of philosophies of law in the light of the teachings of Christianity. (A required third-year course.)

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.

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.

238. **Admiralty.** Cr. 2. A study of the doctrines of admiralty as administered by the federal courts under the Constitution. Consideration is given to the problems of jurisdiction, carriage of cargo and passengers, rights and duties of maritime workers, salvage, insurance, and the conflict of laws at sea.

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.

254. **Corporate Taxation.** Sem. 1. Cr. 2. Income tax problems involved in the formation, operation, reorganization, and liquidation of corporations. Prerequisite: Law 167.

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 litigational problems. Students will work under the supervision of a member of the faculty and the practicing attorney. Enrollment is by invitation only and preference will be given the students not enrolled in the Clinical Program courses. Students registered for the Clinical Program courses may not also take the Current Litigation course and count the 2 credit hours toward the 90 hour graduation requirement.

262. **Law and Environmental Controls.** Cr. 3. An interdisciplinary study of the legal problems involved in air, water, and noise pollution.

271-272. **Law Review.** Sem. 1. Cr. 1., Sem. 2. Cr. 1. Participation in Law Review activities, including the writing, editing, and publication of legal notes and articles. Admission by invitation only. (Note: This course may be offered in satisfaction of seminar requirement.) S/U grade.

273. **Labor Law.** 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.
280

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. To participate in the Program students must first be certified to the Supreme Court of Indiana by the Dean. Students on academic probation are not permitted to register for these courses. 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. S/U grade. 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 1971

### Undergraduate Program

<table>
<thead>
<tr>
<th>Campus</th>
<th>The College of Arts and Sciences</th>
<th>The College of Business Administration</th>
<th>The College of Engineering</th>
<th>The School of Law</th>
<th>The College of Nursing</th>
<th>Graduate Program</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Men</td>
<td>Women</td>
<td>Total</td>
<td>Men</td>
<td>Women</td>
<td>Total</td>
</tr>
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<td>Freshman</td>
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### Graduate Program

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### Special Programs

- **National Science Foundation Institutes**
  - Special Graduate: 50 28 78

- **Chicago Seminar—Urban**
  - Undergraduate: 9 8 17
## Day Program

### The College of Arts and Sciences

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<tr>
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### The College of Business Administration

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### The College of Nursing

<table>
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<th>Level</th>
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<th>Women</th>
<th>Total</th>
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<tbody>
<tr>
<td>Freshman</td>
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## Evening and Off-Campus Divisions

### Evening Division

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# Statistics

## Geographical Distribution of Students

### Fall Semester 1971-1972

**Day Program Only**

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**Total** 3998

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