announcements for the sessions of 1970-1971
catalogue for the academic year 1969-1970
For the College of Arts and Sciences, the College of Business Administration, the College of Engineering, and the College of Nursing.

1970
SUMMER SESSION
(Eight Weeks)
June 15, Monday, 1:00 P.M. Registration for all students.
June 16, Tuesday, 7:30 A.M. Instruction begins.
August 6, Thursday, 7:30 A.M. Final examinations begin.
August 7, Friday. Final examinations end. Summer Session closes 5:00 P.M.

FALL SEMESTER
September 8, Tuesday, 8:00 A.M. Orientation week for freshmen begins.
September 10, Thursday, 8:00 A.M. Registration for upperclassmen.
September 11, Friday, 8:00 A.M. Registration for freshmen and transfer students.
September 14, Monday, 8:00 A.M. Instruction begins.
September 18, Friday, 5:00 P.M. Last day to add courses.
October 23, Friday, 5:00 P.M. End of period of routine withdrawal from a course with a grade of W.
October 24, Saturday. Homecoming Day.
November 2, Monday. Last day to file application of candidacy for the bachelor's degree to be conferred in June or August, 1971.**
November 10, Tuesday. Honors Convocation.
November 20, Friday, 6:30 P.M. Thanksgiving recess begins.
November 30, Monday, 8:00 A.M. Thanksgiving recess ends.
December 18, Friday, 6:30 P.M. Christmas recess begins.

1971
January 4, Monday, 8:00 A.M. Christmas recess ends.
January 8, Friday, 6:30 P.M. Instruction ends.
January 11, Monday, 8:00 A.M. Final examinations begin.
January 15, Friday, 6:30 P.M. Final examinations end.

SPRING SEMESTER
January 20, Wednesday, 8:00 A.M. Orientation for new students.
January 21, Thursday, 8:00 A.M. Registration for upperclassmen.
January 22, Friday, 8:00 A.M. Registration for all freshmen and transfer students.
January 25, Monday, 8:00 A.M. Instruction begins.*
January 29, Friday, 5:00 P.M. Last day to add courses.
March 5, Friday, 5:00 P.M. End of period for routine withdrawal from a course with a grade of W.***
March 26, Friday. Honors Convocation.
April 2, Friday, 6:30 P.M. Easter recess begins.
April 19, Monday, 8:00 A.M. Easter recess ends.
May 1, Saturday. Last day to file application of candidacy for the bachelor's degree to be conferred in January, 1972.**

*Instruction may begin one week earlier in the Cleveland, Ft. Wayne, and St. Louis Divisions.
**Applications will not be accepted after these dates except by approval of the appropriate University Standing Committee.
***After this date, 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.
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MRS. BETTE FROEHLICH (V.U. Guild) ...................... Appleton, Wisconsin
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BERNARD HEMMETER ........................................ Fort Wayne, Indiana
CLARENCE KELLEY (V.U.A.) ............................... Cuyahoga Falls, Ohio
EDWIN H. KOENEMAN (V.U.A.) .................. Fort Wayne, Indiana
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NORMAN LUEKENS (V.U.A.) ................................. Cleveland, Ohio
RICHARD MEIER (Treasurer) .............................. Evansville, Indiana
ROBERT C. MOELLERING (Vice-President) ............. Fort Wayne, Indiana
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RICHARD C. OSTER ........................................... New Orleans, Louisiana
FRED A. RODEE ............................................. Harbert, Michigan
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WILLIAM TATMAN ............................................. Oak Park, Illinois
ARNOLD K. WEBER (V.U.A.) ............................... Westmont, New Jersey
WILLIAM H. ZUEHLKE, JR. ................................ Appleton, Wisconsin

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BERNARD H. HEMMETER ............ RICHARD C. OSTER

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EWALD H. MUELLER, Chairman
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ERNEST J. GALLMEYER ......... FRED A. RODEE

*The President of the Board and the President of the University are ex-officio members of all standing committees.
OFFICERS OF THE UNIVERSITY

Officers of the University

School Year 1970-1971

Alfred G. Huegli, Ph. D., LL.D., D.D.


Vice-President for Academic Affairs........... Donald C. Mundinger, Ph.D.

Vice-President for Administration............ Harold A. Gram, D.S.S.

Vice-President for Student Affairs............ Walter C. Rubke, Ph.D.

Vice-President for Public and Alumni Affairs..... Richard P. Koenig, M.S.

Consultant to the President and Vice-President Emeritus........... Albert F. Scribner, M.A., LL.D.

Dean of the College of Arts and Sciences........ Louis A. Foster, Ph.D.

Dean of the School of Law............ Alfred W. Meyer, B.A., J.D., LL.M.

Dean of the College of Engineering............ Fred W. Kruger, M.S. in M.E.

Dean of the College of Business Administration........... Richard H. Laube, Ph.D.

Dean of Christ College............. Richard P. Baelder, Ph.D.

Dean of the College of Nursing........... Dorothy Paulsen Smith, R.N., Ph.D.

Dean Emeritus of the Faculty........... Walter E. Bauer, Ph.D.

Dean Emeritus of the College of Engineering........... Herman C. Hesse, M.E., D.Eng.

Dean of the Chapel............. Norman E. Nagel, Ph.D.

Dean of Women............. Dolores M. Rusch, M.S.

Dean of Men............. William H. Bellfuss, M.S.

Dean of Student Services........... Alfred R. Looman, A.B.

Business Manager........... Robert B. Springsteen, A.B.

Assistant to the President for Church Relations........... Luther P. Koepke, M.A., S.T.D.

Director of Libraries............ Carl H. Sachtleben, A.B., B.S.L.S., M.A.

Registrar............. Paul E. Thune, B.A.

Assistant Registrar........... Constance LePell, A.B. in Ed.

Comptroller............. Arlene Laesch, A.B.

Director of Evening Division and Summer Session........... Alfred C. Koester, M.A. in Ed.

Director of Graduate Division........... Howard N. Peters, Ph.D.

Director of Athletics............ Emory G. Bauer, M.A.

University Psychologist........... Mahela W. Hays, Ph.D.

Director of Special Gifts, Division of Public and Alumni Affairs...... Karl H. Henrichs, M.A.

Director of Admissions........... Frederick H. Rechlin, M.A.

Director of Financial Aid........... Martin W. Baumgaertner, M.S.
FACULTY

FACULTY*

†ALBERT G. HUEGLI, Ph.D., LL.D., D.D.
President

Indicates member of the University Senate.

CAROL LAURENCE ADAMS, M.A., Part-time Lecturer in Sociology
Lincoln University; Fisk University (B.A., 1965); Boston University
(M.A., 1966); The University of Chicago.

DENNIS C. AHL, B.A., B.D., Instructor in Theology
St. John's College; Concordia Senior College (B.A., 1964); Concordia
Theological Seminary, St. Louis, Missouri (B.D., 1968).

JAMES WILLIAM ALBERS, S.T.M., Assistant Professor of Theology
Concordia (Junior) College, Milwaukee, Wisconsin; Concordia Senior Col-
lege, Fort Wayne, Indiana (B.A., 1959); Concordia Theological Seminary,

SALLY TUCKER ALLEN, M.S., Assistant Professor of Nursing
Hampton Institute (B.S., 1959); Hunter College (M.S., 1968).

KATHRYN ESPI 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
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).

†ALAN J. ATHA, Ph.D., Visiting Assistant Professor of Education
Taylor University (A.B., 1963); Indiana State University (M.S. Sp. Ed.,
1964; Ph. D., 1969).

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

SIMONE FRANCOISE BAEPLER, Lic. es L., Assistant Professor of Foreign Lan-
guages
University of Bordeaux; Lindenwood College; La Sorbonne, Paris (Licence
es-Lettres, 1954); The University of Chicago.

RICHARD LAWRENCE BALKEMA, M.A., Assistant Professor of Government
Western Michigan University (B.A., 1962; M.A., 1963); Southern Illinois
University.

LOUIS FRANKLIN BARTLET, JR., LL.M., Professor of Law
Marquette University; Valparaiso University (A.B., 1944; J.D., 1947); Yale
University (LL.M., 1954); University of Wisconsin.

B. GENE BARTOW, M.S. in P.E., Associate Professor of Physical Education
Northeast Missouri State Teachers College (B.S. in Ed., 1952); Washington
University (M.S. in P.E., 1957); University of Southern California.

EMORY G. BAUER, M.A., Professor of Physical Education
Valparaiso University (A.B., 1934); University of Colorado; State Univer-
sity of Iowa (M.A., 1939).

†Summer Session only.
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).

RONALD WALLACE BAUMANN, M.A., Instructor in Theology
Concordia (Junior) College, Milwaukee, Wisconsin; Concordia Senior College (B.A., 1960); Concordia Theological Seminary, St. Louis, Missouri (B.D., 1964); Washington University; The University of Chicago (M.A., 1968).

JILL PELAEZ BAUMGARTNER, M.A., Instructor in English
Emory University (B.A., 1968); Drake University (M.A., 1969).

RUDOLF HEINRICH GEORGE BEILFUSS, M.B.A., Instructor in Finance

WILLIAM HORST BEILFUSS, M.S., Director of Youth-Leadership Training Program, Instructor in Social Work
Valparaiso University (B.A., 1963); Purdue University (M.S., 1969).

MEREDITH WILLIAM BERG, Ph.D., Associate Professor of History
St. Olaf College (B.A., 1959); Tulane University (M.A., 1962; Ph.D., 1966).

JAMES A. BERNARD JR., B.B.A., Assistant Professor of Economics
Manhattan College (B.B.A., 1965); University of Notre Dame.

ROBERT MILES BERRY, Ph.D., Assistant Professor of Psychology
University of Arkansas (B.A., 1960; M.A., 1967; Ph.D., 1969); California State College at Long Beach

EUNICE JANE BETTS, M.S., Assistant Professor of Physical Education
Franklin College of Indiana (A.B., 1962); University of Southern Mississippi (M.S., 1965).

BRIAN R. BETZ, M.A., Assistant Professor of Speech and Drama
St. Meinrad College (B.A., 1955); St. Meinrad School of Theology (S.T.B., 1959); Northwestern University (M.A., 1962).

WILLIAM WILEY 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.

ERNST WILLIAM BODENSTAB, Ed.D., Assistant Professor of Education
Union College (A.B., 1940); Syracuse University (M.S., 1941); State University of New York at Buffalo (Ed.D., 1967).

HANS BOEHRINGR, S.T.M., Assistant Professor of Theology
Concordia Collegiate Institute (Diploma, 1948); Concordia Theological Seminary, St. Louis, Missouri (B.A., 1950; Diploma, 1953; B.D., 1958; S.T.M., 1964); Valparaiso University.

GILBERT M. BOEREMA, Part-time Instructor in Music
Cosmopolitan School of Music. Private study.

LEONA KATHERINE BOEZEMAN, B.M., Part-time Instructor in Music
American Conservatory of Music (B.M., 1965).

WILLIS DOLMOND BOYD, Ph.D., Professor of History

RICHARD H. W. BOURGER, M.S. in Art Education, Associate Professor of Art, Curator of the Sloan Galleries of American Paintings
Valparaiso University; Institute of Design of Illinois Institute of Technology (B.S. in Visual Design, 1951; M.S. in Art Education, 1960); DePaul University; Northwestern University.

DANIEL CARL BROCKOFF, S.T.M., Assistant Professor of Theology
Concordia Teachers College, River Forest, Illinois; Concordia Theological Seminary, Springfield, Illinois (Diploma, 1961); Lutheran School of Theology at Chicago (S.T.M., 1966).

RICHARD ROBERT BROECKER, B.A., Part-time Instructor in Social Work
Valparaiso University (B.A., 1952); Wayne State University; Chicago Lutheran Seminary; The University of Chicago; University of Notre Dame.

RUTH EILEEN BROWN, Ph.D., Professor of Physical Education
Miami University (B.S., 1948); MacMurray College for Women (M.S., 1949); Florida State University (Ph.D., 1965).

MARSHA LEE BRUGGEMAN, M.A., Instructor in English
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ERWIN JULIUS BULS, M.S., Associate Professor of Geography
Concordia Teachers College, Seward, Nebraska (Diploma, 1927); Valparaiso University (A.B., 1937); The University of Chicago (M.S., 1944).

MARGARET S. BURNS, J.D., Administrative Assistant to the Dean of the School of Law with rank of Assistant Professor
Valparaiso University (J.D., 1927).

VERA ROSE BUSHING, B.L.S., Assistant Librarian with rank of Assistant Professor
Valparaiso University (B.A., 1946); The University of Chicago (B.L.S., 1947); Indiana University.

RICHARD RUDOLPH CAEMMERER, JR., M.F.A., Associate Professor of Art

TERRENCE J. CAREW, M.A., Instructor in Government
Loras College (B.A., 1961); University of Notre Dame (M.A., 1966).

KEMNET H. CARLSON, Ph.D., Professor of Mathematics
Upsala College (A.B., 1939); State University of Iowa (M.S., 1941); University of Wisconsin (Ph.D., 1954).

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

FRANK A. CEZUS, M.A., Instructor in Mathematics
Fordham University (B.A., 1966); University of Wisconsin (M.A., 1967).

H. PAUL CHALFANT, Ph.D., Assistant 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).

Footnotes:
3. Fall Semester only.
W. Beau Christian, M.A., Part-time Instructor in English
Oklahoma State University (B.S., 1964); Valparaiso University (M.A. in L.S., 1967); Purdue University.

Ingrid Christiansen, M.A., Instructor in English

Daniel Charles Cilo, M.A., Instructor in Foreign Languages
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.

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

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

David Jay Coons, M.S.I., Instructor in Management and Marketing, Assistant to the Dean of the College of Business Administration
Northwestern University (B.S.J., 1965; M.S.I., 1966).

Thomas C. Cooper, M.A., Instructor in Foreign Languages
Oberlin Conservatory of Music; Indiana University (A.B., 1964; M.A., 1967); Universität Würzburg, Germany.

William Martin Cross, M.A., 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.

Richard Carmen Crossman, M.A., Visiting Instructor in Theology
Wittenberg University (A.B., 1961); Hamma School of Theology (B.D., 1964); The University of Chicago (M.A., 1967).

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

Jacklyn 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.

Palmer Arthur Czamanske, A.M., Associate Professor of English
Concordia Teachers College, River Forest, Illinois (Diploma, 1929); Valparaiso University; The University of Chicago (Ph.B., 1931; A.M., 1949); Northwestern University.

William Charles Dallman, M.A., Assistant Professor of Speech and Drama

William Herbert Dauberman, M.S. in E.E., Associate Professor of Electrical Engineering
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; Professioal Engineer (Pennsylvania, Indiana).

VALPARAISO UNIVERSITY

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LOUIS ASHLEY FOSTER, Ph.D., Dean of the College of Arts and Sciences, Associate 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, University of Wisconsin (B.S., 1962; M.F.A., 1965).

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, CARL F. GALOW, M.S., Part-time Assistant Professor of Mathematics, Monmouth College (B.S., 1951); McCormick Theological Seminary (B.D., 1954); 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).

VERA THERESA HAIN, 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., 1953); University of Delaware; Roosevelt University; Syracuse University; Cornell University.

JOHN WALTER HARRIS, Ph.D., Assistant Professor of Psychology, Valparaiso University (B.A., 1963); Illinois Institute of Technology (M.S., 1965; Ph.D., 1969).


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.

HERBERT CARL HEDSTROM, M.A., Part-time Instructor in Music, Indiana University; University of Iowa (B.M., 1964); University of Arkansas (M.A., 1965).


JOHANNES HELMS, Ph.D., Associate Professor of Foreign Languages, University of Arkansas, B.A., 1953; University of Michigan (M.A., 1954; Ph.D., 1963).

KARL HENRY HENRICH, 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.

PAUL L. HERSHEY, M.A., Instructor in English, Michigan State University (B.A., 1965; M.A., 1968); The University of Rochester.

Spring Semester only.

Spring Semester only.

1Spring Semester only.

2Fall Semester only.

3From June 16, 1966 to December 31, 1966, Dean of the College of Business Administration.
WILLIE L. HERZFELD, Part-time Instructor in Theology
Immanuel Lutheran College (Diploma, 1961).

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).

ARLIE MERRIL HICKS, M.A., Instructor in English
Wisconsin State College, Whitewater; Midwestern University (B.A., 1965;

DAVID ALAN HIGBIE, M.A., Instructor in Foreign Languages
University of Michigan (B.A., 1963; M.A., 1965); Universidad Nacional
Autonoma de Mexico.

† 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 HILLILIA, 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, Adelaidea, Australia (Diploma, 1912); Con­
cordia Theological Seminary, Adelaidea, Australia (Diploma, 1915); Trinity
College of Music, London (License, 1916); Leipzig Konservatorium der
Musik — Kirchenmuskalisches Institut (Diploma, 1927); Luther College
(Mus.D. [Hon.], 1958); Concordia Theological Seminary, St. Louis, Mis­

SANDRA LEE HOFFMANN, M.A., Instructor in Speech and Drama

CARL BLAIR Housley, Ph.D., Assistant Professor of Economics
East Tennessee State University (B.S., 1962); Florida State University
(Ph.D., 1969).

RAYMOND LEWIS HOWELL, D.D.S., M.A., Instructor in Foreign Languages
Northwestern University (D.D.S., 1921); Indiana University; Roosevelt
University (M.A., 1964); International Academy of Spanish, Saltillo,
Mexico; Centro de Formacion Intercultural, Cuernavaca, Mexico.

† 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 (B.D., 1936; D.D. [Hon.],
1968); Wayne State University (A.B., 1938); University of Michigan
(M.A., 1937); Northwestern University (Ph.D., 1944); Concordia Teachers
College, River Forest, Illinois (LL.D. [Hon.], 1964).

HOWARD KIBBLE HUGHES, Ph.D., Visiting Professor of Mathematics
State University of Iowa (A.B., 1923; M.S., 1924); University of Kansas;
University of Michigan (Ph.D., 1930).

20 VALPARAISO UNIVERSITY

21 FACULTY

NORML 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.

WILBUR HOVER HUTCHINS, A.B., LL.B., Associate Professor of Accounting and
Finance
Western Michigan University (A.B., 1934); University of Toledo (LL.B.,
1942).

MATTHEW S. IKEA, M.A. in L.S., M.A., Assistant Professor of Psychology
Tokyo Bible Seminary; Cincinnati Bible Seminary (A.B., 1953); Lincoln
Christian Seminary (B.D., 1966); Valparaiso University (M.A. in L.S.,
1966); The University of Chicago (M.A., 1970).

ROBERT LESLIE ISBELL, M.S. Ed., Associate 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).

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

† JEFF GRIFFITH JOHNSON, Ph.D., Associate Professor of Sociology
California Concordia (Junior) College; Concordia Theological Seminary,
St. Louis, Missouri (B.S., 1936); St. Louis University; Washington Univer­
sity; University of California at Los Angeles; University of Southern Cali­

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

ALAN CLAUDE JULSHE, M.A., Part-time Instructor in Foreign Languages
Valparaiso University (B.A., 1964); University of Freiburg, Germany;
Colorado University (M.A., 1966).

† THEODORE ROBERT JUNGEKONZ, 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, Ger­
many; University of Wisconsin; Central Missouri State College; University
of Kansas.

IDA P. KAIN, M.A.S.W., Part-time Instructor in Social Work
Indiana University (B.A., 1949; M.A.S.W., 1954); University of Missouri;
The University of Chicago (Advanced Certificate in Social Service Admin­
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*Spring Semester only.

**On sabbatical leave, Spring Semester.

*Part-time Instructor Fall Semester only.


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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 Evangelical Lutheran Synodical Conference of North America, now owns and controls the University. The past quarter century of development has made Valparaiso a medium sized institution, capable of educating several 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 over fifteen thousand inhabitants. Porter County, of which it is the county seat, is a prosperous agricultural region adjoining the industrial communities of the Calumet District. The Lincoln Highway and three railroads, the Pennsylvania, the Grand Trunk and the Nickel Plate, pass through Valparaiso.

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. The proximity of the Beatty Memorial Hospital at Westville offers opportunities for observation and laboratory experience to advanced students in such areas as education, psychology, sociology, and recreational activities.

Since Chicago can be reached in less than an hour by 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 American Council on Education, the Association of American Colleges, the Council on Social Work Education, and the Lutheran Education Association.

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

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

The College of Nursing is accredited by the Indiana State Board of Nursing and Nursing Education and is an agency member of the National League for Nursing and the NLN Council of Baccalaureate and Higher Degree Programs.

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

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

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

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

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

A pastoral ministry is carried on in the residences. Group study and devotions are often arranged among those who live together. Many ques-
tions are faced and discussed in wide-ranging evening programs in the undercroft of the Chapel. The pastoral staff of the Chapel is available for members of the University community at any time. A pastor is at the Chapel every evening through the week. Every courtesy is extended to churches of the city of Valparaiso to do pastoral work among students of their 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, such as wilful or habitual disregard of college regulations, gambling, inebriety, any form of impurity, the continued use of profane or obscene language, and dishonesty in the classroom and in campus relationships, 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 conduct may involve destructive criticism and habitual opposition to plans, policies, and operation of the University.

**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.

The University Counseling Service is conducted by a full-time professional psychologist. The psychologist is available, upon request, to any person or group connected with the University who wants personnel services which are (1) more confidential, (2) more extensive, and (3) more specialized than those offered by faculty, deans, advisers, house directors, and dormitory counselors.

Most of the psychologist's time is spent in interviews which concern temporary and transient personal situations involving adjustment to social and academic life of the University. However, persons with special emotional problems may arrange for regular therapeutic sessions.

The University Counseling Service functions as an administratively independent office. Its records routinely are kept separate and confidential, but they are freely available whenever a counselee requests their release for cooperative discussion with faculty, deans, parents, and other persons.

The University employs a part-time psychiatrist and a part-time psychiatric social worker. Students who are in need of these services are referred to these specialists through the University Physician. In case of necessity for extended care, the student or the parents will have to assume the cost for specialized treatment.
The Placement Office offers assistance to Valparaiso graduates in securing employment. As a member of National College Placement Associations, the University has close contact with a wide variety of businesses, industries, and government agencies throughout the country. Each year, a large number of companies and agencies send representatives to the campus in order to interview seniors.

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

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

The Teacher Placement Office gives assistance to beginning and experienced teacher candidates who have completed requirements for certification under the supervision of the Department of Education in Valparaiso University. The Co-ordinator of Student Teaching also directs the Teacher Placement Services for the 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

### 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 make his major and minor selections. If the choice is postponed, the student must take courses which fulfill Lower Division requirements. The failure to take courses which anticipate the requirements of some fields of study may lengthen the time needed to complete the 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 approved by his general or his major adviser at the beginning of each semester before his schedule of courses is filed with the registrar. Subsequent changes in his schedule must also be approved by the student’s adviser.

### 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
- 1964 Edward A. Seegers
- 1966 Alfred C. Munderloh
- 1970 Robert C. Moellering
- 1971 Walter H. Gross
- 1965 Walter H. Gross
- 1967 W. H. Schlueter
- 1969 Alfred C. Munderloh
- 1972 Robert C. Moellering
- 1974 Walter H. Gross
- 1978 Walter H. Gross
- 1980 Walter H. Gross
- 1982 Walter H. Gross
- 1984 Walter H. Gross
- 1986 Walter H. Gross
- 1988 Walter H. Gross
- 1990 Walter H. Gross

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

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

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

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

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

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

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

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

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

Delta Theta Phi Scholarship Award
An annual award presented by Rentner Senate of the Delta Theta Phi Law Fraternity to the pre-law student who has the highest average in all collegiate work taken at Valparaiso University at the completion of his seventh semester in the College of Arts and Sciences, provided that the student has completed at least four of the seven academic semesters at Valparaiso University.

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

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

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

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

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

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

The Union Board of the Student Senate sponsors a variety of social events and programs for the enjoyment of the student body.

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

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

Week of Challenge Committee develops programs during the year which bring various personalities onto campus to speak on chosen themes in the arts, social concerns, and other cultural and intellectual areas.

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

Honorary Societies:
Alpha Lambda Delta—Freshman women, Alpha Pi—Senior men, Alpha Psi Omega—Drama, Aurora—Junior women, Eta Sigma Phi—Classics, Gamma Theta Upsilon—Geography, Junior Men's Honor Guard, Kappa Delta Pi—Education, Mortar Board—Senior women,
Valparaiso University is a member of The Indiana Intercollegiate Athletic Association, the Indiana Collegiate Conference, the National Collegiate Athletic Association, and participates in the following college sports—football, basketball, baseball, tennis, golf, track, wrestling, swimming, and cross country. The Director of Athletics is responsible to the President of the University in the administration of the program within the framework of policies established by the Faculty Committee on Intercollegiate Athletics. Academic eligibility rules which govern membership on the various athletic teams are established by the faculty. All men who have won the athletic letter "V" through participation in college athletics make up the Varsity "V" Association.

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

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

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

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

The work in dramatics is built around two objectives. First, to provide a program which is enriching in a cultural way. Through active participation in plays, students become acquainted with great drama of the past and present, and consequently develop a sound critical sense. Secondly, to give students practical training in acting and in all phases of play production, including experience in various aspects of personnel management and in modern advertising.

The University Players present publicly each year five full length plays. These major productions are supplemented by one-act plays, most of which are classroom productions directed by students in play directing.

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

A chapter of Alpha Psi Omega, national honor society in dramatics, recognizes by invitation to membership those students whose work has been outstanding in the University theatre. Many of the productions of the University Players are given in the Workshop Theatre located in Kroencke Hall. This theatre is well adapted to intimate drama, theatre-in-the-round, and experimental plays. In this building are also found the classrooms, studios, and laboratories of the Department of Speech and Drama.

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

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

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

*Gown and Gavel*, a chapter of Mortar Board, national honor society in leadership for senior women, not only encourages and later recognizes leadership among women students, but also serves the University in helping to realize academic, social, cultural, and spiritual objectives. Among its many important projects are the tutoring system, Awards Day, the sophomore women's honor society known as Aurora, and participation in the Week of Challenge.

*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 is a select group of sixty singers who perform the finest in choral literature both sacred and secular. The Schola Cantorum provides the same choral training for singers with limited experience. 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. Valparaiso University has served as headquarters for the University Composers Exchange since 1951. Tours by the University Band and the University Choir have become annual events. University choirs toured in Europe in 1963 and 1965.

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.

*Associated Women Students*. All women students automatically become members of A.W.S. upon registration at Valparaiso University. This organization fosters and promotes a spirit of unity and mutual helpfulness among the women students and between them and other members of the University family. A.W.S. sponsors various co-curricular activities including the Big-Little Sister Program, all-campus dance, Chicago bus trips, cultural lectures, Miss Valparaiso University Pageant, and the Best-Dressed Woman contest.

*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 in the tradition of the Scout Oath and Law, to develop 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 and provides a Travel Bureau and Employment service for the students. Although Alpha Phi Omega is a service fraternity, its program contains many social events. Membership in this, the largest national 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 Intersorority Council. The Dean of Men is the official adviser to the fraternities and the Interfraternity Council.

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

**SOCIAL ACTIVITIES**

The University believes that a sound and interesting social program is an important part of student life. For that reason, it has appointed a Director of Social Activities, who acts as general adviser for all social events. Students share in the responsibility of arranging the all-campus social program through the Union Board. In the various residence halls, there is a well-rounded social program under the supervision of the resi-
contribute to a well-rounded social program. Student organizations, including Student Senate and the publications, have offices in the Union building. Parties, picnics at the Dunes State Park, tennis. Meeting rooms are available for all groups and most of the main student organizations, including Student Senate and the publications, have offices in the Union building. Parties, picnics at the Dunes State Park, ski trips, concerts by professional groups, a series of films, and other activities contribute to a well-rounded social program.

THE SLOAN GALLERIES OF AMERICAN PAINTINGS
The Sloan Galleries of American Paintings and its extensive collection of works by American artists are located in the Henry F. Moellering Memorial Library. This collection and a fund for its maintenance and expansion were gifts to the University from Spencer and Percy H. Sloan in memory of their parents, Junius R. and Sara L. Spencer Sloan. Approximately four hundred paintings in this collection are in constant exhibition throughout the campus as well as in the Galleries, making a significant contribution to the cultural life of the students. The Galleries, in addition to exhibiting works from the collection, maintain a schedule of exhibitions representing various aspects of American art. It is in this way that the University, through the generosity of the late Percy H. Sloan, promotes and encourages interest in art and displays its concern for the cultural welfare of its students.

The Committee on the Sloan Fund, charged with administering the collection and fund, is composed of Professor Albert Wehling, Chairman; Vice-President Harold A. Gram; Professor Walter Friedrich; Professor Vera T. Hahn; Professor John Strietelmeier; Associate Professor Byron Ferguson; Associate Professor Richard Brauer; and Mr. Louis P. Miller, Trustee.

Associate Professor Richard Brauer is the Curator of the Galleries.

UNIVERSITY LIBRARY FACILITIES
The Henry F. Moellering Memorial Library. The general library of the University contains over 325,000 items, including 220,000 standard volumes, 20,000 government publications, 44,000 pamphlets, and over 20,000 bound volumes of periodicals. The library also holds 750 reels of microfilm and 5,000 units of microcards. Microfilm and microcard readers are available.

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

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

The Instructional Materials Center of the University is administered by the Director with the help of student aides. All types of audio-visual equipment including TV are available for classroom use from the Center.

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 lecture room, laboratory, and office of the Department of Geography. The other three floors are devoted to lecture rooms, laboratory rooms, and offices of the College of Business Administration.

5. The Faculty Club was formerly the old Book Store. On the second floor are located two seminar-type classrooms.

6. Flint House, south of DeMotte Hall, is a former residence which has been remodeled to provide lecture and seminar rooms for small classes, and to provide for a number of departmental offices.

7. Heimlich Hall, formerly the biology building, is a two-story brick structure containing general-purpose classrooms.

8. Heritage Hall is centrally located. It contains administrative and faculty offices, a large general classroom, a small psychology classroom, and a student lounge. The editorial office of The Cresset is also located in this building.

9. Kinsey Hall contains administrative offices on the first floor and studios and classrooms of the Department of Music on the two upper floors. Recital Hall, on the third floor, is used for small musical events and meetings of all kinds.

10. Moody Laboratory, completed in 1946, is a modern one-story structure housing the laboratories of the Department of Psychology.

A number of residence halls and service buildings are located on or near the West Campus of Valparaiso University. These include:

1. Altruria Hall, a residence hall for upperclass women. Cooking facilities are available. The room only fee is $170.00 per semester.

2. Dodge Hall, a residence hall for upperclass men. The room only fee is $160.00 per semester.

3. Stiles Hall, with a long history as a privately-managed student residence, was purchased by the University in 1946 and renovated and fitted with a number of apartments for faculty and administrative personnel.

4. Lembke Hall, contains faculty offices and a laboratory for the Department of Art in the south wing. The north wing is a residence hall for upperclassmen. The room only fee is $170.00 per semester.

5. Fraternities. In 1969, six dormitory-residences, housing 50 men each, were constructed as part of the University's dormitory system and made available for use by fraternities.

EAST CAMPUS

Plans for a complete new campus, a center of Lutheran higher learning, have been drawn up by authority of the Board of Directors. All new buildings are being located on the East Campus in accordance with a master plan of development approved by the Board of Directors.

1. Chapel of the Resurrection. Funds received from members of the Lutheran Church-Missouri Synod, the Alumni, the Valparaiso University Guild, and individuals have provided the financial means to permit construction of a campus chapel accommodating over three thousand persons. This structure was first used in the fall of 1958 and 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 call to worship and the passing hours with the notes of a 61-bell electronic carillon, a gift of the University Guild.

The Fred and Ella Reddel Memorial Organ was dedicated in the Chapel of the Resurrection on September 27, 1959. The organ has 70 ranks at present with a maximum future capacity of 104 ranks. Console of the organ is moveable and included in the instrument's more unique features is a 61-pipe copper Trompeta Real.

The West Chapel window, a gift of Mr. and Mrs. Richard E. Meier, rises more than 55 feet in the center of the West front of the Chapel and contains more than 3,400 pieces of exquisitely colored German glass. Crafted in Cologne, Germany, the window is of mouth-blown European antique glass which permits the light to enter but does not permit glare.

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

The pulpit in the Chapel was given by the family of the Reverend Louis G. Nuechterlein as a memorial to his ministry. The altar and altar rail were gifts of Mr. and Mrs. Len C. Heine.

The "Christus Rex," a symbolical representation of Christ's victory over death, is a memorial gift to Miss Elizabeth Selle, a former student at the University.

The Baptistry, located at the foot of the circular staircase to the south of the narthex, includes a five and one-half ton font made of one block of Rockville granite. Beside the font is a pascal candlestand of torch-fired bronze. A sculpture, 17 feet in height also made of torch-fired bronze, hangs over the font.

The Chapel office is located off the west side of the narthex.

Mr. and Mrs. A. J. W. LeBien provided the funds for the Baptistry and the Chapel office, while some objects in this area are individual memorials. The LeBien's have also given an endowment fund the income from which is to be used for lectures on Liturgy and the printing of brochures related to the Chapel.

2. The Henry F. Moellering Memorial Library. The new University library was 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 Lilly Endowment, Inc., of Indianapolis, and Kresge Foundation of Detroit. It is a two-story structure with three stack levels; reading space is provided for 500 readers and volume capacity is in excess of 200,000 volumes. The main level consists of two large reading rooms, lobby, circulation desk, catalogue file, lounge, offices, stacks, receiving room, and workroom. The lower level houses stacks, archives, seminar rooms, faculty lounge, visual aids, rare books, and an educational laboratory. The Sloan Galleries of American Paintings is located on the main floor.
and modern facilities for the storage and repair of paintings has been established on the lower floor. An addition to the building was completed in the fall of 1969 and provides space for one hundred sixty individual study carrels and stack space for approximately 70,000 volumes. There are several private carrels for use by graduate students and faculty members engaged in research.

3. Wesemann Hall. The new law building, occupied for the first time in the fall of 1963, will accommodate 200 students. The classroom wing includes two rooms, each with a capacity of 50 students, and a larger classroom-courtroom. Adjacent to the courtroom are a faculty lounge and seminar room which serve as judge's chambers and jury room when the courtroom is in use. The library wing contains a reading room, two levels of stacks for approximately 70,000 volumes, the librarian's office and workroom, eight double carrel alcoves, and eight private study rooms. A student lounge, typing room, and offices for student organizations are located in the lower level of this wing. The third wing of the building includes the offices of administration and ten faculty offices. In anticipation of increased enrollments in the future, the building was planned to permit expansion if increased facilities become necessary.

4. Valparaiso Union. The Valparaiso Union building was completed in May, 1955. Built of brick and concrete with wooden arches, the building is of modular design closely related to Gothic. The Union, which is completely air-conditioned, contains student offices, lounges, meeting rooms, and facilities for bowling, table tennis, billiards.

The Cafeteria, the Snack Bar, and private dining rooms are also located in the Union. Full length windows in the cafeteria overlook the East Campus and the surrounding countryside. While the Cafeteria is open only at meal times, the Snack Bar remains open during the operating hours of the Union.

Purpose of the Valparaiso Union is threefold. It is the center of activity for the campus community; it serves as an informal educational agency through its program and facilities; and, it provides a rounded and wholesome social, cultural, and recreational program.

5. University Book Store. An addition to the Valparaiso Union of 5,300 square feet was completed in 1960 to house the University Book Store. The University Book Store is owned and operated by the University for the convenience of students in the purchase of textbooks, school supplies, gift items, and miscellaneous merchandise and includes a United States government post office.

6. The President's Home. A dual purpose structure which serves as a combined university president's residence and a reception wing for official university functions was completed in the spring of 1960. The building, of brick, stone, and glass in tri-level design, is located on East Campus, south of the Valparaiso Union in the area immediately adjacent to the intersection of Linwood Drive and U. S. Highway 30. The president's private living area in the building is separated from the official reception wing on the main level by a centrally located kitchen.

7. The Chancellor's Home. Remodeled for use as the chancellor's home, this building was first occupied for this purpose in 1969.

8. Scheele Hall. Occupied in the fall of 1961, this building, a five-story residence hall, has been designed to accommodate three hundred twenty-eight sorority women on campus and to provide sorority-allocated space, allowing the greatest amount of organizational unity within the building.

Ground floor facilities include two dining rooms and kitchen, a common lounge, the house director's apartment, and an individual room assigned for the exclusive use of each sorority. Scheele Hall, financed by a government loan, provides room and board. The fee is $487.50 per semester.

9. Lankenau Hall. Occupied in the fall of 1964, this building adjoins, and is similar to, Scheele Hall. This residence hall accommodates three hundred forty-eight women and provides room and board. The fee is $487.50 per semester.

10. Wehrenberg Hall. Occupied in the fall of 1959, this residence hall is located on the far Northeast corner of the new campus. It is a four-story, Y-shaped brick and concrete building with a partial basement, housing three hundred and three students in two-man rooms throughout except where special arrangements provide housing for counselors and a number of three-man rooms. The sub-story of one wing provides room for a spacious lounge highlighted by a large fireplace, plus a small kitchen for refreshment preparation. A housemaster's apartment for family living is also located on this level. Comprehensive room and board fee is $487.50 per semester.

11. Brandt Hall. Occupied in the fall of 1962, it provides room and food service for three hundred forty-six men. This residence hall is a five-story structure and includes lounge rooms, a dining hall with a fully equipped kitchen, and a director's apartment. This structure is connected to Wehrenberg Hall by a rotunda dining room which also provides food service for the residents of Wehrenberg Hall. This residence hall and dining facility was financed by a government loan. Comprehensive room and board fee is $487.50 per semester.

12. Graland Hall. Completed in the fall of 1956, it is constructed of red brick and stone and features clerestory lighting. It contains the offices of the Division of Public and Alumni Affairs.

13. Kroencke Hall. Completed in 1952, it provides classrooms, a small auditorium, and laboratories for the Department of Speech and Drama, and some classrooms for use by the Department of Geography. The building of an addition to Kroencke Hall was completed during the summer of 1956. This addition, a wing on the southwest corner, is the same type of construction as the main building. The wing provides space for the Department of Speech and Drama classes in stage design, costume design, and make-up, in addition to providing storage for theatre properties and costumes.

14. The Art-Music Building. Formerly the Engineering Laboratory, completed in 1949, it had been designed, constructed, and financed by student members of the Engineering Society. This one-story building, now remodeled, is used by the Departments of Art and Music.

15. Guild Hall and Memorial Hall. These residence halls for women were built in 1947. Of modified Gothic architecture and constructed of
brick with Indiana limestone trim, the two L-shaped buildings are placed around a square landscaped court. These dormitories contain single, double, and triple rooms, prayer chapels, directors' suites, lounges, recreation rooms, and utility rooms. The room only fee is $170.00 per semester. Since the loss of the Auditorium Building by fire on November 27, 1956, the office of the Business Manager has been temporarily housed in the north wing of the ground floor. The office of the Registrar is now located in the south wing of the ground floor of Guild Hall. The Computer Center is located in the north wing of the ground floor of Memorial Hall.

16. Dau and Kreinheder Halls. Occupied in 1955; the two buildings were planned to provide living quarters for three hundred twenty-eight students. Octagonal in shape, these buildings contain rooms for two students, single rooms for counselors, a director's suite, a prayer chapel, and lounge rooms.

A lounge area connecting these two buildings and a dining room-kitchen facility to serve the residents of these two dormitories were completed in January 1965. Comprehensive room and board fee is $487.50 per semester.

17. Alumni Hall. Occupied in the fall of 1966, this residence hall, similar in construction to Lankenau Hall, accommodates three hundred forty-eight women and provides room and board. The fee is $487.50 per semester.

18. The Dean of The Chapel's Home. Occupied in the fall of 1964, this modern brick one-story residence includes a private study in order that the Dean could be available as a counselor in spiritual matters after office hours. The home is designed to entertain larger groups of students and people within and outside the University.

19. The Guild Center of Admissions. Occupied in the fall of 1965, the one-story building has facilities for the Director of Admissions, the Director of Financial Aid, and a conference room for the University's Board of Directors. In the late fall of 1969, an addition was completed which houses the office of the Dean of Student Services and the Placement Office.

20. The Julius and Mary Neils Science Center. Occupied in April, 1967, this building contains offices, laboratories, and research facilities for the Departments of Biology and Chemistry.

21. The Foreign Language Center. This building, with an ornamental center interior court, is a one-story brick structure which has 18 classrooms, a language laboratory with random control electronic equipment, and offices for faculty members. It was first occupied in February, 1968.

22. The Gellersen Engineering-Mathematics Center. This brick building contains all the offices, classrooms, and laboratories of the College of Engineering and the Department of Mathematics. It was first occupied in February, 1968.

23. The Education Building. This building, purchased from Immanuel Lutheran Church, Valparaiso, has been completely renovated for teacher education purposes and was first occupied by the Department of Education in September, 1968.

24. The Education Administration Building. This building, a former residence owned by Immanuel Lutheran Church, Valparaiso, has been renovated for faculty and administrative offices. This building was first occupied in September, 1967.

25. The Lake Home Economics Center. The exterior of the new building is red brick with irregular limestone pieces used around the main entrance area. A major portion of the structure is devoted to three large laboratory-classroom areas. Six offices complete the interior of the structure. It was first occupied in February, 1968.

26. Christ College. Occupied in January of 1970, this building contains offices, classrooms, seminar rooms, a lecture-theatre room, and a dining-meeting area with attached kitchen for use in the Christ College Program. The lower level also contains classrooms and seminar rooms for general use.

27. Le Bien Hall. The College of Nursing building, located less than one block from Porter Memorial Hospital, contains large lecture-demonstration classrooms, a multipurpose room, seminar rooms, offices, and lounges. It was first occupied in the fall of 1970.

28. The Gymnasium was constructed in 1939. It contains a large gymnasium, the office of the Director of Athletics, team rooms, locker and shower rooms, and offices for the departmental staff. A major expansion of the gymnasium was completed in the spring of 1963. Included in the expansion are the following: 1) a six-lane intercollegiate swimming pool; 2) over 2,000 additional seats for basketball games; 3) an auxiliary gymnasium; 4) a wrestling room; 5) multi-purpose rooms; and 6) added dressing rooms, offices, and public restroom facilities.

29. Central Power Plant for the East Campus. This building is a one-story brick and glass structure sixty feet by sixty feet, housing primary heating equipment. This plant serves present and future buildings on the East Campus. The building is attractively designed to blend with the projected future developments on the East Campus.

Adjacent to East Campus

Lutheran Deaconess Hall. The Lutheran Deaconess Association has since 1943 maintained in connection with Valparaiso University a training program for women who dedicate themselves to service in the church. The present dormitory, a structure completed by the Association in late 1957, houses sixty women. This building includes a chapel, facilities for meals, an apartment for the Staff Deaconess, and the office of the Executive Director. Funds received from the Lutheran Church-Missouri Synod "Building for Christ" collection and the Lutheran Women's Missionary League project grant have permitted construction of this building on land adjacent to the East Campus.

Alumni Campus

The Alumni Association acquired a fifty-two acre tract of land, south of and adjacent to the East Campus across U.S. Highway 30. This property was presented to the University as a Centennial gift in 1959. Five acres of the Alumni Campus have been deeded to the State of Indiana for purposes of a National Guard Armory. The Armory, completed in late 1960, is available for use by the University.
EAST CAMPUS FUTURE DEVELOPMENT

The University has acquired fifty-eight acres of property directly east of the East Campus across Indiana Highway 49.

The development of this land was begun in 1969 when eight intramural multi-purpose fields, a hard surface track, and a varsity baseball facility were constructed. Plans are being developed for additional physical education, intramural, and intercollegiate facilities.

EXPENSES*

UNDERGRADUATE AND PROFESSIONAL TUITION

<table>
<thead>
<tr>
<th>COLLEGE OR SCHOOL</th>
<th>EACH SEMESTER</th>
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<tbody>
<tr>
<td>COLLEGE OF ARTS AND SCIENCES—</td>
<td>$785.00</td>
<td>$1,570.00**</td>
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<tr>
<td>COLLEGE OF BUSINESS ADMINISTRATION—</td>
<td>785.00</td>
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<tr>
<td>COLLEGE OF ENGINEERING—</td>
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<tr>
<td>COLLEGE OF NURSING—</td>
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<tr>
<td>SCHOOL OF LAW—</td>
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<td>1,570.00</td>
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</table>

FEES

The general fee amounts to $82.00 each semester. This fee is paid by all full-time students registered for at least 10 credit hours. This fee is used to defray in part the cost of the following services: the University library, the program of intramural and intercollegiate athletics, membership in the Valparaiso Union and its building fee, the health service and student insurance plan, Student Senate (including *The Torch, The Beacon, The Lighter*, and Lyceum programs), special lectures and convocations, and a reserve fund for the expansion of the gymnasium and the eventual development of the Alumni athletic park.

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 per week of instruction of private or class lessons 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 semester. If the student is unable to complete within the semester the series of lessons for which he was assessed, a report should be made immediately to the chairman of the department by the student.

*Tuition and fees for part-time students

Undergraduate and Professional Programs

Students who register for no more than 9 credit hours are classified as part-time students.

Students who register for from 7 to 9 credit hours pay a tuition charge of $34.00 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 or participation in the student insurance plan.

Students who register for no more than 6 credit hours pay a tuition charge of $34.00 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 or participation in the student insurance plan, nor the Union building fee.

Auditors pay $34.00 per credit hour equivalent.

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

HOUSING REGULATIONS

University Regulations**—require all freshman and sophomore men to live in University residence halls. Junior and senior men may elect to live off campus in private housing. All women students are required to live in University housing; seniors or women 21 or older may waive this requirement by application to the Housing Director. An exception will be made for students desiring to live at home with parents or relatives.

Graduate, Law, and Married Students—may examine in person in the Housing Office a listing of rooms in private homes, apartments, and

*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 14 semester credits for each semester of the school year (7 semester credits in a summer session).

*Class standing is determined by academic standards.
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.

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. All checks should be made payable to Valparaiso University Association, Inc. A student who occupies a room in a residence hall will have $50.00 credited to his entire account. All returning students for whom the University can provide housing in its own residence halls, and who desire such accommodations for the fall semester, are required to make an advance room deposit of $50.00 on or before May 1.

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

Refunds—Of $25.00 will be given if a written notice of cancellation is received by the Housing Office on or before June 1 for the fall semester. No refund will be given after June 1. If a student is denied admission or readmission or if the University should be unable to provide housing, the full amount of the deposit will be refunded.

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

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

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

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

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

The University reserves the right to make changes in residence hall assignments if necessary for the most effective accommodation of the student body.

Dining Facilities

The University operates dining facilities for the convenience of its students in the Valparaiso Union and in several residence halls.

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

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

Estimate of Expenses

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

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>Average Cost</th>
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</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$785.00</td>
</tr>
<tr>
<td>General Fee</td>
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</tr>
<tr>
<td>Rent of Room and Board</td>
<td>$487.50</td>
</tr>
<tr>
<td>Lab. Fees, books, and supplies</td>
<td>$100.00</td>
</tr>
<tr>
<td></td>
<td>$1,454.50</td>
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</table>

<table>
<thead>
<tr>
<th>College of Business Administration</th>
<th>Average Cost</th>
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</thead>
<tbody>
<tr>
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</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.**

A time payment plan may be arranged with parents or guardians on tuition, music lessons and room, but not on fees and other similar items, which are always paid at the time of registration.

Application for making installment payments during a semester may be made in advance by writing to the Business Manager or may be made during the official registration period.

A small carrying charge of 50 cents for each $50.00 or fraction thereof will be collected on all amounts not paid at the time of registration to reimburse the University for extra cost of carrying and collecting such accounts. Accounts paid in full within the first thirty days of a semester will not be subject to this carrying charge.

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

**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 eight weeks after the first official day of registration of a semester. If a student is dismissed, there is no refund due. General, special, and laboratory fees are never refunded.

### Special Fees

- **Application Fee**—$10.00. This fee is payable at the time of application for admission to the University. It is not refundable.
- **Automobile Registration Fee**—$10.00.
- **Matriculation**—$5.00. This fee is payable once only, when the student registers in the University.
- **Make-up or Special Examination**—$1.00.
- **Change in Program**—$1.00, unless the change is required by the University. See “change in program” under “Registration.”
- **Graduation**—$10.00, payable at the time formal application for a degree is filed.
- **Developmental Reading Program Fee**—$25.00.
- **Transcript**—No charge is made for the first transcript issued. One dollar is required for each additional transcript. No official transcript of a student’s record is released until the student has met in full his obligations to the University.
- **Late Registration Fee**—$40.00. This fee becomes effective after the close of the last official day of formal registration. In no case will late registrants be exempt from this fee, unless for valid reasons they have been given written authorization for exemption by the Vice-President for Student Affairs.

### Student Senate Fees

The Student Senate has been entrusted with the management of certain student activities and the activities fee which is collected by the University each semester and is allocated to the Student Senate entitles the student (1) to the events and activities sponsored by the Union Board of the Student Senate; (2) to admission to most of the lectures and entertainments of the student lyceum; (3) to The Torch, which is published approximately sixty times and is edited by a staff appointed by the Student Senate; (4) to a copy of The Beacon, the students’ annual, which contains a comprehensive record of the year’s activities; (5) to The Lighter, a variety magazine, published approximately three times a year by a staff appointed by the Student Senate; (6) access to the Senate owned campus radio station.
EDUCATIONAL Opportunity Grants are awarded to students whose families can assist them and who are expected to maintain at least a C average at Valparaiso. Students who need financial assistance and who are expected to do better than average academic work may receive an academic grant.

ACADEMIC GRANTS
Financial aid consists of scholarships, grants, loans, and campus employment which may be offered to a student singly or in various combinations. The family of a student is expected to make a maximum effort to assist him with college expenses. Assistance awarded by Valparaiso should be viewed as supplementary to the effort of the family, and will not exceed the need of the candidate.

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

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

TYPES OF AWARDS

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

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

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

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

Educational Opportunity Grants
Provided for in the Higher Educational Act of 1965, Educational Opportunity Grants are awarded to students whose families can assist them to only a limited extent. The size of the grants varies from $200 to $1,000 according to the computed amount of parental contribution from income and assets.

Campus Employment
Students are employed on campus as departmental assistants, library workers, dormitory receptionists, typists, stenographers, maintenance workers, and cafeteria workers. Salaries range from $100 to $400 per academic year at the rate of $1.45 to $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 directions that a copy of it be mailed to the Valparaiso University Director of Financial Aid. This PCS may be secured from your high school or by writing directly to the College Scholarship Service, Princeton, New Jersey.

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

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

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

- **Honorary Citation.** $100.00 one-time awards—students with no need.
- **Aid Association for Lutherans.** Certificate-holding members—five four-year full-tuition.
- **Mr. and Mrs. Oliver W. (Emma) Allen.** Preministerial student—$600.00 annually.
- **Alpha Phi Delta Sorority.** Upperclass sorority member—$200.00 annually.
- **Alpha Xi Epsilon Sorority.** Upperclass sorority member—$300.00 annually.
- **Anna B. Althans.** Social work major—$200.00 annually.
- **Herbert C. Bartelt Scholarship.** Valparaiso University senior student who plans to enter the Lutheran Ministry by way of Concordia Seminary in St. Louis, Missouri or Springfield, Illinois.
- **Dr. and Mrs. Henry Frederick Beckman.** Resident of Indianapolis, Indiana—$400.00 annually.
- **William F. Boeger Memorial.** $175.00 annually.
- **(Mrs.) Amalie Bokerman.** Resident of Pennsylvania—$175.00 annually.
- **John V. Borgerding.** Resident of greater Pittsburgh or Pennsylvania—$175.00 annually.
- **Mr. and Mrs. Raymond Born.** Resident of Wisconsin, Plymouth and Sheboygan area preferably—$500.00 annually.
- **Brown Dairy.** Resident of Porter County, Indiana—$500.00 annually.
- **Julius C. Bruechner Scholarship.** Any student in need of assistance.
- **John E. Christian 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. (Myrtie E.) Eickstaedt.** $150.00 annually.
- **Robert Elmore Findling Memorial.** Engineering student—$100.00 annually.

### General Information

- **First Federal Savings and Loan Association of Valparaiso.** Porter County, Indiana resident—$500.00 annually.
- **First National Bank, Valparaiso—Portage Branch.** Resident of Porter County, Indiana—$450.00 annually.
- **Dr. and Mrs. E. C. Galsterer.** Resident of Saginaw, Michigan or Saginaw Valley—$500.00 annually.
- **Gamma Phi Sorority.** Senior member of that sorority—$250.00 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.
- **Grace Fund Scholarship.** Resident of Cleveland—$250.00 annually.
- **The Henry C. and Ura E. Guhl.** $200.00 annually.
- **Hardt Foundation.** Pre-medical student—$500.00 annually.
- **Charles G. Hauser.** Children of employees of Litchfield Creamery Company, Missouri, or child of Missouri Synod Lutheran pastor at Litchfield—two awards—$250.00 annually.
- **Mary Hilgemeier.** Member of Emmaus congregation, Indianapolis, Indiana—$200.00 annually.
- **The Clara A. Holeman Scholarships.** Varying amounts for needy students in the fields of chemistry and medicine.
- **Ferdinand and Oscar Homann.** Residents of Illinois—two awards—$600.00 annually.
- **Indiana Highway Constructors, Inc.** Civil Engineering student for residents of the state of Indiana in varying amounts annually.
- **Indiana Home Economics Association.** $350.00 scholarship to upper-class student, rotated alphabetically among privately supported institutions that offer degree in Home Economics.
- **Judge and Mrs. F. A. Jaeckel Memorial.** $120.00 annually.
- **Richard F. and Martha W. Jeske.** $900.00 annually.
- **Edward Jiede, Jr.** $400.00 annually.
- **Mr. and Mrs. Emil Jochum.** Scholarships in varying amounts up to full tuition annually for students from Ohio, preferably Cleveland and vicinity.
- **Kappa Kappa Kappa.** Senior girl from Valparaiso High School—full-tuition annually.
- **Kappa Tau Zeta Sorority.** $100.00 annually.
- **Mr. and Mrs. Victor Kirsch.** $500.00 annually.
- **Koinonia Scholarship.** YLTP students in their last year of residence at the University—$300.00 annually.
- **William H. Kroeger.** Resident of Akron, Ohio—$250.00 annually.
- **Frederick William Kroenecke 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 $200.00 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.

Lembke Motor Inn. Resident of Northwestern Indiana—$225.00 annually.

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 Sand and Gravel Corporation. 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. Moellerling. Resident of Fort Wayne or Allen County, Indiana—$200.00 annually.

Northern Indiana Bank and Trust Company. Resident of Porter County—$1,250.00 annually.

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

Mollie V. Page. Member of Bethany Lutheran congregation, Waynesboro, Virginia—$100.00 annually.
Van Ness Electric, Inc. To underwrite the Semester on the United Nations—$250.00 annually.


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

Philip Wambgasans 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—$1,200.00 annually.

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

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

Central Ohio District. Outstanding candidate from district or son or daughter of a foreign Lutheran missionary—$350.00 annually.

Decatur, Indiana Zone. $300.00 annually.

Iowa District East. $500.00 annually.

Missouri District. $250.00 annually.

New England District. Student must also demonstrate excellent high school background and financial need. Full tuition annually.

Northern Indiana District. Full-tuition annually.

Southern Minnesota District. $250.00 a year for freshman and sophomore years.

Washington District. $300.00 annually.

**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.

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

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

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

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

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

*The Henry George Poncher Foundation* was designed to provide a revolving loan fund to be used for making loans to deserving college students who are taking a pre-medical course preparatory to entering medical school. 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 the office of the Vice President, Administration, Valparaiso University. Upon approval of application to The Fund, a loan not to exceed $1,000.00 may be made to a qualified student by the Board. Only students classified by their respective institutions as juniors or seniors will be eligible for loan assistance.

The Myra K. Tate Student Assistance Trust was established to provide loan benefits to certain students at Valparaiso University. This trust is administered by the Northern Indiana Bank and Trust Company as Trustee. The Trustee will consider applications from Engineering, Law, and Pre-Medical students who are in the last two years of their schooling at the University. Applications are received on recommendation of the Dean of the appropriate college or the Pre-Medical adviser and are processed through the Business Office of the University prior to being forwarded to the Trustee for consideration. Loans made for this trust are generally under $500.00 per academic year, and appropriate interest and repayment provisions are established by the Trustee at the time the loan is made. Interest starts and repayment provisions go into effect upon graduation or termination of attendance at Valparaiso University, whichever occurs earlier.

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

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

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

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

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

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

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

In addition to funds provided by special appropriation of the Board of Directors friends of the University who strongly believe in the principle of lending their resources to students in need have contributed to the

University Loan Fund. These contributors are:

M. E. Dinsmore Memorial
Frank B. Estell
Oscar Homann
Glenn Krabec
Aaron H. Kruse
The Lutheran Ladies Seminary
Anna and Bertha Meyer
Robert Miller Laboratory
Albert and Anna Raether Memorial
Mr. and Mrs. Henry J. Schneider
Mr. Werner Schroeder
Trinity Tool Company

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

REPAYMENT TERMS

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

The Fred Smoke Student Loan Fund, administered by the Valparaiso University Alumni Association, was established in January, 1965, and provides funds for loans to students who are residents of Porter County, Indiana. No interest accrues while the borrower is enrolled full time at Valparaiso University; two per cent interest begins when he leaves and increases to six per cent. A four year repayment schedule is called for by the terms of the promissory note.

The Washington Semester Program Loan Fund. Only students fully accepted for the Washington Semester Program at the American University are eligible. Loans up to one hundred dollars are given; the student is expected to repay the loan plus a donation to the principal of the fund of twenty-five per cent within five years after leaving the University.

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

TUITION EXCHANGE

Faculty Children's Tuition Exchange. Valparaiso University is a member of Tuition Exchange (with headquarters at Williamstown, Massachusetts). This is a plan under which children of teachers at participating colleges and universities may attend other member institutions without the payment of tuition.
Sons and daughters of college and university teachers who seek the grant of free tuition at Valparaiso should confer with the Liaison Officer for Tuition Exchange at the school where their fathers or mothers teach.

REHABILITATION GRANTS

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

THE VALPARAISO UNIVERSITY FEDERAL CREDIT UNION

The Valparaiso University Federal Credit Union is an organization whose membership is open to all students, members of the faculty, and employees of the University. Its purpose is to promote thrift and to provide a source of credit for its members. To become a member, one must pay an entrance fee of twenty-five cents ($0.25) and subscribe for at least one five-dollar ($5.00) share of stock. Payment of the entrance fee and the purchase of one share of stock entitles one to all the rights and privileges of full membership. Interest on loans is charged at the rate of three-quarters per cent (3/4% = 9% A.P.R.) to one per cent (1% = 12% 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 Bureau of Federal Credit Unions of the United States Government.

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 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 regular summer session of eight weeks on the undergraduate and graduate levels, begins on Monday, June 15, and terminates on Friday, August 7. Courses on the undergraduate level will be offered in the following subject matter areas: Accounting, Art, Biology, Economics, Education, English, Finance, Foreign Language, Geography, Government, History, Humanities, Management, Mathematics, Music, Philosophy, Physical Education, Psychology, Social Work, Sociology, Speech and Drama, and Theology.

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

The institute for junior high school teachers of mathematics, June 15 to July 31, the institute for secondary school teachers of biology, June 29 to August 7, and the cooperative college-school science program for the northwest Indiana high school social studies teachers, June 15 to August 7, offer graduate credit.

Valparaiso University also offers as an extension of the summer session of 1970 a European and Middle East Art Tour, July 2 to August 17, for six semester hours of credit in Art, and an Urban Problems Seminar conducted in Chicago for three or six semester hours of credit.

For further information write to: Director of Summer Session.

SUMMER SESSION FEES

June 15 to August 7, 1970

| Matriculation | $5.00 |
| Tuition per credit hour | 28.00 |
| General Fee | 15.00 |
| Private Music Lessons (Organ, Piano, Voice, String, etc.) | 30.00 |
| 16 30-minute lessons | |
| 8 30-minute lessons | 15.00 |
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 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

*Seniors wishing admission to the Graduate Division: A senior in Valparaiso University who has a standing of at least 3.00 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 courses designated for graduate 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.
**PROGRAM FOR MASTER OF ARTS IN LIBERAL STUDIES**

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

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

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

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

To be eligible for the Master of Arts in Liberal Studies, a student must complete at least thirty semester hours, distributed as follows:

1. A core of 14 semester hours consisting of:
   A. 10 semester hours in one subject-matter field (other than education), 7 semester hours of which must be taken at Valparaiso University, and;
   B. 4 semester hours in the courses entitled The Western Tradition I and The Western Tradition II.
2. 16 semester hours of electives (of which not more than 10 semester hours may be in education).

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

**PROGRAM FOR MASTER OF ARTS IN TEACHING**

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

- **B. 4 semester hours in the courses entitled The Western Tradition I and The Western Tradition II.**
- **Education 220 or 327** (3)
- **Education 200, 213, 283, or 284** (2)

**Academic Concentration:**

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

**Total minimum requirement** = 33 semester credits

**Minimum 300 Courses** = 15 semester credits

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

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

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

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

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

If a student receives a grade of Incomplete in any course that grade must be removed by the beginning of the official examination period of the next succeeding semester or it will automatically become an F.

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 eighth week of the semester or after the fourth week of an eight week summer session.

**INDEPENDENT STUDY**

With the permission of the chairman of the department concerned and of the Graduate Council, a student may earn up to three of the thirty semester hours required for the degree by means of an independent-study project resulting in a paper. No student may apply for permission to under-
take an independent-study project until he has satisfactorily completed at least twelve semester hours of his approved Master of Arts program.

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

No student may register for an independent study project during the final summer session of his program and no student should expect to start and complete an independent study project in one summer session.

TRANSFER CREDITS

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

APPLICATION FOR GRADUATION

To receive the Degree of Master of Arts from Valparaiso University a student must make formal application to the Director of Graduate Division within the first week of the term in which he expects to be graduated. He must give evidence that he has fulfilled all requirements for the degree and receive the approval of the Graduate Council. No student who has not made application for candidacy (see page 91) will be eligible for the degree.

CERTIFICATES FOR TEACHING

To prepare persons for teachers' certificates, Valparaiso University adapts the graduate programs, after reviewing the candidates' prior preparation, to the student's individual needs.

Each candidate for the Indiana Secondary School Certificate, Professional, must earn at least eight semester hours of graduate credit in each subject field he desires to professionalize.

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

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

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

*Grades of S and U are given for these courses in the Department of Biology.
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 nominated by the chief executive of his school.

2. A teacher in a parochial elementary or high school operated by The Lutheran Church-Missouri Synod will be granted a half tuition scholarship as will all deaconesses of The Lutheran Church-Missouri Synod.

3. Any Lutheran clergyman will be granted a half tuition scholarship.

4. Any clergyman enrolled in the graduate program with a concentration in theology will be granted a half tuition scholarship.

Candidates for these scholarships must apply for them on a form provided by the Director of Graduate Division. They must also apply, at each registration period, for a continuance of the scholarship aid, to the Director of Financial Aid. They must have been admitted into the graduate program.
Administrative Procedure
ADMINISTRATIVE PROCEDURE

GENERAL REQUIREMENTS FOR ADMISSION

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

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

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

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

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

ADMISSION TO ADVANCED STANDING

Students from other institutions seeking admission to Valparaiso University must apply for admission through the Director of Admissions at least three weeks prior to the official registration days of the session for which they are applying and must present evidence of honorable dismissal from the institution last attended. Applications will not be accepted after this date. Exceptions to this regulation may be made only for the summer sessions. A transfer student will not be given a Permit to Enter from the Director of Admissions until official transcript(s) , a completed medical report, and other required credentials are on file in the Admissions Office. In some cases, the Director of Admissions may require a personal interview before admission is approved. No advanced credit will be granted for courses completed with grades below "C" or the equivalent.

Credits earned more than fifteen years ago will be accepted toward graduation requirements on a provisional basis, subject to validation by first year's work (30 semester hours) completed in residence with a "C" average (1.00). The University reserves the right to reject any applicant for admission by transfer whose academic record is unsatisfactory.
Credits earned in secretarial work (typewriting and shorthand) are not applicable toward any degree granted by Valparaiso University.

Students who enter with advanced standing because of credits transferred from another school must earn at Valparaiso University as many quality points as semester hours attempted in order to be eligible for a degree.

Advanced Placement

Valparaiso University is an active participant in the Advanced Placement Program of the College Entrance Examination Board.

Applicants for admission, who take one or more of these examinations in May, will receive actual credit toward a degree if their scores are "5" (High Honor) or "4" (Honor). Scores of "3" (Good) will be referred to the department heads concerned for evaluation and recommendation for credit or placement.

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 285 and 288 in the Law School Section of this bulletin.

Requirements for Admission to the College of Arts and Sciences

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

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

Requirements for Admission to the College of Business Administration

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

Requirements for Admission to the College of Engineering

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

Requirements for Admission to the College of Nursing

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

Requirements for Admission to the School of Law

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

No applicant will be admitted to the School of Law as a first-year student at a time other than at the beginning of a fall semester. Persons who desire to be admitted with advanced standing must comply with existing regulations.

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

For detailed requirements for admission to the School of Law, see page 284.

Requirements for Admission to the Graduate Program

For detailed requirements for admission to the graduate program, see page 91.

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—

*Included in the 3½ units should be 1½ units of algebra, 1 unit of geometry, and ½ unit of trigonometry. Business, general, or shop mathematics may not be counted.
these students usually spend one year in in-service training) has interrupted his studies must apply for readmission to the University through the Re-
admissions 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.

Change of Program—During the first week of the semester, changes of enrollment may be made with the written approval of the student’s adviser and the department chairman involved. One week after the beginning of the semester students may not add courses or change sections. 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 student’s adviser, of the instructors concerned, and of the appropriate department chairman, to withdraw from a course with a grade of W up to and including the end of the sixth week of a semester. After the sixth week of a semester, 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.

Students who wish to drop courses after the first week of the semester should read the regulations regarding grades of W and F. Application for changes in enrollment must be made by the student on proper forms and filed at the office of the registrar.

A change-of-enrollment fee of $1.00 is payable by each student for each subject dropped after the beginning of the second week of the semester or session, unless the change is required by the University.

Admission to Courses on a Satisfactory/Unsatisfactory Basis—An undergraduate student who has attained junior standing may elect to take one quality graded course (graded A, B, C, D, F) each semester (for a maximum of four semesters) on a Satisfactory/Unsatisfactory basis, subject to the following conditions:

1. Such courses may not be selected from:
   a. the student’s major field;
   b. the student’s minor field (those courses used to satisfy the student’s minor);
   c. the courses used to fulfill Lower and Upper Division requirements;
   d. the required curriculum for any degree or pre-professional program, except for liberal arts electives;

2. Such registration must be approved by the student’s adviser;

3. 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.

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 all students, except as otherwise provided in the special authorized curricula, is 17 semester credits; and the minimum registration of a full-time student is 10 semester 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 appropriate Faculty or University Senate Standing Committee. Freshmen will not be allowed to carry extra work during the first semester.
NUMBER OF CREDIT HOURS WITHOUT PETITION:

College of Arts and Sciences:
- In all departments except as required in special authorized curricula 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

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 sixth 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.

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.

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.

A student is charged a fee of $1.00 for each special examination. This fee must be assessed by the Registrar and paid to the Business Office before the examination can be given by the instructor.

SCOLASTIC 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>HOURS PREVIOUSLY UNDERTAKEN</th>
<th>MINIMUM CUMULATIVE GRADE-POINT AVERAGE REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing</td>
<td>Business Administration</td>
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<td>1-16</td>
<td>1-17</td>
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<td>17-32</td>
<td>18-35</td>
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<td>33-48</td>
<td>36-52</td>
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<td>49-64</td>
<td>53-71</td>
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<tr>
<td>65-80</td>
<td>72-89</td>
</tr>
<tr>
<td>81-up</td>
<td>90-up</td>
</tr>
</tbody>
</table>

The number of credit hours previously undertaken includes all credit hours undertaken by the student at Valparaiso University or elsewhere for which the student has received a grade other than W. The student's cumulative grade-point average is based on 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 289 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.
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 appropriate Faculty or University Senate Standing Committee permit a student to withdraw from a course without a grade of F after the end of the sixth week of the semester.

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

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

Grades of S and U are used in certain courses which are so designated in the course descriptions contained in the University Bulletin. (See page 104 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 128 semester hours will have 128 quality points, 128 credits, and a standing of one (1.0). An average mark of B will give the student 256 quality points, 128 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 all 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; 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 Nursing, a student must have 24 semester credits and 24 quality points to be classified as a sophomore; 56 semester credits and 56 quality points to be classified as a junior; 88 semester credits and 88 quality points to be classified as a senior.

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

CLASSIFICATION OF COURSES—The courses offered by the University are classified as (a) lower division courses, numbered 1-99; (b) upper division courses, numbered 100-199; (c) undergraduate-graduate courses, numbered 200-299; and, (d) graduate courses, numbered 300-399.

GRADUATION

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

A student in the undergraduate program may fulfill requirements for graduation under any catalogue during his years of attendance, beginning with the year he first entered the University, provided there is no absence of five or more years* between periods of attendance.

*Three or more years in the School of Law.
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.

Students who enter with advanced standing because of credits transferred from another school must earn at Valparaiso University as many quality points as hours attempted in order to be eligible for a degree. In the computation of a student's standing grades of F are included.

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 90 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 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 Mechanical Engineering, and Bachelor of Science in Electrical Engineering. Upon the recommendation of the Faculty of the College of Nursing, the University confers the degree of Bachelor of Science in Nursing. Upon the recommendation of the Faculty of the School of Law, the University confers the degree of Juris Doctor. Upon the recommendation of the Graduate Council and the Graduate Faculty, the University confers the degrees of Master of Arts in Liberal Studies and Master of Arts in Teaching. All work toward a degree must be completed to the satisfaction of the Faculty recommending the degree. In all cases, the student is responsible for meeting the requirements for graduation.

CREDIT AND QUALITY POINT REQUIREMENTS—Candidates for graduation with the baccalaureate degree must have a standing of one (1.0) in all their work at Valparaiso University (not including ensemble music, for which no quality points are given). In addition, candidates must have a standing of one (1.0) in their major field, or fields, based upon their work at Valparaiso University. In the computation of these standings grades of D and F are included. Candidates for the master's degree, see page 92.

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

*Three or more years in the School of Law.
PRESENCE AT COMMENCEMENT—A candidate must be present at commencement in order to receive his degree. Degrees are not conferred in absentia, except on special permission from the President.

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

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

2. Graduation "With Distinction." A student who has been in attendance at least three years and who has maintained a standing of 2.4 in his work at Valparaiso University will be graduated "With Distinction." A student who has been in attendance for only two years must maintain a standing of 2.6 to be eligible for this honor.

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

HONORS IN SCHOLARSHIP

An undergraduate student (Freshman, Sophomore, Junior, Senior) who achieves a standing of 2.5 in any semester will be awarded honors, provided that he received no grades of I or U at the official end of the semester concerned, and that he was registered for at least 14 hours of work for that semester in the College of Arts and Sciences (12 hours in the Washington Semester Program or the Semester on the United Nations or the Overseas Study Programs), for at least 12 hours in the School of Law, for at least 16 hours in the College of Engineering, for at least 14 hours in the College of Business Administration, or for at least 14 hours in the College of Nursing.

Students eligible for honors in scholarship are given special recognition at honors convocations. Graduating senior honors (baccalaureate degrees) are announced at Commencement and are based on the work of the last two semesters.

RESERVATION OF RIGHT TO AMEND RULES AND REGULATIONS

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

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

OBJECTIVES

The principal objective of the lower division courses is to offer the student a general education. Many of the courses of the lower division may serve also as tool subjects or as introductory courses to advanced work; but as far as possible the work of the lower division is kept within the objective of a broad cultural education.

The lower division courses have the following objectives:
1. To deepen the student's Christian consciousness of his duty toward God and man.
2. To aid him in becoming more proficient in the use of the English language.
3. To further his knowledge of English literature and to develop his appreciation of what is good in the fine arts.
4. To give him an opportunity to become acquainted with the languages and literatures of other nations.
5. To acquaint him with the physical and social world in which he lives.
6. To develop his ability to work and think independently.
7. To prepare him for the proper use of his leisure time.
8. To enable him to make an intelligent choice of a field of concentration in the upper division.
9. To offer him a number of pre-professional programs.
10. To further his physical well-being.

The upper division courses have as their objectives:
1. To continue the pursuit of the objectives of the lower division.
2. To offer the student advanced work in those fields of concentration for which the school has the proper facilities, and in which the enrollment justifies the offering.
3. To offer him a program of teacher training.
4. To prepare him for graduate work.

DEGREES AND DEGREE REQUIREMENTS OF THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences of Valparaiso University grants the following undergraduate 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.

Upon application, the degree of Bachelor of Science, instead of the degree of Bachelor of Arts, will be granted to a student meeting the requirements for the degree of Bachelor of Arts who has completed thirty-two semester hours in one of the following fields as his first major: chemistry, physics, mathematics, or biology.
In order to realize, in part, its objectives, the College of Arts and Sciences holds the student to the following degree requirements:*

**A. In the Lower Division (freshman and sophomore years):**

1. **Religion:** 6 semester credits.†
2. **English:** 12 semester credits.
   †Freshman year: Freshman Composition, 6 cr.
   Sophomore year: Survey of English Literature 51 or Introduction to World Literature 55, 3 cr., and Survey of English Literature 52 or Introduction to World Literature 56, 3 cr.
3. **Foreign Language:** 6-12 semester credits.
   The student must complete at least 6 semester credits of work above the first year level in any one language. This requirement may be met by special examination. (Optional for candidates for the degree of Bachelor of Science in Home Economics or Bachelor of Science in Physical Education.)
4. **Social Science:** 12 semester credits.
   These twelve credits must be taken in the following fields: economics, geography, government, history, psychology, philosophy, sociology.
   Six credits must be taken in one of the fields; the other six credits must be taken in either one or two of the other fields.
5. **Natural Science:** 16 semester credits.
   The sixteen credits required for graduation are to be divided equally between two of the following fields: biology, chemistry, physical geography, mathematics (must include one course in calculus), physics.
6. **Physical Education:** 2 semester credits.

**B. In the Upper Division (junior and senior years):**

1. **Religion:** 4 semester credits.†
2. **Major:** 24 semester credits.
   The student must complete a major of at least 24 semester credits in one field. The credits applied on a major should be predominantly on the upper division level.
3. **Minor:** 12 semester credits.
   The student must complete, in addition to his major, a minor of at least 12 semester credits in one field. The credits applied on a minor should be predominantly on the upper division level.

A major and a minor are selected from the fields listed under the College of Arts and Sciences. In addition, a student may satisfy the requirements for a major and a minor simultaneously by completing the special Program in the Humanities offered by Christ College. Also, he may satisfy the requirement for only a minor by completing the Minor in the Humanities or the Minor in Urban Studies listed under the offerings of Christ College as described in detail on page 225.

Except by special permission of the appropriate Faculty or University Senate Standing Committee, a student may not offer for graduation more than 40 semester credits in any one field.

More specific requirements for majors and minors are given in the announcements of the various departments.

More specific requirements for the degree of Bachelor of Science in Home Economics are given in the announcements of the Department of Home Economics on page 177 of this bulletin.

More specific requirements for the degree of Bachelor of Science in Physical Education are given in the announcements of the Department of Physical Education on page 195 of this bulletin.

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 announcements of the Department of Education on page 146 of this bulletin.

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 described in detail in the announcements of the Department of Music on page 186 of this bulletin. There is also a special curriculum leading to the degree of Bachelor of Music. The requirements for this degree are described in detail on page 186.

C. **Electives:**

In addition to meeting the requirements of the lower and upper divisions, the student must present for graduation a sufficient number of electives to bring his total number of semester credits to 128†.

**Course Prerequisites**

Students will be held responsible for meeting the prerequisites of all courses for which they enroll. In unusual cases, the appropriate Faculty or University Senate Standing Committee may waive certain prerequisites upon formal petition by the students concerned.

**Approval of Student's Schedule**

The schedule of courses of each student must have the written approval of the adviser before the student may complete his registration.

*These requirements do not apply to candidates for the degrees of Bachelor of Science in Education, Bachelor of Music, and Bachelor of Music Education.
†For the religion requirements of the "Combined Programs," see those programs. Students who transfer to Valparaiso University with 30 or more semester credits (with no religion credits) will be required to take one course in religion during each year of residence. Religion credits transferred from an approved school may be counted toward the ten-hour University requirement but a minimum of one course in religion is required of any transfer student.
*See page 181 for information concerning placement beyond Freshman Composition.
†Except in the Combined Programs and in the curricula leading to the degrees of Bachelor of Music Education and Bachelor of Music.
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 requirement 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.

PREPARATION FOR THE STUDY OF MEDICINE

Although most medical schools 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 is therefore urged to complete the requirements for a bachelor's degree and to include among his courses those courses required by the schools of medicine to which he plans to apply for admission.

A student preparing himself for the study of medicine must have his schedule approved at the beginning of each semester by the Adviser for Pre-Medical-Arts Students.

COMBINED LIBERAL ARTS-MEDICINE PROGRAM

A student may obtain the degree of Bachelor of Arts from Valparaiso University by completing three years (six semesters) of study at the University and completing an additional year's work (two semesters) at an approved school of medicine.

More specifically, the student who elects this program must meet the following requirements: he must spend his junior year in residence at
Valparaiso University; he must meet the degree requirements of the College of Arts and Sciences for the Lower Division; he must complete one major; he must offer a total of at least 94 semester credits of college work; he must make application for graduation sixty days prior to the date of graduation and present to the Registrar an official transcript of a full year's satisfactory work at an approved school of medicine; and he must have a standing of at least one (1.0) in all his work.

**PREPARATION FOR THE STUDY OF DENTISTRY**

Although most schools of dentistry admit some students who have not earned a bachelor's degree, candidates with bachelor's degrees are usually given preference. A student planning to enter a school of dentistry is therefore urged to complete the requirements for a bachelor's degree and to include among his courses those courses required by the schools of dentistry to which he plans to apply for admission.

A student preparing himself for the study of dentistry must have his schedule approved at the beginning of each semester by the Adviser for Pre-Medical-Arts Students.

**COMBINED LIBERAL ARTS-DENTISTRY PROGRAM**

A student may obtain the degree of Bachelor of Arts from Valparaiso University by completing three years (six semesters) of study at the University and then completing an additional year's work (two semesters) at an approved school of dentistry.

More specifically, he must meet all the requirements set forth above under "Combined Liberal Arts-Medicine Program" except that he must present to the Registrar an official transcript of a full year's satisfactory work at an approved school of dentistry (instead of a full year's work at an approved school of medicine).

**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. Many students, however, find it to their advantage to earn a bachelor's degree before beginning the study of medical technology.

A student preparing himself for the study of medical technology must have his schedule approved at the beginning of each semester by the Adviser for this program.

**COMBINED LIBERAL ARTS-MEDICAL TECHNOLOGY PROGRAM**

A student may obtain the degree of Bachelor of Arts from Valparaiso University by completing three years (six semesters) of study at the University and completing an additional year's work (twelve months) at an approved school of medical technology.

More specifically, he must meet all the requirements set forth above under "Combined Liberal Arts-Medicine Program" except that he must present to the Registrar an official transcript of a full year's satisfactory work at an approved school of medical technology (instead of a full year's work at an approved school of medicine). The University has informal associations with the Fort Wayne Lutheran Hospital Laboratory and the School of Medical Technology at Cleveland Lutheran Hospital.
summer employment (e.g., camping, summer community programs, youth academic study. These several group work experiences are intended to agency work) will be sought for each student in order to complement his and abilities. During the regular academic year, para-curricular activities discipline. Those students planning to go into full-time church work shall an academic major as specified by the respective department. Suggested training by working with youth under capable supervision, dependent upon majors (and areas for completion of a minor) include: Physical Education—Minor. Psychology—Minor. Social Studies—Area Major, Major, Minor. 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. 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 coursework in areas directly relevant to youth work; (2) participation in para-curricular activities both on and off the campus; (3) youth group-work experience under capable guidance; and (4) the student’s maintenance of close contact with the chairman of his major department and the director of the Training Program in order to outline, develop, and complete a training sequence which appreciates the student’s own interests and abilities.

Each student in the Training Program must satisfy all requirements for an academic major as specified by the respective department. Suggested majors (and areas for completion of a minor) include: Physical Education, Psychology, Religion, Social Work, and Sociology. Students will be expected to complete their minor or second major in a related academic discipline. Those students planning to go into full-time church work shall complete a minimum of 24 semester hours of Religion. Courses completed must include Social Work 78, Religion 121, 152, and 156. It is considered essential that the student accomplish a portion of his training by working with youth under capable supervision, dependent upon his major area of study and intended field of specialization. Relevant summer employment (e.g., camping, summer community programs, youth agency work) will be sought for each student in order to complement his academic study. These several group work experiences are intended to encourage the student’s examination and clarification of personal interests and abilities. During the regular academic year, para-curricular activities will require the attention and participation of the student. Internships, wherein the student would spend a portion of the regular academic year away from the campus under assignment, will remain optional but suggested for many students.

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

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

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

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

Deaconess students are expected to participate in University activities as part of their learning experience.

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

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

The nature of the Afro-American experience is such that the program consists largely of work in the social sciences, humanities, and fine arts. Special courses and special sections of existing courses may be used in meeting requirements for a baccalaureate degree. During the school year, 1969-1970, special sections of English 1, 2, and 56 and Theology 1, 2, and 123 were offered in connection with this program. In addition, courses in Black Humanities and The Black Urban Community were offered. Finally, certain regular offerings in History, Law, and Urban Studies were particularly appropriate to the program.

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

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

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

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

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

Valparaiso students register at Valparaiso for the Washington Semester and pay the usual tuition and other fees to Valparaiso. Expenses for travel, meals, and lodging are paid directly by the students. The Washington Semester gives full credit toward graduation from Valparaiso University. Not open to students who have participated in the 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 Government 4 will be considered candidates for this program.

For information concerning the Washington Semester Program Loan Fund, see page 87.

For a description of the two required courses of the Semester, see page 170.

THE MERRILL-PALMER SEMESTER
This semester, established by an agreement with Merrill-Palmer Institute, Detroit, Michigan, and Valparaiso University, makes it possible for selected students to spend the second semester of their junior year (or some other semester by special arrangement) 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, including such programs as Project Head Start. 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 Semester 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 Semester 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.

INDEPENDENT GROUP STUDY PROGRAM

During the Spring Semester, 1969-1970, and the two semesters of the school year, 1970-1971, the University Senate has authorized an Independent Group Study Program as an experiment.

GENERAL STUDIES 100. Independent Group Study Project. Each sem. Cr. 1, 2, or 3. An independent group project is conducted on a topic selected by the group. Grading is limited to the use of S or W. Prerequisite: Approval of a faculty sponsor and the Dean of the College of Arts and Sciences.

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

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

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 Association course offerings at Indiana University Northwest, Gary. Provisions are made for full-time undergraduate students, in these academic disciplines, to enroll beginning with the school year of 1970-1971 under the following conditions:

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

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

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

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

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

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

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

41. Geomorphology Cr 4 (VU)

G-112 Elements of Geology II Cr 3 (IUN)

G-221 Introduction to Mineralogy Cr 3 (IUN)

G-222 Introduction to Petrology Cr 3 (IUN)

G-323 Structural Geology Cr 3 (IUN)

G-334 Principles of Sedimentation and Stratigraphy Cr 3 (IUN)

G-411 Principles of Invertebrate Paleontology Cr 3 (IUN)

G-420 Regional Geology Field Trip Cr 1 (IUN)

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

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)
- Social Geography (Geography 51 and 52)
- The Government of the United States (Government 1)
- Comparative Government (Government 4)
- International Relations (Government 65 and 66)
- The Diplomacy of the United States (Government 111)
- American Foreign Policy (Government 112)
- Soviet Communism (Government 213)
- Public Administration (Government 162)
- International Law (Government 230)
- Foreign Political Areas (Government 153, 154, 155, 157, 158)
- Western Civilization (History 1 and 2)
- The History of the United States (History 35 and 36)
- Diplomatic History of the United States (History 245 and 246)
- Introductory Sociology (Sociology 33)

Additional information will be found under the Department of Government on page 168.

For information concerning the Angus Ward Foreign Service Scholarship, see page 84.

PREPARATION FOR SEMINARY ENTRANCE

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

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

**OFF-CAMPUS NURSING DIVISIONS**

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

**1970 SUMMER INSTITUTE FOR HIGH SCHOOL TEACHERS OF BIOLOGY**

Under a grant from the National Science Foundation, Valparaiso University will offer a Summer Institute for High School Teachers of Biology from June 29 to August 7, 1970. The major emphasis of this Institute will be to provide the opportunity for high school biology teachers to become better acquainted with basic concepts of contemporary molecular biology.

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

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

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

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

**1970 SUMMER INSTITUTE FOR JUNIOR HIGH SCHOOL TEACHERS OF MATHEMATICS**

Under a grant from the National Science Foundation, Valparaiso University will offer a Summer Institute for Junior High School Teachers of Mathematics from June 15 to July 31, 1970. The objectives of this Institute will be to improve the subject-matter competence of the participating teachers and to strengthen the participants' qualifications as teachers.

The Institute has been planned to provide junior high school teachers with essential mathematical background from which they will be able to meet the demands of the changing mathematics curriculum at this level.

All members will be enrolled in the following three undergraduate courses designed specifically for the Institute:

Mathematics 201. FOUNDATIONS OF ARITHMETIC AND ALGEBRA. Cr. 2. This course is designed to provide junior and senior high school teachers with essential mathematical background in arithmetic and algebra. The structure of arithmetic is considered from an algebraic viewpoint, with attention given to number systems. Open only to those participating in the N.S.F. Summer Institute in Mathematics.

Mathematics 202. FOUNDATIONS OF GEOMETRY. Cr. 2. This course is designed to provide junior and senior high school teachers with essential mathematical background in geometry. Attention is given to non-metric and informal geometry, the development of precise vocabulary, and the nature of proof. Open only to those participating in the N.S.F. Summer Institute in Mathematics.

Mathematics 203. CONTEMPORARY PROGRAMS FOR JUNIOR HIGH SCHOOL MATHEMATICS. Cr. 2. This course is designed to permit students to study contemporary proposals for junior high school mathematics. Experimental programs, suggestions, and modified curricula in mathematics will be considered as to content and methods of approach. Open only to those participating in the N.S.F. Summer Institute in Mathematics.

Note: Of the total hours earned in this Institute, only the credit hours earned in Mathematics 201 and 202 may be counted toward meeting the requirements for the degree of Master of Arts in Liberal Studies.

**1970-1971 COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM FOR HIGH SCHOOL TEACHERS IN THE SOCIAL SCIENCES**

Under a grant from the National Science Foundation, the Valparaiso University Sociology Department will offer a year training program in sociological methods, content and materials for 36 teachers from the Northwest Indiana region. Teacher-students will complete six courses during the summer and academic year period. During the summer months, each will enroll in Sociology 310 (Social Organization and Disorganization), 203 (Social Research), and Education 214 (Teaching of Social Science in Secondary Schools); in the fall Sociology 230 (Societal Structures: Community and Social Change); and in the spring Sociology 212 (Ethnic Minorities) and Education 226 (Seminar in Curriculum Problems). All credits earned may be counted toward the M.A. in L.S. degree at Valparaiso University.

**LAW ENFORCEMENT EDUCATION PROGRAM**

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

MAJOR—Thirty credit hours of art are required of students taking a major in the department. These thirty hours must include at least eight credit hours in the history of art and at least twelve credit hours in the practice of art. These twelve hours must include one semester of Drawing Studio, Design Studio, Painting Studio, and Sculpture Studio. Art 17 and Art 19 are strongly recommended. Participation in the Senior Exhibition Seminar is required in the last year of residence.

MINOR—Fifteen credit hours are required of students taking a minor in art. These fifteen credit hours must include two art history courses and two of the following studio courses: Drawing Studio, Design Studio, Painting Studio, and Sculpture Studio. Art 17 and Art 19 are strongly recommended.

APPROVAL OF SCHEDULES—Students taking a major or 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.

ART EXHIBITIONS AND OPENING RECEPTIONS—The art exhibitions and opening receptions sponsored by the Sloan Galleries are an integral part of the program of the Department of Art. Students taking their major work in the department should, therefore, consider participation in these scheduled exhibitions and opening receptions as obligatory, and as a matter of honor. Each year the Department of Art has an exhibition of student art. The department reserves the right to retain outstanding student work.

COURSES IN ART

COURSES IN THE HISTORY OF ART
For Undergraduates

17. INTRODUCTION TO ART. Each sem. Cr. 2 or 3. An introduction to the visual arts. Two credits cover the elements of form in the fine arts with special emphasis on orientations of artistic development. Three credits add one additional credit hour to the above and present a general outline of art history from the Pre-historic to the present.

82. LITURGICAL ART. Cr. 1. A lecture course in the practical use of art and symbols in the worship and instructional life of the Church.

110. COMPARATIVE TRADITIONS IN ART.** Cr. 3. Highlights of the art heritage of Europe and the Middle East showing distinctions as well as cross-influences, and examined in the countries where significant works of art are located.

113. FAR EASTERN ART. Sem. 2. Cr. 2. A survey of the art of India, China, and Japan. Offered in alternate years.

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

115. CHRISTIAN ART. Sem. 1. Cr. 3. A survey of the art and architecture of the first through the fourteenth century, with particular emphasis on the Early Christian, Byzantine, and Medieval periods and styles.


117. BAROQUE ART. Sem. 1. Cr. 2. A survey of the art and architecture of Europe from 1600 to 1789. Offered in alternate years.

118. MODERN DESIGN AND ARCHITECTURE. Sem. 1. Cr. 3. A survey of the practical arts of the nineteenth and twentieth centuries, with emphasis on architecture and industrial design. Field trip fee, $7.00.

For Undergraduates and Graduates

205. MODERN ART. Sem. 2. Cr. 3. A study of the plastic and pictorial expressions of Europe and America from the 18th century to the present with particular emphasis on the 20th century development. Fee, $3.00.

STUDIO COURSES

For Undergraduates

19. BASIC STUDIO. Each sem. 0+4, Cr. 2 or 0+6, Cr. 3. Introductory studio experience using various art media in the areas of drawing, painting, sculpture, and design. Studio fee, $5.00.

20. DRAWING STUDIO.** Cr. 3. A basic course in the fundamentals of rapid study sketching with special emphasis on the use of pen and ink, pencil, and water color and done while on locations in selected countries of Europe and the Middle East.

21. DRAWING STUDIO. Each sem. 0+6, Cr. 3. A basic course in the fundamentals of drawing using various media. Studio fee, $5.00.

22. DRAWING STUDIO. Sem. 1. 0+4, Cr. 2. A continuation of Art 21, with emphasis on drawing from the live model. Prerequisite: Art 21. Studio fee, $5.00.

33. DESIGN STUDIO. Sem. 2 in 0+6, Cr. 3. A basic course in the fundamentals of the visual arts. Application of the elements and principles of design in two-dimensional experiments in a variety of media. Studio fee, $5.00.

34. DESIGN STUDIO. Sem. 1. 0+4, Cr. 2. A basic course in the fundamentals of the visual arts. Application of the elements and principles of design in three-dimensional experiments in a variety of media. Studio fee, $5.00. Prerequisite: Art 19 or consent of the chairman of the department.

41. CRAFTS STUDIO. Sem. 2. 0+6, Cr. 3. A course in crafts with an emphasis in pottery. Studio fee, $15.00.

109. ARTS AND CRAFTS IN THE ELEMENTARY SCHOOL. Each sem. 0+6 or 0+8, Cr. 3 or 4. A basic course to provide the prospective teacher with studio experiences in the selection, organization, and use of two- and three-dimensional art and craft materials for the elementary school. The fourth credit provides opportunities to work in elementary classrooms. Studio fee, $15.00.

119. ART IN THE SECONDARY SCHOOL. Sem. 2. 0+8, Cr. 4. A basic course to provide the prospective teacher with studio experiences in the selection, organization, and use of two- and three-dimensional art materials for the junior and senior high school. Studio fee, $15.00.

121. PAINTING STUDIO. Each sem. 0+6, Cr. 3. Painting in oil with special emphasis on the control and the techniques of the medium. Projects in still-life, landscape, and figure. Prerequisite: Art 21. Studio fee, $5.00.

122. PAINTING STUDIO. Each sem. 0+6, Cr. 3. Continuation of Art 121 with emphasis on composition and experimenting with new media. Prerequisite: Art 121 and consent of the chairman of the department. Studio fee, $5.00.

133. DESIGN STUDIO. Sem. 1. 0+6, Cr. 3. An advanced course in design. Projects in commercial design. Prerequisite: Art 33 or consent of the chairman of the department. Studio fee, $5.00.

134. DESIGN STUDIO. Sem. 1. 0+6, Cr. 3. Continuation of Art 133. Prerequisite: Art 133 or consent of the instructor. Studio fee, $5.00.

135. SCULPTURE STUDIO. Each sem. 0+6, Cr. 3. Introduction to various materials and techniques with emphasis on composition. Studio fee, $15.00. Prerequisite: Art 19, 21, or 34, or consent of the chairman of the department.

*Offered only in the summer study program abroad.
152. SCULPTURE STUDIO. Each sem. 0+6, Cr. 3. Advanced compositional problems with emphasis on meaning. Introduction to welding techniques. Prerequisite: Art 151 or consent of the chairman of the department. Studio fee, $15.00.

161. PRINTMAKING STUDIO. Sem. 2. 0+6, Cr. 3. An introduction to print techniques and composition. Projects in woodcut and intaglio including drypoint, etching, aquatint, engraving, etc. Prerequisite: Art 21. Studio fee, $15.00.

162. PRINTMAKING STUDIO. Sem. 2. 0+6, Cr. 3. A continuation of Art 161 with emphasis on advanced techniques and composition. Prerequisite: Art 161. Studio fee, $15.00.

182. LITURGICAL ART STUDIO. 0+6, Cr. 3. A study of the practical application of fine art and design to the worship and instructional life of the Church. Investigation and execution of liturgical art projects with weekly discussions. Prerequisite: consent of the instructor. Studio fee, $10.00.

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.

195. INDIVIDUAL PROJECTS. Each sem. 0+2, Cr. 1, 0+4, Cr. 2, or 0+6, Cr. 3. Individual investigation of problems in a specific area of study. Prerequisite: senior standing with a major or minor in art or consent of the chairman of the department. Studio fee, $5.00 per credit hour.
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.

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

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

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

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

103. EXPERIMENTAL BOTANY. Sem. 1. 1+4, Cr. 3. An experimental approach to the study of the plant kingdom with emphasis on the Embryophyta. Patterns of gross and microscopic anatomy are considered as providing clues to the evolutionary relationships of plant groups. Living materials are used whenever possible in conducting experiments on developmental, morphological, and physiological phenomena of plants and plant organs. Prerequisites: Biology 50 and 60 and junior standing. Laboratory fee, $5.00. (Offered 1970-1971. Not offered 1971-1972.)

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

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

125. BIOMETRY. Sem. 1. 2+2, Cr. 3. Basic concepts and principles underlying quantitative and statistical methods in biology. Topics include finite probability, statistical measures, distributions, tests of significance, analysis of variance and elementary experimental design, regression and correlation, nonparametric statistics. Prerequisites: Biology 61 and one year of college mathematics or consent of the instructor. Not open to students who have had a course in statistics. Laboratory fee, $5.00. (Not offered in 1970-1971. Offered in 1971-1972.)

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

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 a project. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or a minor in this department.

193*. PRO-SEMINAR IN BIOLOGY. Each sem. Cr. 1. Student and staff presentation and discussion of one of the following topics:
   a. Biogeography
   b. Biology of the Algae
   c. Biology of Sex
   d. Comparative Physiology
   e. Endocrinology
   f. Evolution (Prerequisite: Biology 63.)
   g. History of Biological Thought
   h. Human Genetics (Prerequisite: Biology 61.)
   i. Immunology
   j. Light and Life
   k. Parasitism
   l. Plant Growth and Development
   m. Protozoology
   n. Radiobiology
   o. Viruses

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

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

For Undergraduates and Graduates

203. HUMAN ENVIRONMENTAL BIOLOGY. Sem. 1. 2+3, Cr. 3. Lectures, conferences, demonstrations, and laboratory work considering man's health and physical needs in relation to his past, current, and future environmental situation. Special emphasis is given to problems associated with the biological nature of man, healthful living, occupational and recreational conditions, environmental pollution, and public health organizations and functions. Prerequisites: completion of lower division natural science requirements and junior standing. Laboratory fee, $5.00.

205. BIOCHEMISTRY. (Also offered as Chemistry 205.) Sem. 2. 4+0, Cr. 4. The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism. Prerequisites: Chemistry 50 and 71 or 71B.

207. ECOLOGY. Sem. 1. 2+4, Cr. 4. A study of organisms in relationship to their physical and biotic environment. There is considerable field work in local terrestrial and aquatic habitats. Prerequisite: Biology 63. Laboratory and field trip fee, $10.00.

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

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 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.

217*. COMPARATIVE PSYCHOLOGY. (Also offered as Psychology 217.) Sem. 2. Cr. 3. The concepts of the science of behavior and the application of the scientific method to the study of animal conduct. This course deals with the develop-

*Grades of S and U are given for these courses.
ment of behavior and intelligence, the receptor control of activity, periodicity in behavior, and higher mental processes in animals. Prerequisites: Biology 50, Psychology 51, and one of the following: Psychology 132, Psychology 135, Psychology 136, Biology 207.

220. CYTOLOGY. Sem. 2. 2+3, Cr. 3. An introduction to cell biology with reference to composition, structure, function, growth, and differentiation of cells. Cytological aspects of genetics are emphasized. Laboratory work in experimental cytology. Prerequisites: Chemistry 71 (which may be taken concurrently) and Biology 61. Laboratory fee, $5.00.

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

For Graduates

305. EVOLUTION: A CRITICAL STUDY. 3+0, Cr. 3. A study of the theory of organic evolution, including evidences of evolution, course of evolution, and modern ideas on the mechanisms of evolution. Prerequisite: Genetics or consent of the instructor. Field trip fee, $5.00. (Not offered after Summer Session 1970-1971.)

350*. SEMINAR IN BIOLOGY. 1+0, Cr. 1. Reports and discussions by staff members and graduate students on current research in biology. Required of all students presenting more than ten semester credits in biology for their master's degree. Prerequisite: consent of the chairman of the department. (Not offered after Summer Session 1970-1971.)

*Grades of S and U are given for this course.
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. Completion of this course fulfills one of the fields of the Lower-Division natural science requirement. 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. (Formerly Elementary Organic Chemistry.) ORGANIC CHEMISTRY. Each sem. 4+3, Cr. 5. An introductory survey of the nomenclature, synthesis, structure, and properties of carbon compounds. Prerequisite: Chemistry 52 or 63. Laboratory fee, $10.00.

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

111. PHYSICAL CHEMISTRY. Sem. 1. 3+3, Cr. 4. A theoretical study of chemistry involving thermodynamics, kinetics and modern structural concepts. Prerequisites: Chemistry 64 and 71 (71 may be taken concurrently), Mathematics 76 or equivalent, and Physics 68. Laboratory fee, $10.00.

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

118. INTERMEDIATE ORGANIC CHEMISTRY. Sem. 2. 3+3, Cr. 4. A further study of the properties of carbon compounds, including reaction mechanisms and complex organic reactions. Special topics of interest to pre-medical arts students are included. Prerequisite: Chemistry 71. Laboratory fee, $10.00. (Not open for credit to students who have taken Chemistry 120.)

120. INTERMEDIATE ORGANIC CHEMISTRY. Sem. 1. 3+3, Cr. 4. A further study of the properties of carbon compounds, including reaction mechanisms and complex organic reactions. This course is recommended for those planning to enter the chemical profession or graduate school in chemistry. Prerequisite: Chemistry 71. Laboratory fee, $10.00. (Not open for credit to students who have taken Chemistry 120.)

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.
THE DEPARTMENT OF ECONOMICS

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

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. Economics may also be taken as one of the two social sciences required in the Lower Division by the College of Arts and Sciences.

A student may count towards graduation from the College of Arts and Sciences only 6 credit hours earned in any other department of the College of Business Administration.

MAJOR—Thirty credit hours are required for a major in economics. The following courses must be included: Economics 71, 72, 85, 281, and 282.

MINOR—Eighteen credit hours are required for a minor in economics. The following courses must be included: Economics 71, 72, and 85.

Economics 106 and 107 may not be counted toward a major or minor in the Department of Economics.

Students planning to major in Economics are advised to complete Mathematics 51 and 52, or the equivalent.

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

COURSES IN ECONOMICS

For Undergraduates

71. PRINCIPLES OF ECONOMICS. Sem. 1. Cr. 3. An introductory study of the central functions and problems of an economic system with emphasis upon the institutions characterizing the American economy. Prerequisite: Economics 71 or its equivalent.

72. PRINCIPLES OF ECONOMICS. Sem. 2. Cr. 3. A continuation of Economics 71. Prerequisite: Economics 71 or its equivalent.

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.)

85. STATISTICS. Each sem. Cr. 3. A course in the elementary principles of the statistical method and their application to business and economic problems. Prerequisite: Economics 72 or senior standing in mechanical engineering.

86. STATISTICS. Sem. 2. Cr. 3. A continuation of Economics 85. Prerequisite: Economics 85.

106. ECONOMIC AND COMMERCIAL GEOGRAPHY. (Also offered as Geography 64.) 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 inter-regional and international trade, centers and routes of trade. (Not open to students who have had Geography 151 or 156.)

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 51 and 52 or the equivalent, and Economics 72, plus either a statistics or a mathematics course numbered above 52 or its equivalent. Laboratory fee, $10.00.

171. GOVERNMENT REGULATION OF BUSINESS. (Also offered as Management 143.) Each sem. Cr. 3. A survey of the operation and effectiveness of government regulation of business, including policies designed to promote competition. Prerequisite: Economics 72 or Accounting 12.

172. COMPARATIVE ECONOMIC SYSTEMS. Sem. 1. Cr. 3. A comparative analysis of contemporary systems of economic organization, including socialism, communism, capitalism, and their variants. Prerequisite: Economics 72 or junior standing.

174. PUBLIC FINANCE. (Also offered as Finance 166.) Sem. 2. Cr. 3. A study of the general principles of public revenues, public expenditures, public indebtedness, fiscal administration, and taxation, in their relationship to economic activity and growth. Prerequisite: Economics 72.

175. ECONOMIC INSECURITY AND SOCIAL INSURANCE. (Also offered as Finance 156.) Sem. 2. Cr. 3. An analysis of the socio-economic risks of accident, disease, unemployment, old age, poverty, and the social insurance and welfare programs designed to meet these risks. Prerequisite: Economics 72.

176. FOREIGN EXCHANGE AND TRADE. (Also offered as Finance 168.) Sem. 2. Cr. 3. A study of foreign trade and exchange and international indebtedness and trade problems. Prerequisite: Economics 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 bargaining; government regulation of labor relationships; and an economic analysis of wage-employment problems. Prerequisite: Economics 72.

185. MONEY AND BANKING. Sem. 1. Cr. 3. The banking systems of the United States and other selected countries; monetary theory and policy; and the role of money in the determination of economic activity. Prerequisite: Economics 72.

186. MANAGERIAL ECONOMICS. (Also offered as Management 146.) Sem. 2. Cr. 3. The application of economic analysis to business decision-making. Prerequisite: Economics 72 or Accounting 12.

187. DYNAMIC ECONOMIC ANALYSIS. Sem. 2. Cr. 3. A critical examination of current theories and techniques used in macro-economic analysis. Prerequisites: Economics 85 and 282. (Offered in alternate years.)

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

For Undergraduates and Graduates

275. ECONOMIC HISTORY OF THE UNITED STATES. Cr. 3. The history of the economic development of the United States from the colonial period to the present. Prerequisite: junior standing and consent of the chairman of the department.

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. Prerequisite: Economics 72.

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. Prerequisite: Economics 72.

286. HISTORY OF ECONOMIC THOUGHT. Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisites: junior standing and consent of the chairman of the department.
THE DEPARTMENT OF EDUCATION

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

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 144 of the Department of Education.

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 should consult with the appropriate adviser of this department as early as possible concerning adjustments in programs of study to meet certification requirements.

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, provisional 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.

2. communication skills—an applicant must have obtained a grade of C or better in at least 2 semester credit hours 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. Should a student wish to appeal a negative action taken on his application he may make such appeal to this Committee. 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 provisional certification. This semester includes the methods, practicum, 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 may be assigned to a Valparaiso Community School or a select school in Northwest Indiana.

MINOR—Only students preparing to meet secondary certification requirements may minor in education. The minor in secondary education meets the requirements for a minor established by the College of Arts and Sciences. Students interested in minoring in education should consult with the Co-ordinator of Secondary Education.

BACHELOR OF SCIENCE IN EDUCATION—The College of Arts and Sciences offers a special curriculum in elementary education which leads to the degree of Bachelor of Science in Education. 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 109 of this bulletin. The 128 credit hours required must be selected with the approval of the Education Department and must include the following as a minimum:

1. RELIGION: 10 semester hours (two credits in Christian Ethics may also be counted in item #6 below).
2. LANGUAGE ARTS: 17 semester hours. Must include 15 credits in English (including one course in Literature for Children) and at least one course in speech (2 hours).
3. SOCIAL SCIENCE: 18 semester hours. Must include two courses in history and one course in conservation. The following areas are considered social sciences: Economics, Geography, Government, History, and Sociology.
4. SCIENCE AND MATHEMATICS: 20 semester hours. Must include 12 credits of biological, physical, and earth sciences and 8 credits of mathematics for the elementary teacher.
5. FINE ARTS: 10 semester hours. Must include at least one course in music and one course in art.
6. OTHER ESSENTIAL SUBJECT MATTER: 6 semester hours. Must include General Psychology and Physical Education. May include safety education, recreation, physical activity, nutrition, and Christian Ethics (see item #1).
7. EDUCATION: 31 semester hours. Must include an introductory course in education, Psychological Foundations of Education, Methods in Elementary Education, and 8 credits of Student Teaching.
8. MINOR: The student must complete a departmental minor in one of the following fields: Art, Biology, Chemistry, Economics, English.

*Education 62 (Introduction to Education) having been taken in this curriculum may be used as a social science requirement to meet part of the Lower-Division requirements of the College of Arts and Sciences.
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VALPARAISO UNIVERSITY

180. (Formerly Practicum for Elementary and Secondary Teaching.) PRACTICUM FOR ELEMENTARY TEACHING. Each sem. 0–3, Cr. 1. The student is assigned to a school as teacher-aid and/or observer-participant. The student will become acquainted with current school procedures and problems through contact with elementary or secondary pupils and through discussion seminars with the staff. Prerequisites: junior standing and admission to the Teacher-Education Program. (Not offered after 1970-1971.)

181. ELEMENTARY METHODS AND TECHNIQUES OF TEACHING. Each sem. Cr. 8. The student is expected to give full time for approximately nine weeks of the professional semester to a study of the development and organization of the elementary school; including principles, content, curriculum, methods, and techniques involved in teaching the language arts, science, mathematics, and the social studies. This course is restricted to students enrolled in the Professional Semester in elementary education.

189. ADOLESCENT DEVELOPMENT AND GUIDANCE. Each sem. Cr. 2. A study in human growth and development, with reference to an understanding and guidance of adolescent behavior. (This course is taught as part of the Professional Semester in secondary education.)

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

191. SPECIAL METHODS IN THE ACADEMIC COURSES IN SECONDARY EDUCATION. Cr. 2. This course is administered by the Department of Education. It is given in the various departments of the College of Arts and Sciences under the following titles:
The Teaching of Art
The Teaching of Biological Sciences
The Teaching of English
The Teaching of Foreign Languages
The Teaching of Social Studies
The Teaching of Home Economics
Prerequisites: Education 62, 101, and admission to the Professional Semester.

192. SUPERVISED TEACHING IN THE ELEMENTARY GRADES. Each sem. Cr. 8. This course gives the student opportunities for observation, actual classroom teaching, and participation in related activities in elementary schools under the direction of the supervising teacher and the University supervisor. Students are expected to give full time to this course for approximately nine weeks of the semester. Prerequisite: senior standing. See special paragraph on Supervised Teaching under the general statement above for conditions of eligibility. Students enrolled in this course may not carry a maximum load of more than 17 credit hours. Fee, $65.00.

194. SUPERVISED TEACHING IN THE SECONDARY-SCHOOL SUBJECTS. Each sem. Cr. 7. Each student will be assigned to a secondary school for laboratory experiences which will include at least 246 clock hours of classroom observation, classroom teaching, and related activities. Prerequisites: senior standing and concurrent enrollment in the Professional Semester. See special paragraph on Supervised Teaching in the general statement above for conditions of eligibility. Students enrolled in this course may not carry a load of more than 16 credit hours. Fee, $65.00.

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

THE COLLEGE OF ARTS AND SCIENCES

For Undergraduates and Graduates

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

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

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

205. EDUCATIONAL MEASUREMENT. Cr. 3. A course dealing with the history and theory of measurement, statistical analysis and interpretation of measurement data, and testing in relation to pupil achievement and guidance.

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

212. THE TEACHING OF READING. 1+2, Cr. 2. An introductory course in the teaching of reading including a study of the nature of the reading process, the reading curriculum, and principles, methods, and materials used for the development of effective reading.

213. SCIENCE IN THE ELEMENTARY SCHOOL. 1+2, Cr. 2. Analysis of curriculum and instruction in elementary science; methods of presentation, problems, trends, research findings, and instructional resources. Demonstrations and appropriate experiments for elementary schools. Laboratory work is required. Prerequisites: 12 hours in science and consent of the chairman of the department.

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

215. THE JUNIOR HIGH SCHOOL. Cr. 2. The role of the junior high school will be explored. Particular attention will be given to a critical analysis of current problems, trends, research findings, and instructional resources. Demonstrations and appropriate experiments for elementary schools. Laboratory work is required. Prerequisite: Education 190 or the equivalent.

216. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION. Cr. 4. Contemporary approach to the study of human behavior with reference to child and adolescent growth and development, learning, motivation, emotions, and personality. (Not open to students who have had Educational Psychology.)

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

226. SEMINAR IN CURRICULUM PROBLEMS. Cr. 2. The seminar will study in depth selected problems in one area of the curriculum of the elementary or secondary school. The curriculum area selected for study will be determined on the basis of interests represented by those taking the course. Prerequisite: consent of the chairman of the department.
240. **EDUCATIONAL GUIDANCE AND COUNSELING.** Cr. 3. A course dealing with the nature, functions, and organization of student personnel programs in elementary and secondary schools with counseling and guidance services the central feature. Prerequisite: Education 205 or the equivalent.

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

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

**For Graduates**

305. **PHILOSOPHICAL FOUNDATIONS OF EDUCATION.** Cr. 3. A course in educational thought designed to explore systems of thought with emphasis upon educational philosophic patterns, their influence upon the implications for practice and theory in education.

310. **ADVANCED EDUCATIONAL PSYCHOLOGY.** Cr. 3. Basic study of psychological concepts and phenomena as related to the teaching-learning situation. Emphasis on the interpretation and analysis of psychological research concerning human behavior and development. Designed particularly for experienced teachers. Prerequisite: 15 hours in education or consent of the instructor.

317. **RESEARCH IN EDUCATION.** Cr. 3. A course designed to develop skill in reading, interpreting, and evaluating research in education. Students are required to review research in a specific area of education and to design a research study in one area of interest to them. Prerequisite: 15 hours in education or consent of the instructor.

320. **HISTORICAL FOUNDATIONS OF EDUCATION.** Cr. 3. The history of American education in its cultural framework. Special attention will be given the reform movements of the 20th Century.

323. **RESEARCH IN READING.** Cr. 3. A review of basic research in reading as applied to principles of learning, instructional processes, and curricular organization. Prerequisites: beginning course in the teaching of reading and a course in statistics.

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

328. **THE SUPERVISION OF STUDENT TEACHING.** Cr. 3. A course dealing with the problems of supervising student teaching at the elementary and secondary levels. The historical development of student teaching, current student-teaching programs, and the problems related to the supervision of student teachers in the classroom and the school will be studied. Prerequisites: teaching experience and consent of the instructor.

329. **CLINICAL PRACTICUM IN READING.** Cr. 3. Guided experience in clinical diagnosis; practice in dealing with specific procedures for the correction of various types of reading disabilities. Prerequisite: Education 327 or the equivalent.

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

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

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

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

141. **HISTORY OF THE ENGLISH LANGUAGE.** Each sem. Cr. 2. An introduction to the development of modern English from Indo-European with emphasis upon structure and vocabulary.

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

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

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

152. (Formerly Victorian Poets.) **VICTORIAN LITERATURE.** Sem. 2. Cr. 3. A study of the major poetry and some of the prose of the Victorian period.

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

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

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

178. (Formerly Children's Literature.) **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 teaching major or minor in English. Prerequisite: senior standing or consent of the chairman of the department.

187. **PRO-SEMINAR IN ENGLISH.** Each sem. Cr. 3. A pro-seminar primarily for senior English majors providing in-depth study of a designated topic in English or American literature to be determined by the instructor. Enrollment limited to fifteen students. Admission by consent of the chairman of the department.

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

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

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

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

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

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

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

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

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

**For Graduates**

303. **PROBLEMS IN LITERATURE FOR CHILDREN.** Cr. 3. A study of the great children's literature of the past and the present, of the values that that literature holds for children, and of the criticism of that literature with the aim of developing a set of critical standards for the evaluation of books for children; a study of criteria for selecting books for school use. This course includes a scrutiny of representative scholarship as well as the handling of many bibliographical tools.

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

307. **THE STRUCTURE OF MODERN ENGLISH.** Cr. 3. An analysis of the structure of the spoken and written English of today.

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

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

315. **SHAKESPEAREAN TRAGEDY.** Cr. 3. An intensive study of the five great tragedies of Shakespeare: Hamlet, Othello, King Lear, Macbeth, and Antony and Cleopatra.
317. POETRY OF THE RENAISSANCE. Cr. 3. An intensive study of selected works of three outstanding poets of the English Renaissance: Edmund Spenser, John Donne, and Ben Jonson.

320. MELVILLE, WHITMAN, AND TWAIN. Cr. 3. A detailed study of the most important works of these three major American writers of the nineteenth century.

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

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

JOURNALISM

Courses in journalism may not be counted toward a major or minor in English. English majors must have a minor in a field outside the Department of English.

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

COURSES IN JOURNALISM

For Undergraduates

71. NEWS WRITING. Each sem. Cr. 3. A course in the fundamentals of news writing and news gathering. Practice in writing various types of news stories; problems of in-depth writing and reporting; introduction to newspaper organization and methods. Laboratory and field work. Prerequisite: English 2.

72. NEWS EDITING. Sem. 2. Cr. 3. A course in copy editing, headline writing, and newspaper make-up. Basic principles of news evaluation; photo editing; introduction to layout. Laboratory practice. Prerequisite: English 71.

73. INTRODUCTION TO MASS MEDIA. Sem. 1. Cr. 3. A course in the history, development, and organization of the mass media. Analysis and evaluation of the performance of the media and of their relationships with society and government. Examination of the canons of journalism. Discussion of the problems of libel, slander, and censorship. Prerequisite: English 2.

THE DEPARTMENT OF FOREIGN LANGUAGES

Professor Reinke (Chairman); Professors Moulton and Must; Associate Professors Falkenstein, Helms, and H. Peters; Assistant Professors S. Baepler*, Crumpacker, J. Peters, and Petersen; Mr. Cilo, Mr. Higbie, Mr. Julseth, Mrs. Kaplan, Miss Morris, Mrs. Ochoa, Mr. Schwarz, Miss Stephan, and Miss Toledo

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department and all students planning to teach French, German, or Spanish must have their schedules approved by the chairman of the department at the beginning of each semester.

NOTE—A student may complete any of the first four semester-courses in any foreign language offered by Valparaiso University in its Department of Foreign Languages by passing a special examination. Courses completed in this way may be counted toward meeting the Lower-Division requirement in foreign languages. However, first and second semester courses completed by special examination may not be counted toward a major or minor nor toward any graduation requirements other than the Lower-Division requirement in foreign languages.

In French and in German and in Spanish accelerated courses are offered at the second and third semester levels (French 2 Honors, French 53 Honors, German 2 Honors, German 53 Honors, Spanish 2 Honors, Spanish 53 Honors) to enable students to pass the special examinations described above.

FRENCH

MAJOR—Eighteen credit hours beyond French 54 are required of students taking a major in French.

Students planning to take a major in French are urged to study at least one more foreign language, to take History 121 and 223, Geography 131-139, a course in philosophy, and as many courses in English as their programs will permit.

MINOR—Nine credit hours beyond French 54 are required of students taking a minor in French.

COURSES IN FRENCH

For Undergraduates

1. FIRST SEMESTER FRENCH. Each sem. Cr. 3. Study of pronunciation by means of phonetic symbols. Grammar taught inductively, with conversation and dictation; daily written work. Laboratory fee, $5.00.

2. SECOND SEMESTER FRENCH. Each sem. Cr. 3. Study of grammar, with emphasis upon the verb; reading of simple texts. An accelerated section (Honors) is provided for students recommended by the staff. Prerequisite: French 1 or permission of the chairman of the department. Laboratory fee, $5.00.

53. THIRD SEMESTER FRENCH. Each sem. Cr. 3. Systematic review of grammar, with oral and written compositions. Study of irregular verbs. Reading of modern authors. An accelerated section (Honors) is provided for students recommended by the staff. Prerequisite: French 2 or permission of the chairman of the department.

54. FOURTH SEMESTER FRENCH. Each sem. Cr. 3. Continuation of French 53, with an introduction to the history of French civilization. Prerequisite: French 53 or equivalent.

103. FRENCH PHONETICS. Either sem. Cr. 3. A study of the principles of French phonetics with special emphasis upon the difficulties encountered by American students with much practical training in the laboratory. Prerequisite: French 54 or equivalent.

105. SURVEY OF FRENCH LITERATURE. Either sem. Cr. 3. A study of the major authors and works of French literature from earliest times until 1700. Prerequisite: French 54 or equivalent.

106. SURVEY OF FRENCH LITERATURE. Either sem. Cr. 3. A study of the major authors and works of French literature from 1700 to the present. Prerequisite: French 54 or equivalent.

113. FRENCH COMPOSITION AND CONVERSATION. Either sem. Cr. 3. Written composition based on connected reading with emphasis on the use of idioms. Conversation related to the reading, including topics of current interest. Prerequisite: French 54 or equivalent.

114. FRENCH COMPOSITION AND CONVERSATION. Either sem. Cr. 3. A continuation of French 113. Prerequisite: French 113 or equivalent.

145. ADVANCED FRENCH COMPOSITION AND CONVERSATION. Either sem. Cr. 3. A continuation of French 114. Prerequisite: French 114 or consent of the instructor.

152. FRENCH CIVILIZATION. Either sem. Cr. 3. A course which considers the civilization of France from earliest times to the present. Prerequisite: ready facility in both written and oral French.

The following courses are intended for students who wish to cover in greater depth material similar to that treated in French 105 and French 106 (which courses in such instances may be omitted).

168. MEDIEVAL FRENCH LITERATURE. Either sem. Cr. 3. Prerequisite: French 54 or equivalent.

169. SIXTEENTH-CENTURY FRENCH LITERATURE. Either sem. Cr. 3. Prerequisite: French 54 or equivalent.

170. SEVENTEENTH-CENTURY FRENCH LITERATURE. Either sem. Cr. 3. Prerequisite: French 54 or equivalent.

171. EIGHTEENTH-CENTURY FRENCH LITERATURE. Either sem. Cr. 3. Prerequisite: French 54 or equivalent.

172. NINETEENTH-CENTURY FRENCH LITERATURE. Either sem. Cr. 3. Prerequisite: French 54 or equivalent.

173. TWENTIETH-CENTURY FRENCH LITERATURE. Either sem. Cr. 3. Prerequisite: French 54 or equivalent.

190. DIRECTED READING IN FRENCH. Either sem. Cr. 1-3. Intended for seniors capable of doing independent study in French language and literature. Research paper required. Prerequisite: 18 semester credit hours of college French.

191. THE TEACHING OF FOREIGN LANGUAGES. Either sem. Cr. 2. (See Education 191.) A study of the methods of teaching foreign languages in secondary schools. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or a minor in this department. (Given upon sufficient demand.)
126. **THE GERMAN NOVELLE.** Either sem. Cr. 3. Systematic and historical study of the *Novelle*. Class reading and discussion of representative *Novellen*; lectures, independent reading, and class reports. Prerequisite: German 101 or 113 or consent of the chairman of the department.

131. **THE GERMAN DRAMA.** Either sem. Cr. 3. Development of the German drama from its beginnings to modern times. Reading of representative plays of each period, lectures, and discussions. Prerequisite: German 101 or 113 or equivalent.

132. **THE GERMAN NOVEL.** Either sem. Cr. 3. Development of the German novel from its beginnings to modern times. Readings from representative novels of each period, lectures, and discussions. Prerequisite: German 101 or 113 or equivalent.

146. **GERMAN CIVILIZATION.** Either sem. Cr. 3. A historical survey of the German cultural heritage in the fields of history, philosophy, religion, sociology, language, and the fine arts. Prerequisite: German 101 or 113 or equivalent.

152. **ADVANCED GERMAN COMPOSITION AND CONVERSATION.** Either sem. Cr. 3. A course intended primarily for students who plan to teach German or to do graduate work in German. Stylistics, writing, and presentation of academic papers. Prerequisite: German 114 or equivalent.

153. **HISTORY OF GERMAN LITERATURE TO 1700.** Either sem. Cr. 3. Seminar: discussions, lectures, readings. Prerequisite: German 101 or 113 or equivalent.

154. **EIGHTEENTH-CENTURY GERMAN LITERATURE** (exclusive of Goethe and Schiller.) Either sem. Cr. 3. Seminar: discussions, lectures, readings. Prerequisite: German 101 or 113 or equivalent.

155. **NINETEENTH-CENTURY GERMAN LITERATURE.** Seminar. Cr. 3. Seminar: discussions, lectures, readings. Prerequisite: German 101 or 113 or equivalent.

156. **NINETEENTH-CENTURY GERMAN LITERATURE.** Seminar. Cr. 3. A continuation of German 155. Prerequisite: German 155 or equivalent.

157. **GOETHE.** Either sem. Cr. 3. Seminar: discussions, lectures, readings. Prerequisite: German 101 or 113 or equivalent.

159. **SCHILLER.** Either sem. Cr. 3. Class reading and discussion, lectures, independent reading, and class reports. Prerequisite: German 101 or 113 or equivalent.

190. **DIRECTED READING IN GERMAN.** Either sem. Cr. 1-3. Intended for seniors capable of doing independent study in German language and literature. Research paper required. Prerequisite: 18 semester credit hours of college German.

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

**THE CLASSICS**

**MAJOR**—Seventeen credit hours of Greek plus twelve credit hours of Latin beyond Latin 54 are required of students taking a major in the Classics.

Students planning to take a major in the Classics are urged to study at least one modern foreign language, to take History 103 and 104, courses in philosophy, English 210 and 215, and as many other courses in English as their programs will permit.

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**HEBREW COURSES IN HEBREW**

**For Undergraduates**

1. **FIRST SEMESTER HEBREW.** Sem. 1. Cr. 3. Elements of Hebrew grammar and reading of prose sections of the Old Testament. (Offered in alternate years.) Laboratory fee, $5.00.
### Courses in Latin

**For Undergraduates**

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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>151.</td>
<td>Odes and Epodes. Either sem. Cr. 3. Study of lyric poetry, the personality of Horace, and the social and political life of the Augustan Period as reflected in his lyrics.</td>
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### Courses in Russian

**For Undergraduates**

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### Courses in Spanish

**For Undergraduates**

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<th>Description</th>
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<tr>
<td>159.</td>
<td>Major—Eighteen credit hours beyond Spanish 54 are required of students taking a major in Spanish. Students planning to major in Spanish are urged to study at least one more foreign language, to take Geography 131-139, History 151, 152, and 223, and as many courses in English and American literature as their programs will permit.</td>
</tr>
<tr>
<td>160.</td>
<td>Minor—Nine credit hours beyond Spanish 54 are required of students taking a minor in Spanish.</td>
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</tbody>
</table>
1. FIRST SEMESTER SPANISH. Each sem. Cr. 3. An introduction to the study of the Spanish language with emphasis on grammar and vocabulary-building. Laboratory fee, $5.00.

2. SECOND SEMESTER SPANISH. Each sem. Cr. 3. A continuation of Spanish I with a continued emphasis on grammar and a beginning of self-expression in written Spanish. Prerequisite: Spanish I or equivalent. Laboratory fee, $5.00.

3. THIRD SEMESTER SPANISH. Each sem. Cr. 3. Intermediate Spanish. Detailed reading of cultural material, continued composition, and a beginning of oral self-expression. Prerequisite: Spanish 2 or equivalent.

4. FOURTH SEMESTER SPANISH. Each sem. Cr. 3. Intermediate Spanish. A continuation of Spanish 3 with an increased emphasis on self-expression and conversation. Prerequisite: Spanish 3 or equivalent.

53. THIRD SEMESTER SPANISH. Each sem. Cr. 3. Intermediate Spanish. Detailed reading of cultural material, continued composition, and a beginning of oral self-expression. Prerequisite: Spanish 2 or equivalent.

54. FOURTH SEMESTER SPANISH. Each sem. Cr. 3. Intermediate Spanish. A continuation of Spanish 3 with an increased emphasis on self-expression and conversation. Prerequisite: Spanish 2 or equivalent.

113. SPANISH COMPOSITION AND CONVERSATION. Each sem. Cr. 3. Conversation and written composition based on connected readings and everyday experiences. Prerequisite: Spanish 54 or equivalent.

114. SPANISH COMPOSITION AND CONVERSATION. Each sem. Cr. 3. A continuation of Spanish 113 with additional practice in original oral and written composition. Prerequisite: Spanish 113 or equivalent.

115. ADVANCED SPANISH COMPOSITION AND CONVERSATION. Sem. 1. Cr. 3. A course intended primarily for seniors who plan to teach Spanish or to do graduate work in Spanish. Prerequisite: Spanish 114 or equivalent.

121. SELECTED READINGS IN SPANISH-AMERICAN LITERATURE. Sem. 1. Cr. 3. The reading and discussion of works of Spanish-American 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 113 or equivalent.

122. SELECTED READINGS IN SPANISH LITERATURE. Sem. 2. Cr. 3. The reading and discussion of works of Spanish 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 113 or equivalent.

145. SPANISH CIVILIZATION. Sem. 1. Cr. 3. A course intended to further the student's conversational ability and his knowledge of Spanish civilization. Lectures and individual oral participation in Spanish. Intended primarily for those who plan to teach Spanish or to do graduate work in Spanish. Prerequisite: Spanish 113 or 114 or equivalent.

146. LATIN-AMERICAN CIVILIZATION. Sem. 2. Cr. 3. A course intended to further the student's conversational ability and his knowledge of Latin-American civilization. Lectures and individual oral participation in Spanish. Intended primarily for those who plan to teach Spanish or to do graduate work in Spanish. Prerequisite: Spanish 113 or 114 or equivalent.

153. TWENTIETH-CENTURY SPANISH LITERATURE. Sem. 1. Cr. 3. A study of the literature of twentieth-century Spain with emphasis on the works of the Generation of 1898. Conducted entirely in Spanish. Prerequisites: Spanish 113 and 121 or 122, or equivalents.

154. TWENTIETH-CENTURY SPANISH LITERATURE. Sem. 2. Cr. 3. A continuation of the study of twentieth-century Spanish literature with emphasis on the development of the modern drama and novel. Conducted entirely in Spanish. Prerequisites: Spanish 113 and 121 or 122, or equivalents.
VALPARAISO UNIVERSITY

THE DEPARTMENT OF GEOGRAPHY

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

Valparaiso University is one of the map depositories of the Army Map Service, from which the department currently receives and files thousands of country or regional maps of all continents.

Geography courses in the department yield social science credit; courses 41, 42, and 44 give natural science credit.

51. SOCIAL GEOGRAPHY. Each sem. Cr. 3. A brief survey of the principles and concepts of geographic thought and techniques in the interpretation of human society, economy, and government, applied regionally to the analysis of world problems and potentials of peoples inhabiting lands of relatively low population and/or comparatively low standards of living. No prerequisite.

52. SOCIAL GEOGRAPHY. Each sem. Cr. 3. Objectives, design, and conceptualizations of course material and methodology are similar to those of Social Geography 51, but applied to geographic regions of relatively dense populations combined with generally high standards of living. The cultural-physical resource factors of such regions are summarily treated in historical-political perspective of the major world powers. Prerequisite: Geography 51.

64. ECONOMIC AND COMMERCIAL GEOGRAPHY. (Also offered as Economics 106.) 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 inter-regional and international trade, centers and routes of trade. Not open to students who have had Geography 151 or 156. No prerequisite.

68. CONSERVATIONAL GEOGRAPHY. Each sem. Cr. 3. The course treats of the current social and economic problems arising from the wasteful exploitation of our natural resources. Among the topics considered are: the indispensability of soils and minerals, forests, waters, and wildlife to community and national wellbeing; the practical application of geographic principles and technique toward the elimination of wasteful and inefficient methods of utilizing such resources; and the part that regional planning plays in the program of developing a sound economy of land use. Prerequisites: six hours in geography, junior standing, or enrollment in teacher training program.

125. (Formerly Physical-Cultural Anglo-America.) REGIONAL ANALYSIS OF ANGLO-AMERICA. Sem. 1. Cr. 3. A regional treatment of Anglo-America.


THE COLLEGE OF ARTS AND SCIENCES

which is topically oriented. Covered are such topics as urbanization, industrialization, agriculture, poverty, and population migration. The students analyze maps and census statistics in the search for regional generalizations. Open to students who have completed six credit hours in social science, and to Upper-Division students majoring in any of the other social sciences.

130. 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.

131-139. REGIONAL GEOGRAPHY. Each sem. Cr. 3. A geographic interpretation of the physical, social, political, industrial, and commercial patterns of a particular region in relation to national and international regions will be offered. A regional topic such as Latin America, Europe, Africa, Asia, Soviet Union, Near East, and Australia-Oceania will be offered. Open to students who have completed six hours in geography, and to Upper-Division students majoring in any of the other social sciences.

151. AGRICULTURAL GEOGRAPHY. Sem. 1. 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 and geology, or 6 hours in geography and 6 hours in economics.

156. MANUFACTURAL GEOGRAPHY. Sem. 2. Cr. 2. An advanced study of the geographic distribution of the major manufacturing industries of the world, especially those of the United States, in relation to the location of raw materials, power, labor, transportation facilities, markets, and the strategy of regional position in time of war. Prerequisites: 10 hours in geography and physical geography, or 6 hours in geography and 6 hours in economics.

185. POLITICAL GEOGRAPHY. Sem. 1. Cr. 2. An investigation of political problems of selected regions or nations in terms of the material and ethnic factors of the environment which are considered essential in understanding the development of civilization. Patterns of population and land utilization, natural resources, the economic interdependence of nations, international trade, and geo-political problems of the United Nations are type topics serving as the geographic basis for discussions and exercise work. Prerequisites: 10 credit hours in geography and physical geography, or 6 hours in geography and 6 hours in history, government, economics, or sociology.

188. (Formerly Geographic Field Techniques.) GEOGRAPHIC ANALYSIS. Sem. 2. Cr. 3. A course designed to teach the techniques of data collection and quantitative analysis. Prerequisite: 15 credit hours in geography.

189. CARTOGRAPHY. Each sem. 0+6, Cr. 3. An introduction to the reading, interpretation, and construction of maps and map projections. Required of geography majors. Prerequisite: junior standing. Laboratory fee, $5.00.

190. CARTOGRAPHY. Each sem. 0+6, Cr. 3. This course is concerned with practical map compilation, and the application of professional construction and reproduction techniques. Prerequisite: Geography 189. Laboratory fee, $5.00.

192. URBAN PLANNING. Sem. 1. 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.

*Offered only in the Overseas Study Program.
195. GEOGRAPHIC PROBLEMS. Sem. 1. Cr. 2 or 3*. A seminar on contemporary social, economic, and political-military issues based on student self-selected topics. Designed to develop student initiative in learning how to analyze, speak, and write geographically, the course is so structured that members of the class are given the opportunity to comment weekly on the progress of each student's project in the matter of geographic relevance. Type topics deal with the geographic aspects of national conflict, population explosion, urban sprawl, industrial-transportation complexes, underdeveloped or maladjusted urban or rural landscapes, racial tensions, environmental pollution and other health hazards. Prerequisites: 12 credit hours in geography and permission of the chairman of the department. May involve a limited amount of field work.

196. (Formerly Geographic Problems.) SEMINAR IN CURRENT THEMES IN GEOGRAPHY. Sem. 1. Cr. 3. This course is designed to examine current spatial problems from the geographic point of view. A different theme will be selected for each time the course is offered. Such topics as rural slum planning, ghetto and ethnic communities, pollution, and environmental perception will be considered. Prerequisites: senior major and permission of the instructor. May involve field work.

198. GEOGRAPHIC WRITING. Sem. 2. Cr. 3. A review of the best examples of geographic writing and an introduction to the techniques of scholarly writing in the field of geography. Prerequisite: limited to juniors and seniors with a minimum of 20 hours in geography, inclusive of current semester registrations.

199. THE PHILOSOPHY AND PROFESSION OF GEOGRAPHY. Each sem. Cr. 2. A pro-seminar course treating of the nature and technique of geographic discipline, and the application of geographic training to various professional pursuits, such as teaching, business, planning, and government service. Prerequisite: limited to juniors and seniors with a minimum of 20 hours in geography, inclusive of current semester registrations.

For Undergraduates and Graduates

205. HISTORICAL GEOGRAPHY OF THE UNITED STATES. Sem. 2. Cr. 2. A regional treatment of the exploration, colonization, territorial expansion, migration, transportation, settlement, and economic development of our country, integrated in relation to the physical framework of the environment in which and with which American regional patterns of culture have come to be established. The course is primarily designed for students majoring in one or another of the social sciences. Prerequisites: Geography 198, consent of the chairman of the department.

210. THE GEOGRAPHY OF WORLD AFFAIRS. Sem. 2. Cr. 2. A workshop course to develop the technique of interpreting current world events in the geographic framework in which such events occur. From newspapers and periodicals, students clip articles for critical review and rewrite them in the form of "chorograms." Prerequisites: 10 credit hours in geography or 6 hours in geography and 6 hours in history, government, economics, or sociology, or consent of the chairman of the department.

215. AREA FIELD STUDY. 0-4, Cr. 2. A laboratory and field course designed to give insight into the nature and purpose of geographic field work. It involves such topics as mapping techniques, physical and cultural pattern analysis, rural and urban functions, and an intensive study of a selected area. Prerequisite: consent of the chairman of the department.

For Graduates

305. GEOGRAPHIC THought. Cr. 3. A conceptual approach to the content and contributions of geography in general education and in world society. Geographic facts and ideas are developed under the following categories: nature and scope of geographic thought; comparative Western and non-Western cultures, differentiated in space and time; the geographic facts and ways of life; procedures and methods of identifying geographic investigation of human phenomenology; the Christian ethic of earth stewardship; geography as planning 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.

COURSES IN PHYSICAL GEOGRAPHY

(Offering Natural Science Credit)

For Undergraduates

41. GEOMORPHOLOGY. Each sem. 2+4, Cr. 4. An introduction to the surface features of the earth. This course is designed to aid the general student in appreciating the meaning of earth features, as well as to supply basic study of landforms for students majoring or minoring in the field of geography. Laboratory and field studies. Laboratory fee and field trip fee, $10.00.

42. REGIONAL GEOMORPHOLOGY OF THE UNITED STATES. Sem. 2. 2+4, Cr. 4. A treatment of the fundamental principles of physiographical, stratigraphical, structural, dynamical, and historical geology; consideration of the theoretical phases, practical applications, and historical development of the science. Laboratory and field studies. Prerequisite: Geography 41. Laboratory fee and field trip fee, $10.00.

44. METEOROLOGY AND CLIMATOLOGY. Each sem. 2+4, Cr. 4. A study of the structure and functions of the atmosphere. Laboratory exercises supplement lectures in the treatment of air mass analysis, weather maps and forecasting, and patterns of climate. Laboratory fee, $5.00. No prerequisite.

*Offered only in the Overseas Study Program.
THE DEPARTMENT OF GOVERNMENT

Assistant Professor Trost (Chairman); Professors Huegli, Mundinger, and Wehling; Assistant Professor Balkema; Mr. Carew, Mr. Krueckenberg, and Mr. Nolte

MAJOR—A major in government consists of 30 credit hours including Government 1, 4, 41, 53, 54, and 199.

MINOR—A minor in government consists of 18 credit hours including Government 1, 4, 41, and either 53 or 54.

PREPARATION FOR THE FOREIGN SERVICE—A student majoring in this department may prepare himself for the Foreign Service Officer Examination given by the Department of State by completing a program which will be outlined for him by the head of the department. Such a student should enter the program not later than the first semester of his junior year. See page 129 for further details.

The Community Research Center, an integral part of the department’s activities, provides facilities and resource materials for several courses.

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 126. For information concerning the Urban Affairs Semester Program see page 127. For information concerning the Semester on the United Nations see page 127.

COURSES IN GOVERNMENT

For Undergraduates

1. THE GOVERNMENT OF THE UNITED STATES. Each sem. Cr. 3. A study of the structure and function of the federal system, with emphasis on the national government.

2. STATE AND LOCAL GOVERNMENT IN THE UNITED STATES. Each sem. Cr. 3. A study of the structure and function of states, municipalities, and other units of local government. Each student selects a local unit for detailed study.

3. COMPARATIVE GOVERNMENT. Each sem. Cr. 3. A comparative study of several of the leading foreign governments.

10. THE FIELD OF LAW. Sem. 1. Cr. 1. A course designed to help students prepare for the professional study of law. Open to all students. (This course may not be counted toward a major or minor in government.)

41. THE ELEMENTS OF GOVERNMENT. Each sem. Cr. 2. An introduction to the philosophy, art, and science of government, including bibliography, terminology, concepts, and approaches; and the relation of politics to other disciplines. Primarily for majors and minors in government.

NOTE: The following courses are not open to freshmen:


54. POLITICAL THOUGHT II. Sem. 2. Cr. 3. A chronological survey of political ideas from Hobbes to the present.

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 Government 65. Prerequisite: Government 65.

NOTE: The following courses are not open to sophomores:

111. THE DIPLOMACY OF THE UNITED STATES. Sem. 1. Cr. 3. A study of the development of American diplomatic problems and practices, including materials on the Foreign Service. Prerequisite: Government 1. (Given in alternate years.)

112. AMERICAN FOREIGN POLICY. Sem. 2. Cr. 3. A study of contemporary American foreign policy including its implementation and execution. Prerequisite: Government 1. (Given in alternate years.)

113. AMERICAN DEMOCRATIC THOUGHT. Sem. 1. Cr. 3. A study of American political ideas from colonial days to the present as found principally in the writings of leaders in the political life of our country. Prerequisite: Government 1. (Given in alternate years.)

153. THE POLITICS OF WESTERN EUROPE. Sem. 1. Cr. 3. A detailed study of the contemporary Western European political scene, considering the domestic and foreign policies of the states involved, with special stress on plans for integrated action. Prerequisite: Government 4 or 66. (Given in alternate years.)

154. THE POLITICS OF DEVELOPING STATES. Sem. 2. Cr. 3. A survey of the governments and political problems of selected newly-independent, underdeveloped states with special reference to some of the new republics of Africa. Prerequisite: Government 4 or 66.

155. THE POLITICS OF THE SOVIET UNION. Sem. 1. Cr. 3. A detailed study of the internal and external politics of the U.S.S.R. with special reference to the states within the Soviet sphere of hegemony. Prerequisite: Government 4 or 66. (Given in alternate years.)

157. THE POLITICS OF THE MIDDLE EAST. Sem. 1. Cr. 3. A survey of the governments of the leading states of the Middle East; their relations with the Western states; and their place in contemporary world politics. Prerequisite: Government 4 or 66. (Given in alternate years.)

162. PUBLIC ADMINISTRATION. Sem. 1. Cr. 3. An introduction to the basic principles of administrative organization and management in government. Prerequisites: Government 1 and junior standing.

191. THE TEACHING OF SOCIAL STUDIES. Sem. 1. Cr. 2. (See Education 191.) A study of the methods of teaching social studies in secondary schools. Prerequisite: admission to Supervised Teaching. (This course may not be counted toward a major or minor in government.)

195. SPECIAL PROBLEMS IN GOVERNMENT. 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 approval of the chairman of the department.

199. PRO-SEMINAR IN GOVERNMENT. Each sem. Cr. 2. Class discussion of contemporary developments in the field of government, and a paper on a selected topic prepared by each student for class presentation and discussion. 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 Undergraduates and Graduates

203. PROBLEMS OF STATE AND LOCAL GOVERNMENTS. Sem. 1. Cr. 3. A study in depth of several important contemporary problems on the state or municipal levels in the United States. Given in cooperation with the Community Research Center. Prerequisite: Government 2 or consent of the instructor.

205. AMERICAN POLITICAL PARTIES. Either sem. Cr. 3. An intensive study of the origin, history, composition, policies, functions, and activities of political parties in the United States, including the evolution and operation of the party system. Prerequisite: Government 1 or consent of the chairman of the department.

206. THE CONSTITUTION OF THE UNITED STATES. Sem. 2. Cr. 3. An examination of great constitutional issues, decided and undecided, in the light of the contemporary interpretation of the Constitution. Prerequisite: Government 1 or consent of the chairman of the department.

207. CHURCH AND STATE. Sem. 1. Cr. 2. An examination into some of the ramifications of church-state relationships in the United States. Prerequisite: senior standing. (Given in alternate years.)

209. BASIC POLITICAL ISSUES. Each sem. Cr. 2. 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.

210. RECENT POLITICAL THOUGHT. Sem. 2. Cr. 3. A survey, beginning with Hegel, of the major attempts to confront the crisis of political order in the contemporary world. Prerequisites: Government 53 and 54 or consent of the chairman of the department.

213. SOVIET COMMUNISM. Sem. 1. Cr. 2. A detailed study of Marxism as modified and practiced in the U.S.S.R. and in other communist states. Prerequisites: Government 53 and 54 or consent of the chairman of the department.

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.)
THE DEPARTMENT OF HISTORY

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

MAJOR—A major in history consists of 30 credit hours including History 1, 2, and 185. It is recommended that the student divide his courses among those offered in the various areas, and that he take six hours in related fields in the social sciences above the twelve-hour lower division social science requirement. Students planning on graduate work are strongly urged to take at least one problem seminar (History 193 or 196) and to work toward reading proficiency in at least one modern foreign language.

MINOR—A minor in history consists of 18 credit hours including History 1 and 2.

EXEMPTION FROM PREREQUISITES—Examinations will be given to permit qualified students to place out of History 1, 2, 35, and 36.

APPROVAL OF SCHEDULES—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. In addition, all majors above the freshman level are requested to select a member of the department for general advising with regard to their history programs.

COURSES IN HISTORY†

For Undergraduates

1. WESTERN CIVILIZATION I. Cr. 3. An introduction to the historical development of the civilization 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.

35. UNITED STATES TO 1865. Cr. 3. A survey of the history of the American people from the age of discovery to the end of the Civil War, with emphasis on the development of democratic ideas and institutions.

36. UNITED STATES SINCE 1865. Cr. 3. A survey of the history of the American people from the end of the Civil War to the present, with emphasis on the development of the United States as an industrial and world power.

60. EAST ASIAN CIVILIZATION TO 1800. Sem. 1. Cr. 3. A survey of the traditional culture of East Asia prior to the impact of Western civilization. Prerequisite: sophomore standing.

61. EAST ASIAN CIVILIZATION SINCE 1800. Sem. 2. Cr. 3. A survey of the modern history of East Asia with emphasis on the Western impact on traditional institutions. Prerequisite: sophomore standing.


††For courses given in Christ College, see page 226 of this Bulletin.
144. CIVIL WAR AND RECONSTRUCTION. Cr. 2. A study of some of the major problems of nationalism and sectionalism, the Civil War, and the postwar changes in American life. Prerequisite: History 35 and 36 or consent of the instructor.

148. CONSTITUTIONAL HISTORY OF THE UNITED STATES. Cr. 3. A survey of the development of American constitutional theory and practice from English origins to the present. Prerequisites: History 35 and 36 or consent of the instructor.

151. LATIN AMERICA I. Sem. 1. Cr. 3. A survey of the major periods of Latin-American history from the pre-Columbian Indian civilizations to the end of the Wars of Independence, 1824.

152. LATIN AMERICA II. Sem. 2. Cr. 3. A survey of the republics from the early 19th century to the present, relating contemporary Latin-American problems to the current world situation.

160. HISTORY OF CHINA TO 1800. Sem. 1. Cr. 3. A study of the political, economic, social, and cultural development of traditional China prior to the arrival of Western power. Prerequisite: junior standing.

161. HISTORY OF CHINA SINCE 1800. Sem. 2. Cr. 3. A study of China's response to the Western challenge from the Opium War to the Communist victory. Prerequisite: junior standing.

185. INTRODUCTION TO HISTORICAL RESEARCH. Cr. 3. A pro-seminar on the nature, tools, and technique of research in history. Student projects supervised by members of the department. Course required of majors. Prerequisites: 9 credit hours beyond History 1 and 2.

191. THE TEACHING OF SOCIAL STUDIES. 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 this department.

193. SEMINAR IN EUROPEAN HISTORY. Cr. 3. The seminar in European History provides a small-group educational experience for interested majors and non-majors. The emphasis is upon research in and discussion of controversial themes and movements in European history which are not normally treated in depth in the other departmental offerings. The subject of the seminar will be determined by the instructor. Prerequisite: 14 credit hours of history or consent of the instructor.

196. SEMINAR IN UNITED STATES HISTORY. Cr. 3. The seminar in United States history provides a small-group educational experience for interested majors and non-majors. The emphasis is upon research in and discussion of controversial themes and movements which are not normally treated in depth in the other departmental offerings. The subject of the seminar will be determined by the instructor. Prerequisite: 14 credit hours of history or consent of the instructor.

For Undergraduates and Graduates

211. THE EMERGENCE OF MODERN EUROPE. Cr. 3. A study of the political and social-economic conditions of Europe during the 14th and 15th centuries with special emphasis on the development of the modern concept of the state and the emergence of the great powers which were to dominate future European politics. Prerequisite: consent of the instructor. (Given in alternate years.)

221. EUROPE, 1815-1871. Cr. 3. A study of Europe from the close of the Napoleonic Wars to the end of the Franco-Prussian War. Prerequisites: History 1 and 2 or consent of the instructor. (Given in alternate years.)

222. EUROPE, 1871-1918. Cr. 3. A study of Europe from the conclusion of the Franco-Prussian War to the end of World War I. Prerequisites: History 1 and 2 or consent of the instructor. (Given in alternate years.)

223. EUROPE SINCE 1918. Cr. 3. A study of European history from the end of World War I to the present. Prerequisites: History 1 and 2 or consent of the instructor.

227. EUROPEAN INTELLECTUAL HISTORY, 1890-1930. Cr. 3. A study of modern European thought through examination of significant thinkers and movements. Prerequisites: History 1 and 2 or consent of the instructor. (Given in alternate years.)

235. THE UNITED STATES FROM 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 secession movement of 1860-61. Prerequisites: History 35 and 36 or consent of the instructor.

240. TWENTIETH CENTURY AMERICA I. Sem. 1. Cr. 3. An intensive study of the history of the United States from 1900 to 1932. Prerequisites: History 35 and 36 or consent of the instructor.

241. TWENTIETH CENTURY AMERICA II. Sem. 2. Cr. 3. A study of the history of the United States from 1932 to the present. Prerequisites: History 35 and 36 or consent of the instructor.

245. DIPLOMATIC HISTORY OF THE UNITED STATES I. Sem. 1. Cr. 3. A study of the foreign relations of the United States from the American Revolution to the Spanish-American War. Prerequisites: History 35 and 36 or consent of the instructor. (Given in alternate years.)

246. DIPLOMATIC HISTORY OF THE UNITED STATES II. Sem. 2. Cr. 3. A study of the foreign relations of the United States from the Spanish-American War to the present. Prerequisites: History 35 and 36 or consent of the instructor. (Given in alternate years.)

259. HISTORY OF AMERICAN THOUGHT. Cr. 3. An introduction to America's intellectual history from the 17th century to the present through a study of some of the significant thinkers and movements. Prerequisites: History 35 or 36 or consent of the instructor.

304. PROBLEMS IN EUROPEAN DIPLOMATIC HISTORY. Cr. 3. This course will be presented as a readings-seminar treating the major developments in European diplomatic history in the world setting of the nineteenth and twentieth centuries.

306. STUDIES IN STUART ENGLAND. Cr. 3. Through readings, discussions, and reports, this course will concentrate on the religious, political, economic, and social problems which led a country with a long tradition of constitutional development down the thorny road of civil war and regicide, into unknown paths of political experiment, to an uneasy Restoration, and, a generation later, to a glorious Revolution which finally resolved the basic problem of sovereignty. Prerequisite: a course in English history or consent of the instructor.

317. THE EVE OF THE REFORMATION. Cr. 3. A study of the background of the Protestant Reformation. Attention will be focused on the economic, social, political, and intellectual changes which gave rise to the religious, theological, and ecclesiastic reform movements of the sixteenth century.

325. THE WESTERN TRADITION I. (Also offered as English 325.) Cr. 2. A study 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 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. Studies in United States History. Cr. 3. An intensive study of a significant period or movement in U.S. History. Prerequisite: six semester credits in U.S. History or consent of the instructor.

344. Post-War America, 1865-1900. Cr. 3. An analysis of selected problems in the development of the United States from the end of the Civil War to the turn of the twentieth century. Attention will be centered upon the Negro in the new South, the urban-industrial transformation of the North, agrarian protest and revolt, and the disappearance of the last Western frontier.

356. Latin America in the Twentieth 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, where contact with the United States has been of greatest importance. Prerequisite: consent of the instructor.

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 COLLEGE OF ARTS AND SCIENCES

THE DEPARTMENT OF HOME ECONOMICS

Professor Simon (Chairman); Professor Leoschke; Assistant Professor Lerud; Mrs. Manning*

**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—Students majoring in this department must complete a minimum of 32 credits in Home Economics, including Home Economics 5, 7, 8, 11, 140, and 195, Speech 40, and 4 credits in Art† or equivalents. In addition, they must also complete Psychology 51, Sociology 101, Chemistry 43 and 44, and Biology 50 and 115 among those offered for completion of the natural science and social science requirements of the College of Arts and Sciences.

Minor—Students taking a minor in this department must complete 13 credit hours of Home Economics, including Home Economics 7 and 8 and in addition Sociology 101.

Preparation for Services Concerned with Family Relations and Human Development—A student majoring in this program may prepare herself for areas concerned with Human Development and Family Relations by completing a program outlined for the student by the chairman of the department. Such a student should enter this program not later than the second semester of the sophomore year. This program is available to students with a background in Biology, Economics, Home Economics, Psychology, and/or Sociology. See page 127 for further details on the Merrill-Palmer Semester.

Approval of Schedules—All students taking a major or minor in this department and all students planning to teach home economics must have their schedules approved by the chairman of the department at the beginning of each semester.

Courses in Home Economics

For Undergraduates

***5. Foods. Sem. 2. 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+6, Cr. 3. Basic principles underlying the preparation of foods with emphasis on the ability to judge quality in foods. Laboratory fee, $20.00.

***7. Human Nutrition. 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.


**Twelve credits, other than economics, earned in the College of Business Administration may be counted toward the B.S. in H.E. degree.

†Students preparing themselves for careers in the field of dietetics must substitute Biology 110 for the 4 credit hours in art. Other students may substitute GE 4 (Elementary Graphics) for 2 of the 4 credit hours in art.

***Students who are not majoring in Home Economics may take these courses on an S/U grading basis.
*8. ART IN DAILY LIVING. Each sem. 2+2, Cr. 3. A study of the principles of art in the home, with emphasis on the development of good taste in costume, home furnishing, and creative design. Laboratory work in applied art problems. Laboratory fee, $5.00.

*11. CLOTHING AND TEXTILES I. Sem. 1. 3+0, Cr. 3. Significance of clothing and textiles in relation to social, psychological, and economic factors. Special emphasis given to the factors involved in clothing selection.

*12. CLOTHING AND TEXTILES II. Each sem. 1+6, Cr. 3. Basic principles of clothing construction and design. Evaluation of various methods of construction in relation to style, fabric characteristics, and end use. Laboratory fee, $5.00.

51. MEAL MANAGEMENT. Sem. 2. 1+6, Cr. 3. 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. Prerequisites: Home Economics 6 and Laboratory fee, $20.00.

*52. CLOTHING CONSTRUCTION III. Sem. 1. 1+6, Cr. 3. Clothing construction, with emphasis upon tailoring. A field trip is made to a suit and coat factory. Prerequisite: Home Economics 12 or consent of the chairman of the department. Laboratory fee, $5.00. (Given in alternate years.)

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. Open only to students preparing in dietetics. This course may not be counted toward a major or minor in chemistry. Prerequisite: Chemistry 44.

101. FAMILY HEALTH. Sem. 1. 2+4, Cr. 2. A study of disease prevention and family health concerns. Practical home nursing techniques and procedures are also incorporated. Prerequisite: Biology 115 or consent of the chairman of the department.

102. INTERIOR DESIGN. Sem. 1. 3+0, Cr. 3. Application of the principles of art to the design of the home and its furnishings as demonstrated in historic and contemporary dwellings. Field trips to a furniture factory and centers for interior design. Prerequisite: Home Economics 8 or consent of the chairman of the department.

*104. ADVANCED TEXTILES. Sem. 2. 2+2, Cr. 3. A study of the specific properties of fibers, yarn and fabric construction and finishing, in relation to end-performance of textiles; consumer problems in selection and care of textiles in home furnishings and wearing apparel; a survey of the historic and aesthetic significance of textile design. Prerequisites: Home Economics 11 and junior standing. Laboratory fee, $5.00.

*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.

125. EXPERIMENTAL FOODS. Sem. 1. 1+4, Cr. 3. A course in the physical chemistry of food processing. Prerequisites: Home Economics 44 and Chemistry 44. Laboratory fee, $15.00. (Given in alternate years.)

*131. CLOTHING DESIGN. Sem. 1. 1+4, Cr. 3. Fundamentals of flat-pattern designing and of draping on personal dress forms. Prerequisite: Home Economics 12. Laboratory fee, $5.00. (Given in alternate years.)

*Students who are not majoring in Home Economics may take these courses on an S/U grading basis.
THE DEPARTMENT OF MATHEMATICS

Associate Professor Sorensen (Chairman); Professors K. Carlson, Foster, and Hallerberg; Associate Professors N. Hughes, Lennes, and Mundt; Assistant Professor L. Carlson***, R. Deiers**, Krebs, Maschhoff****, Reynolds, Sanford, and Wagenblast; Miss Johnson; Visiting Professor H. Hughes

MAJOR—A major in mathematics consists of at least 28 credit hours with no more than 16 credit hours in courses with numbers below 100. A major must include 193 and 194; no more than 16 credit hours in courses with numbers below 210; and one of the following: 175, 180, or 220. Students having a major in view should begin their mathematics in their freshman year.

MINOR—A minor in mathematics consists of at least 12 credit hours, including not more than 8 credit hours from courses 51, 52, 75, or 76; and including 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 at the beginning of each semester.

NOTE—Eight hours in mathematics satisfies one of the two lower-division natural science requirements in the College of Arts and Sciences. However, these eight hours must include one course in calculus.

A placement examination in mathematics is given every fall during the orientation period. This examination should be taken by a) all students planning to register for Mathematics 75, b) students with a good background in mathematics planning to take Mathematics 52 or 53 as their first course in mathematics, and c) students who desire more counseling information before registering for any mathematics course.

COURSES IN MATHEMATICS

For Undergraduates

401. 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 in this course is restricted to students in the special curriculum in elementary education. Prerequisite: concurrent registration in Mathematics 43 or 44.

43. ELEMENTARY MATHEMATICS I. Sem. 1. Cr. 4. This course is designed for 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. This course may not be counted toward a major or a minor in mathematics nor toward meeting the natural science requirements of the Lower Division.

44. ELEMENTARY MATHEMATICS II. Sem. 2. Cr. 4. This is a continuation of Elementary Mathematics I. Topics include logic; intuitive geometry, the nonmetrical geometry of sets of points, geometric figures in the plane and space, the axiomatic approach. Concepts of algebra, equations, inequalities, graphs,

THE COLLEGE OF ARTS AND SCIENCES

polynomials. This course may not be counted toward a major or a minor in mathematics. Prerequisite: Mathematics 43.

51. INTRODUCTION TO MODERN MATHEMATICS. Each sem. Cr. 4. A course in the fundamentals of mathematics for students not majoring in mathematics or the physical sciences. Sets, equations, inequalities, functions and their graphs, and introductory analytic geometry. Prerequisites: one year of high school algebra and one year of high school geometry.

52. INTENSIVE CALCULUS WITH APPLICATIONS. Each sem. Cr. 4. This course is an intensive treatment of the calculus for students not majoring in mathematics or the physical sciences. The topics include differential and integral calculus, the exponential and logarithmic functions, and some applications to biology, business, and the social sciences. Completion of this course fulfills one of the fields of the Lower-Division natural science requirement in the College of Arts and Sciences. Prerequisite: Mathematics 51 or consent of the chairman of the department.

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, linear programming, and game theory, with applications to biology, management, and the social sciences. Prerequisite: Mathematics 51 or consent of the chairman of the department.

54. STATISTICAL ANALYSIS. Sem. 2. Cr. 4. A course in statistical methods for students not majoring in mathematics or the physical sciences. 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 biology and the social sciences. This course is not open to any student who has had a first statistics course in any department. This course may not be counted toward a major in mathematics. Prerequisite: Mathematics 52 or the equivalent.

75. (Formerly Introductory Calculus with Analytic Geometry.) CALCULUS I. Each sem. Cr. 4. This course is designed for students majoring in mathematics or physical science. Emphasis is placed on definitions and logical arguments for a better understanding of the basic concepts and techniques. Topics include a review of set theory, induction, and the real number system; functions, absolute value and inequalities; step functions and area; the definite and indefinite integral with applications; limits, continuity, and derivatives with applications. Prerequisite: three years of high school mathematics above the level of general mathematics. Knowledge of trigonometry is strongly recommended.

76. (Formerly Introductory Calculus with Analytic Geometry) CALCULUS II. Each sem. Cr. 4. A continuation of Mathematics 75. Additional topics include an introduction to FORTRAN programming and the use of the computer in the study of calculus; the Fundamental Theorem of the Calculus; additional techniques of integration; solutions of differential equations; curves, limits, continuity, and derivatives with applications. Prerequisite: Mathematics 75 or consent of the chairman of the department.

77. (Formerly Intermediate Calculus.) CALCULUS AND LINEAR ALGEBRA. Each sem. Cr. 4. This course is designed for students who plan to major in mathematics or a physical science. The topics include the use of FORTRAN; vector algebra and applications, the calculus of vector-valued functions; linear spaces, linear transformations and matrices; determinants, eigenvalues, and eigenvectors. Prerequisite: Mathematics 76 or consent of the chairman of the department.

78. CALCULUS AND DIFFERENTIAL EQUATIONS. Each sem. Cr. 4. A continuation of Mathematics 77. Additional topics include linear differential equations and systems of differential equations, multiple integrals, line and surface integrals, applications and elementary numerical analysis. Prerequisite: Mathematics 77.

84. COMPUTER PROGRAMMING AND NUMERICAL COMPUTATION. (Also offered as Electronics 107.) Each sem. Cr. 3. The purpose of this course is to acquaint
10. ALGEBRAIC STRUCTURES. Sem. 1. Cr. 3. A careful study of the foundations of algebra. Topics include: relations, operations, and set algebra; the integers, congruences, and number systems; elementary properties of groups, rings, and fields. Prerequisite: Mathematics 76 or the equivalent.

11. LINEAR ALGEBRA. Sem. 2. Cr. 3. Introduction to the theory of matrices over the real and complex numbers. Topics include the algebra of matrices, finite dimensional vector spaces, linear transformations, inner products, eigenvalues and eigenvectors, canonical forms, and determinants. Prerequisite: Mathematics 52 or the equivalent. (Not open to students who have taken Mathematics 211.)

150. ELEMENTS OF GEOMETRY I. Sem. 2. Cr. 3. A study of the basic concepts of geometry: incidence and separation, congruence, parallelism, similarity. Consideration of consistency. Introduction to finite and non-Euclidean geometries. Discussion of the impossible construction problems. Prerequisite: Mathematics 52 or the equivalent.

152. ELEMENTS OF GEOMETRY II. Sem. 2. Cr. 3. Geometric transformations and invariants. Topics from projective and non-Euclidean geometries. Prerequisite: Mathematics 52 or the equivalent. (Given in alternate years. Offered in 1970-1971.)

163. MATHEMATICAL MODELS IN THE SOCIAL SCIENCES. (Also offered as Management and Marketing 144.) Cr. 3. This course is intended for mathematics minors who major in a social science. Topics will be chosen according to the interests of the students. These may include: linear and dynamic programming; the Estes learning model, inventory models, Leonitoff input-output model, and simulation techniques. Prerequisites: Mathematics 52 and 53 or the equivalent. (Offered upon sufficient demand.)

166. HISTORY OF MATHEMATICS. Sem. 2. Cr. 3. A survey of the development of mathematics from the earliest time to the present. Special emphasis on topics in geometry, algebra, and elementary calculus which are related to secondary school mathematics. This course may not be counted toward a minor in mathematics. Prerequisite: Mathematics 52 or the equivalent. (Given in alternate years. Not offered in 1970-1971.)

173. INTRODUCTION TO COMPLEX VARIABLES AND APPLICATIONS. Sem. 2. Cr. 3. Elementary theory of Laplace transforms; complex numbers; analytic functions; integrals; derivatives; power series; residues; conformal mapping; applications to partial differential equations. Prerequisite: Mathematics 78.

175. ELEMENTS OF MODERN ANALYSIS. Sem. 1. Cr. 3. A careful study of the topology of the real line; continuity, Riemann integration, differentiation and convergence in real n-space. Prerequisite: Mathematics 78.

176. ELEMENTS OF MODERN ANALYSIS. Sem. 2. Cr. 3. A continuation of Mathematics 175. Prerequisite: Mathematics 175.

180. APPLIED MATHEMATICS. Sem. 1. Cr. 3. Elements of vector analysis; power series solutions of differential equations; Bessel, Gamma functions and Legendre polynomials; elliptic integrals. Prerequisite: Mathematics 78.

181. APPLIED MATHEMATICS. Sem. 2. Cr. 3. Fourier series and orthogonal functions; Sturm-Liouville problems; partial differential equations and boundary value problems; operator theory; Green's function. Prerequisite: Mathematics 180.

187. NUMERICAL ANALYSIS I. Sem. 1. Cr. 3. Topics from the theory of numerical analysis include: matrices and matrix algebra and solution of systems of linear equations; curve fittings; numerical solution of differential equations. Prerequisite: Consent of the chairman of the department and Mathematics 78 or equivalent.

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, Measure and Integration. Partial Differential Equations, or Functional Analysis. Prerequisite: consent of the chairman of the department. Specific course requirements will depend on the content. (Offered upon sufficient demand.)
220. Mathematical Analysis. Sem. 2. Cr. 3. Set nomenclature and set algebra. Real number system as an extension of other number systems. Sentences and equations. Identities, relations, functions, and graphs. Point sets and sequences. Geometric and arithmetic progressions. Limits. Derivatives and integrals. Prerequisite: Mathematics 78 or consent of the chairman of the department.

243. Structures of Number Systems. Cr. 3. Vocabulary and symbolism of sets. Language and nature of deductive reasoning. Number theory and numeration systems. Number systems and their properties. Modular number systems and groups. Postulational method and a search for structure. This course is intended for teachers in the elementary schools. Not open to students who have had a year of calculus.

244. Fundamentals of Geometry. Cr. 3. Informal and non-metric geometry of sets of points. Geometric figures in the plane and space. Development of precise language, the nature of proof, and structure as exemplified in geometry. This course is intended for teachers in the elementary school. Not open to students who have had a year of calculus. Prerequisite: Mathematics 243 or the equivalent.

THE DEPARTMENT OF MUSIC

Professor Gehring* (Chairman); Professors Hoelty-Nickel, Powell, and Wienhorst; Associate Professors Eifrig, Kroeger, and McCall; Assistant Professors Aller, Fleming, Hannewald**, Sumrall, and Telschow

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 102 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 candidate for the Bachelor of Arts degree who wishes to major in music must complete at least thirty-three credit hours in music, which must include sixteen credit hours of theory, eight credit hours of history and literature of music beyond Music 7 and 8, and eight credit hours of applied music, which must include four credit hours of class piano. He must pass all the performance tests set for him by this department.

MINOR—A candidate for the Bachelor of Arts or Bachelor of Science degree who wishes to minor in music must complete eighteen credit hours in music, which must include Music 7, 8, 13, 14, and six credit hours of applied music, which must include two credit hours of class piano. In addition, he 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 137 credit hours for a major in church music and 128 credit hours for a major in 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 curriculum for the church music major is outlined on page 187 and the curriculum for applied music majors is outlined on page 187.

Three areas of concentration are offered the student majoring in church music: organ, voice, and composition. 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 188. 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 133 credit hours if his area of concentration is either vocal or instrumental, and he must earn a total of 137 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 Education

#### A. General Education Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1, 2, 51</td>
<td>9</td>
</tr>
<tr>
<td>Survey of Music Literature 7, 8</td>
<td>4</td>
</tr>
<tr>
<td>Natural Science</td>
<td>16</td>
</tr>
<tr>
<td>Social Science</td>
<td>12</td>
</tr>
<tr>
<td>General Psychology 51</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Religion</td>
<td>8</td>
</tr>
</tbody>
</table>

**TOTAL:** 54

#### B. Professional Education Requirements:

**PROFESSIONAL EDUCATION**

- Principles and General Methods of Teaching in the Secondary Schools 190: 4
- Introduction to Education 62: 3
- Educational Psychology 101: 3
- Adolescent Development and Guidance 189: 2
- High School Music Methods 191: 2
- Supervised Teaching 194: 7

**TOTAL:** 21

#### C. Music Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Vocal or Instrumental</th>
<th>Area Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Theoretical Music:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music Theory 13, 14, 63, 64</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>History of Music 103, 104</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Conducting 163</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Choral Conducting 164</td>
<td>2</td>
<td>(2, or 2)</td>
</tr>
<tr>
<td>Instrumental Conducting 205</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Orchestration 162</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Elementary School Music Methods 109</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL:** 30

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Vocal or Instrumental</th>
<th>Area Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Applied and Ensemble Music:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principal Instrument</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Minor Performing Medium</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>(to include 4 credit hours of class piano and 2 instrumental techniques classes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ensemble</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

**TOTAL:** 28

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**REQUIREMENTS: Vocal or Instrumental Area Major**

<table>
<thead>
<tr>
<th></th>
<th>Vocal</th>
<th>Instrumental</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL NUMBER OF SEMESTER HOURS NEEDED FOR GRADUATION:</strong></td>
<td>133</td>
<td>133</td>
<td>137</td>
</tr>
</tbody>
</table>

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**THE COLLEGE OF ARTS AND SCIENCES**

### Courses in Theory, History, and Methods

**For Undergraduates**

1. **Introduction to Music.** Each sem. Cr. 3. A study of the materials of music and their use in the basic forms and styles of musical art.

2. **Music in History.** Sem. 2. Cr. 3. A study of music as a cultural expression in the history of Western Civilization. The major stylistic traditions of musical art. Prerequisite: Music 1.


5. **Music Theory.** Sem. 1. 2+4, 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.


7. **Music Theory.** Sem. 1. 2+4, Cr. 4. A continuation of Music 14 with special emphasis on the harmonic developments of the Classic and Romantic periods. Prerequisite: Music 14.

8. **Music Theory.** Sem. 2. 2+4, Cr. 4. A continuation of Music 63 with special emphasis on tonal counterpoint. Prerequisite: Music 63.

9. **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.

10. **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.

11. **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 1970-1971.)

12. **Orchestration.** Sem. 1. Cr. 2. The technique of scoring for orchestra and band. Prerequisite: Music 64. (Offered in 1979-1970 and in alternate years thereafter.)

13. **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.


**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.

*For the Fall Semester 1970-1971 only, this course may be taken for either 3 or 4 credits.*
183. LANGUAGE DICT.  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 1970-1971.)


191. HIGH SCHOOL MUSIC METHODS.  Sem. 1.  Cr. 2.  Principles of planning, organizing, and teaching the various kinds of music courses and activities in high school (see Education 191). Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in this department.

For Undergraduates and Graduates

201. PRO-SEMINAR IN MUSIC.  Sem. 1.  Cr. 2 or 3.  An intensive study of a limited area in the history or theory of music. This course may be repeated for credit. Prerequisite: Music 104.

203. PRO-SEMINAR IN PEDAGOGY OF MUSIC.  Sem. 1.  Cr. 2.  A consideration of the problems of teaching basic musicianship at all levels. Special attention will be given to the adapting of basic principles to the media of most interest to the members of the pro-seminar. Prerequisite: consent of the chairman of the department. (Offered in 1970-1971 and in alternate years thereafter.)

205. INSTRUMENTAL CONDUCTING.  Sem. 2.  Cr. 2.  A study of instrumental scores, conducting techniques, and materials. Prerequisite: Music 163.

207. ADVANCED CHORAL CONDUCTING.  Sem. 1.  Cr. 2.  A course for school musicians and professional church musicians dealing with advanced problems in choral conducting. Prerequisite: Music 164 or the equivalent.

208. ADVANCED CHORAL CONDUCTING.  Sem. 2.  Cr. 2.  A continuation of Music 207. Prerequisite: Music 207.

235. MUSIC THEORY.  Sem. 1.  Cr. 3.  A continuation of Music 64 with special emphasis on non-baroque contrapuntal techniques. Prerequisite: Music 64 or the equivalent.

236. MUSIC THEORY.  Sem. 2.  Cr. 3.  A continuation of Music 235 with special emphasis on contemporary techniques. Prerequisite: Music 235 or consent of the chairman of the department.

241. ADVANCED KEYBOARD HARMONY AND IMPROVISATION.  Sem. 1.  Cr. 2.  Practical keyboard work including harmonization of melodies, realization of figured basses, transposition, modulation, and improvisation. Open only to organ and piano majors with at least junior standing.


271. 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.

274. HISTORY OF CHURCH MUSIC.  Sem. 1.  Cr. 2.  A study of the development of church music from the earliest history of the Church in the Old Testament to the present, with special emphasis on the period from Luther to Bach. Prerequisites: junior standing and consent of the chairman of the department.

For Graduates

308. SEMINAR IN MUSIC HISTORY.  Sem. 2.  Cr. 3.  A study in depth of a specific period or problem in the history of music. Topics covered will change from semester to semester. This course may be repeated for credit. Prerequisite: Music 104.

THE COLLEGE OF ARTS AND SCIENCES

APPLIED MUSIC

For Undergraduates

NOTE: Students taking a major or a minor in music may count not more than twelve credit hours in applied music (including ensemble music) toward meeting any of the requirements for the degree of Bachelor of Arts. Of these twelve credit hours in applied music, not more than four credit hours may be in ensemble.

No other student may count more than eight credit hours of applied music (including ensemble music) toward meeting any of the requirements for any degree offered by the College of Arts and Sciences except the degree of Bachelor of Music Education and Bachelor of Music. Of the eight credit hours in applied music, not more than four credit hours may be in ensemble music.

A. PRIVATE VOCAL AND INSTRUMENTAL INSTRUCTION

One-half hour per week of private voice or instrumental 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 voice or instrumental 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. (Only candidates in the B.M. Program may take more than 2 semester credits per semester in a single instrument.)

VOICE.*

PIANO.

HARP/CHORD. (By audition only.)

ORGAN. (By audition only.)

STRINGED INSTRUMENTS: Violin, viola, violoncello, bass viol.

WOOD-WIND INSTRUMENTS: Flute, oboe, clarinet, bassoon, and saxophone.

BRASS-WIND INSTRUMENTS: Trumpet, French horn, trombone, baritone, and bass.

PERCUSSION INSTRUMENTS.

COMPOSITION: Cr. 2. A program of study dealing creatively with the problems of musical form. Prerequisite: Music 14.

B. CLASS LESSONS IN APPLIED MUSIC. Applied music fees are applicable except for music majors.

9. CLASS PIANO. Sem. 1. Cr. 2. A practical course in which the materials of music are applied to the keyboard. Harmonization and improvisation are emphasized.


C. VOCAL AND INSTRUMENTAL METHODS CLASS INSTRUCTION

31. STRINGED INSTRUMENT CLASS. Sem. 1. 0:4-2. Cr. 1. Violin, viola, cello, and string bass are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments. Laboratory fee, $10.00.

*During the academic year 1970-1971 some voice instruction will be taught in class lessons on an experimental basis.
24 credit hours in philosophy are required of students.

Twelve credit hours in philosophy are required of students.

Student's principal performing medium.

Clarinet at the

Make graduate-level study profitable. All categories of applied music listed.

Ability. Prerequisite: approval of the chairman of the department.

Under A above are offered at the

By special invitation. Prerequisite: approval of the chairman of the department.

300. APPLIED MUSIC.

To qualify for

Choir, University Choral Society, and Schola Cantorum.

Chamber Opera Workshop.

Each sem. Admission by audition only.

University Orchestra.

Each sem. Admission by audition only.

Chamber Music.

Each sem. Admission by audition only.

University Band.

Each sem. Admission by audition only.

D. INSTRUCTION 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. Candidates for the degrees of Bachelor of Music Education and Bachelor of Music may include all credit hours earned in ensemble music in the credit hours required for graduation. Candidates for all other degrees offered by the College of Arts and Sciences may, however, include no more than four such credit hours in the number of credit hours required for graduation.

Choir.

Each sem. Admission by audition only. This includes University Choir, University Choral Society, and Schola Cantorum.

Opera Workshop.

Each sem. Admission by audition only.

University Orchestra.

Each sem. Admission by audition only.

Chamber Music.

Each sem. Admission by audition only.

University Band.

Each sem. Admission by audition only.

Primarily for Graduates

200. APPLIED MUSIC.

Each sem. Cr. 2. Private instruction in a performing medium for which the student does not have the necessary training and ability to qualify for 300-level instruction, but in which he has sufficient background to make graduate-level study profitable. All categories of applied music listed under A above are offered at the 200-level. Not open to undergraduates except by special invitation. Prerequisite: approval of the chairman of the department.

For Graduates Only

300. APPLIED MUSIC.

Each sem. Cr. 2 or 3. Private instruction in the student's principal performing medium. Organ, piano, harpsichord, voice, and clarinet at the 300-level for students holding a Bachelor of Music degree with major in the given instrument or having the equivalent level of performing ability. Prerequisite: approval of the chairman of the department.

THE COLLEGE OF ARTS AND SCIENCES

THE DEPARTMENT OF PHILOSOPHY

Professor Scheimann (Chairman); Associate Professor Klein*; Assistant Professor J. Smith; Mr. Meddock

Major—Twenty-four credit hours in philosophy are required of students taking a major in this department. The following courses must be included: 2, 3; any three of the following: 51, 52, 53, 54, 55, 56; and any three of the following: 98, 110, 127, 135, 205, 210.

Minor—Twelve credit hours in philosophy are required of students taking a minor in this department. The following courses must be included: 2, 3; any one of the following: 51, 52, 53, 54, 55, 56; any one of the following: 98, 110, 127, 135, 205, 210.

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

COURSES IN PHILOSOPHY:

For Undergraduates

Either Philosophy 1 or Philosophy 2 is prerequisite for all other courses offered by this department with the exception of Philosophy 3 and Philosophy 101. (Philosophy 101 in Christ College is treated as the equivalent of Philosophy 1.) All courses except Philosophy 1, 2, and 3 require at least sophomore standing. Philosophy 110, 135, 205, and 210 require at least junior standing. Majors and Minors are ordinarily encouraged to take Philosophy 1, though it is not required, nor will it count toward the 24 hour (major) or 12 hour (minor) overall requirement.

1. INTRODUCTION TO PHILOSOPHY.

Each sem. Cr. 3. A philosophical introduction to problems of unity and diversity in knowledge, in being, and in truth.

2. ETHICS.

Each sem. Cr. 3. This course is designed primarily to introduce the student to the field of philosophy through a consideration of some of the major moral theories of the Western tradition.

3. LOGIC.

Each sem. Cr. 3. A general study of formal logic beginning with the traditional analysis of the syllogism and immediate inference and proceeding to truth-functional logic, elementary quantification theory, and inductive logic. The course is open to freshmen and requires no previous course in philosophy.

51. GREAT PHILOSOPHIES: ANCIENT.

Sem. 1. Cr. 3. An approach to the great philosophies of ancient Greece which emphasizes their systematic character and their current relevance.

52. GREAT PHILOSOPHIES: MEDIEVAL.

Sem. 2. Cr. 3. From St. Augustine to William of Occam.

53. GREAT PHILOSOPHIES: EARLY MODERN.

Sem. 1. Cr. 3. From Descartes to Hume.

54. GREAT PHILOSOPHIES: RECENT.

Sem. 2. Cr. 3. From Kant to the present.

55. A GREAT PHILOSOPHY.

Sem. 2. Cr. 3. An examination of the works of one philosopher of importance such as: Plato, Aristotle, Augustine, Thomas Aquinas, Hume, Kant, Dewey, Whitehead, or Wittgenstein. The purpose of the course is to provide detailed knowledge of the philosophy studied, with special emphasis upon its logical structure.

*Director, University Overseas Center, Cambridge, 1970-1971

For the course given in Christ College, see page 256 of this Bulletin.
56. GREAT PHILOSOPHIES: NON-WESTERN. Sem. 1. Cr. 3. An examination of several major works of non-western philosophy with emphasis upon their systematic characteristics.

98. METAPHYSICS. Sem. 2. Cr. 3. A consideration of theories of existence or of such contemporary and perennial issues in the theory of reality as the integration of knowledge, the pervasive structure of our thought about what is, the nature of individuals, the mind-body problem, and appearance and reality.

110. PHILOSOPHY OF THE NATURAL SCIENCES. Sem. 2. Cr. 3. A historical and systematic approach to the philosophical problems implicit in some of the concepts, theories, and methods of the physical and biological sciences.

127. EPISTEMOLOGY. Sem. 1. Cr. 3. An examination of some topics in traditional and contemporary theories of knowledge.

135. PHILOSOPHY OF CHRISTIAN THEOLOGY. Sem. 2. Cr. 3. An approach through the great philosophies to Christian theology and the implications of this theology for several philosophical problems.

193. INDEPENDENT PROJECTS. Each sem. Cr. 1, 2, or 3. Prerequisites: junior standing, 12 semester hours in philosophy, and consent of the chairman of the department.

For Undergraduates and Graduates

205. PHILOSOPHICAL PROBLEMS: RELIGION. Sem. 1. Cr. 3. An approach through the great philosophies to the problem of religion, and the implications of this problem for several of the arts or sciences.

210. PHILOSOPHY OF THE SOCIAL SCIENCES. Sem. 1. Cr. 3. An approach through the great philosophies to the social sciences and the implications of these sciences for several philosophical problems.

For Graduates

305. CONTEMPORARY PHILOSOPHY. Cr. 3. An introduction to major problem areas and schools of thought in contemporary philosophy. The careful reading and discussion of significant philosophical texts is emphasized.
3. INDIVIDUAL ACTIVITIES. Each sem. 0+2, Cr. 1. Various combinations of individual activities will be offered: tennis, bowling, golf, swimming (beginning, intermediate, and synchronized), badminton, fencing, archery, modern dance, gymnastics, billiards. Specific combinations of activities will be listed in the time schedule.

ADVANCED COURSES FOR MEN AND WOMEN

62. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. Each sem. 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.

71. MINOR ATHLETICS AND GROUP GAMES (Men). Sem. 1. 1+2, Cr. 2. A more advanced course in the theory and practice of wrestling, speedball, soccer, and volleyball.

81. RECREATION AND EDUCATION. Sem. 2. Cr. 2. An analysis of the aspects of recreation related to the field of physical education; park and playground leadership, park and playground programs, outdoor education, Life Time Sports Projects, student recreational programs.

82. BODY MECHANICS AND EXERCISE PROGRAMS. Sem. 2. 1+1, Cr. 1. Analysis of movement and the study of various methods of teaching and developing movement and exercise. (Women.)

*84. INDIVIDUAL AND TEAM ACTIVITIES. Sem. 1. 1+1, Cr. 1.

*85. INDIVIDUAL AND TEAM ACTIVITIES. Sem. 2. 1+1, Cr. 1.

*86. INDIVIDUAL AND TEAM ACTIVITIES. Sem. 1. 1+1, Cr. 1.

*87. INDIVIDUAL AND TEAM ACTIVITIES. Sem. 2. 1+1, Cr. 1.

91. OFFICIATING IN WOMEN'S SPORTS. Sem. 1. Cr. 1. Officiating procedures in hockey, soccer, volleyball, and swimming.

92. OFFICIATING IN WOMEN'S SPORTS. Sem. 2. Cr. 1. Officiating procedures in basketball, badminton, softball, and tennis. Prerequisite: Physical Education 91.

96. PERSONAL AND COMMUNITY HYGIENE. Each sem. Cr. 2. A survey of factors which determine personal health and an introduction to methods used in preventing diseases in the individual and in the community.

97. PRINCIPLES OF SCHOOL HEALTH PROGRAMS. Each sem. 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.

105. LEADERSHIP IN CAMPING. Sem. 2. Cr. 1. A study of the role of the camp counselor and exploration, through laboratory experience, of the necessary skills for established camping.

106. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS. Sem. 1. Cr. 2. A study of the organization and administration of curricular and extra-curricular programs of physical education and athletics.

*107. INDIVIDUAL AND TEAM ACTIVITIES. Sem. 1. 1+1, Cr. 1.

*108. INDIVIDUAL AND TEAM ACTIVITIES. Sem. 1. 1+1, Cr. 1.

121. GYMNASTICS AND TUMBLING (Men). Sem. 1. 1+2, Cr. 2. The theory and analysis of skills and teaching techniques involved in apparatus, stunts, and tumbling.

123. RHYTHMIC GYMNASTICS. Sem. 1. 1+1, Cr. 1. The use of small apparatus and rhythms in gymnastics.

*Various combinations of individual, dual, and swimming activities will be presented.

THE COLLEGE OF ARTS AND SCIENCES

124. GYMNASTICS (Women). Sem. 2. 1+1, Cr. 1. The theory and analysis of skills and teaching techniques involved in the mechanics of movement and the use of apparatus.

126. THEORY AND PRACTICE OF RHYTHM. Sem. 2. 1+2, Cr. 2. Fundamentals of rhythms, child rhythms, folk dance, square dance, and other social recreational activities.

127. FIRST AID AND SAFETY. Each sem. Cr. 2. A study of the prevention and treatment of injuries, leading to the Standard and Advanced American Red Cross First Aid Certificates, with supplementary material aimed especially toward the teacher of physical education.

128. SENIOR LIFESAVING. Sem. 1. 1+1, Cr. 1. Analysis and practice of skills in synchronized swimming and lifesaving. This course leads to the American Red Cross Senior Lifesaving Certificate.

129. WATER SAFETY INSTRUCTION. Sem. 2. 1+1, Cr. 1. Techniques of teaching swimming and lifesaving. This course leads to the American Red Cross Water Safety Instructor's Certificate. Prerequisite: an American Red Cross Senior Lifesaving Certificate.

130. MODERN DANCE. Sem. 2. 1+1, Cr. 1. Skills and teaching techniques involved in the modern dance.

131. EXTRAMURAL AND INTRAMURAL ACTIVITIES (Women). Sem. 1. Cr. 1. The organization and conduct of school-related teams and clubs. (Given in alternate years.)

146. PRINCIPLES AND PRACTICES OF BASEBALL COACHING (Men). Sem. 2. 1+1, Cr. 1. History, rules, fundamentals, team play, and strategy. Lectures, reports, discussions, and practice.

148. PRINCIPLES AND PRACTICES OF TRACK AND FIELD COACHING (Men). Sem. 2. 1+1, Cr. 1. History, rules, fundamentals, and strategy. Lectures, reports, discussions, and practice.

151. PRINCIPLES AND PRACTICES OF BASKETBALL COACHING (Men). Sem. 1. 1+1, Cr. 1. An analysis of the strengths and weaknesses of widely used offensive and defensive systems; fundamentals, strategy, and coaching problems included.

152. PRINCIPLES AND PRACTICES OF FOOTBALL COACHING (Men). Sem. 2. 1+1, Cr. 1. An analysis of the strengths and weaknesses of widely used offensive and defensive systems; fundamentals, scouting and use of motion pictures included.

154. RECREATIONAL SPORTS (Men). Sem. 2. 1+2, Cr. 2. Advanced theory and practice of recreational sport techniques with special emphasis on badminton, handball, tennis, and golf.

166. KINESIOLOGY. Sem. 2. Cr. 3. Analysis of human motion based on anatomical and mechanical principles. Application of these principles in the teaching of physical education activities. Prerequisite: Biology 115.

171. CARE AND PREVENTION OF ATHLETIC INJURIES. Sem. 1. Cr. 2 or 3*. Problems in athletic conditioning and injuries. Laboratory work includes the clinical use of physiotherapy equipment, massage, support methods, and advanced training methods. Prerequisite: Biology 115.

181. TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION. Sem. 1. Cr. 2. A study of motor ability tests, sports proficiency tests, health knowledge tests, etc.

*Offered for three credits only in Summer Session 1970-1971.
191. THE TEACHING OF PHYSICAL EDUCATION. Sem. 1. Cr. 2. A study of the methods of teaching physical education 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.

196. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. Each sem. 2+1, Cr. 2. Exploration of learning theories, application of physical education activities as aids to learning, application of mechanical and physiological principles in the organization and teaching of physical education in the elementary school.

197-198. RESEARCH IN PHYSICAL EDUCATION. Each sem. Cr. 1. Investigation of various research techniques and problem designs. An individual study is designed and the experiment is conducted by the student.

THE COLLEGE OF ARTS AND SCIENCES

THE DEPARTMENT OF PHYSICS

Professor Manning* (Chairman); Professor Shirer; Associate Professor Naumann; Assistant Professors Mangiaracini, Scheiderer, and Yu

MAJOR—Thirty credit hours of physics are required. Physics 70, 75, 110, 121, and 122 must be included. The department strongly recommends Physics 70, 73, 130, and 207 as the minimum program. One year of chemistry is also required. Students preparing for graduate work should also take Physics 106, 107, 208, 210, 211, and Mathematics 180, 181.

Physics majors will postpone their freshman social science and their sophomore English literature to the junior year.

MINOR—Sixteen credit hours of physics, including Physics 110, are required of a student minoring in this department.

APPROVAL OF SCHEDULES—All students taking a major or minor in this department and all students planning to teach physics must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN PHYSICS

For Undergraduates

42. INTRODUCTORY PHYSICS. Each sem. 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 and will be required to pass an algebra-geometry proficiency examination. Laboratory fee, $10.00.

67. CONCEPTS OF PHYSICS. Sem. 1. 3+3, Cr. 4. A course in which the modern interpretations of the fundamental phenomena and laws governing the behavior of the physical universe are discussed. Intended as the basic introduction to physics for both non-science and science majors, this course stresses the logical content and structure of the causal relations between matter and energy rather than their mathematical formulation. Laboratory experiments in mechanics and electromagnetism. Prerequisite: 3 units of high-school mathematics or Mathematics 51. (Mathematics 51 may be taken concurrently.) Laboratory fee, $10.00.

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.

70. (Formerly Analytical Physics.) 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. (Formerly 174.) ELECTRICITY AND MAGNETISM. Sem. 2. 3+0, Cr. 3. This course emphasizes the fundamental laws of electricity and magnetism. Maxwell's equations, dialectic media, magnetic media, and problems of electromagnetic radiation. Vector methods are used. Prerequisite: Physics 70.

75. ELECTRICAL MEASUREMENTS: PHYSICS. Sem. 1. 0+3, Cr. 1. Laboratory training in the use of modern electrical and electronic measuring instruments. The analytical techniques used are similar to those of Physics 70, which is designed to be taken concurrently. Laboratory fee, $10.00.

81-82. DESCRIPTIVE ASTRONOMY. 2+0, Cr. 2. A study of the principles of astronomical observation, the solar system, and the exploration of space with an introduction to the modern conception of our universe and to contemporary theories of the evolution of the stars. Only elementary mathematics is required. This course together with Physics 67 may be used to meet the Lower-Division requirements in the natural sciences. Laboratory work will occasionally replace a lecture.

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.

106. ELECTRONICS. Sem. 2. 2+3, Cr. 3. A study of electron tubes, transistors, and electronic circuits designed for physical measurements. Laboratory work in tube and transistor characteristics and electronic circuits. Prerequisites: Physics 68 and Mathematics 77. (Mathematics 77 may be taken concurrently.) Laboratory fee, $10.00.

107. PHYSICAL OPTICS. Sem. 1. Cr. 3. A study of electromagnetic radiation, with emphasis on interference, diffraction, dispersion, polarization, absorption, and scattering. Prerequisite: Mathematics 78.

110. (Formerly 74.) INTRODUCTORY MODERN PHYSICS. Sem. 1. 3+3, Cr. 4. 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.

121-122. EXPERIMENTAL PHYSICS. Each sem. 0+3, Cr. 1. Experiments in modern physics and radioactivity, advanced mechanics, optics, heat, spectroscopy, and electromagnetism. Prerequisites: Physics 110 and Mathematics 77. Laboratory fee, $10.00 each semester.

130. THERMAL PHYSICS. Sem. 2. 3+0, Cr. 3. A study of heat, thermodynamics, and introductory statistical physics. Prerequisites: Physics 68 and Mathematics 78. (Mathematics 78 may be taken concurrently.)

133. MECHANICS. Sem. 1. 4+0, Cr. 4. A treatment of the dynamics of a point mass in one and three dimensions, oscillations and central force fields, collision problems, rigid bodies, the wave equation, and selected topics. Prerequisites: Physics 68 and Mathematics 78. (Mathematics 78 may be taken concurrently.) (Not offered after 1970-1971.)

174. ELECTRICITY AND MAGNETISM. Sem. 2. 4+0, Cr. 4. This course emphasizes the fundamental laws of electricity and magnetism. Maxwell's equations, dialectic media, magnetic media, and problems of electromagnetic radiation. Vector methods are used. Prerequisite: Physics 173. (Not offered after 1970-1971.)

181. REACTOR PHYSICS. Sem. 2. 3+3, Cr. 4. Neutron and reactor physics for students with physics or engineering backgrounds. Topics include neutron physics, fission, neutron diffusion, neutron moderation, bare homogeneous thermal reactors, reflected reactors, heterogeneous reactors, and an introduction to neutron transport theory. Laboratory work in neutron detection, slowing down and diffusion, subcritical reactor studies, and pulsed neutron methods. Prerequisite: Physics 121. Laboratory fee, $10.00.

191. THE TEACHING OF PHYSICAL SCIENCES. Sem. 1. 1+3, Cr. 2. A study of the methods of teaching physics in secondary schools. Laboratory demonstrations and reference reading; problems relating to laboratory constructions and equipment; standard tests. This course may not be counted toward a major or minor in physics. (See Education 191.) Prerequisite: admission to Supervised Teaching. (Given upon sufficient demand.)

193. PHYSICS COLLOQUIUM. Each sem. Cr. 0. All physics majors except freshmen and sophomores must register for the course and are expected to give reports on current research in physics. Freshmen and sophomores who are interested in physics are invited to attend these meetings.

195-196. SPECIAL PROBLEMS IN PHYSICS. Each sem. Cr. 1 or 2. Each student undertakes an elementary research problem. A written report and an oral presentation are required. Prerequisite: consent of the chairman of the department. Laboratory fee, $10.00 per credit hour.

For Undergraduates and Graduates

207-208. INTRODUCTION TO QUANTUM MECHANICS. Each sem. 3+0, Cr. 3. The fundamental concepts of quantum mechanics are examined with applications to atomic, nuclear and solid state physics. Topics include the Schroedinger equation, perturbation theory, the hydrogen atom, angular momentum and electron spin, identical particles, multielectron atoms, and collision theory. Prerequisites: Physics 74, 173, and Mathematics 180 or consent of the chairman of the department. (Mathematics 180 may be taken concurrently.)

210. THEORETICAL PHYSICS. Sem. 1. 2+0, Cr. 2. Theorems of mathematical physics and applications, including small oscillations, general rotations, and potential theory. Prerequisites: Physics 70 and 73 and Mathematics 78.

211. THEORETICAL PHYSICS. Sem. 2. 2+0, Cr. 2. A continuation of Physics 210 including wave motions, Maxwell's equations, and boundary value problems. Prerequisite: Physics 210.
An analysis of behavior disorders is made within the framework of psychological theory and research. This course is designed to integrate experimental methodology with statistical analysis and relevant concepts in the philosophy of science. Prerequisite: Psychology 131.

134. Experimental Psychology: Sensation and Perception. Sem. 2-4, Cr. 4. A study of the sensory and perceptual processes. Supervised individual experimentation. Prerequisites: Psychology 131, 132, and 133. Laboratory fee, $10.00.

135. Experimental Psychology: Conditioning and Learning. Sem. 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 and 133. 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 and 133. Laboratory fee, $10.00.

137. Contemporary Psychological Theories. Sem. 2. Cr. 3. A systematic analysis of contemporary psychological theories and of relevant research. Prerequisite: 6 hours of psychology.

138. 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. Prerequisites: Psychology 131 or 203 and one course above Psychology 131.

139. Current Problems in the Behavioral Sciences. Sem. 2. Cr. 3. Psychological analyses of problems selected jointly by the students and instructors from such areas as current social issues, interdisciplinary problems, and methodological considerations in the behavioral sciences. Prerequisite: 6 hours of psychology or consent of the chairman of the department.

193-194. Pro-Seminar in Psychology. Each sem. Cr. 1. This course is designed to provide more detailed coverage of significant topics within the field than is possible in the regular course offerings of the department. A few such topics, determined jointly by the interests of the faculty and the students, will be discussed each semester. Prerequisite: Psychology 135 or 136.

195-196. Special Problems in Psychology. Each sem. Cr. 1-3. Individual research projects under staff supervision. A written report is required. Prerequisite: Psychology 135 or 136. Laboratory fee, $10.00.

140. Psychology of Childhood. 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.

141. Statistical Methods for the Behavioral Sciences. Sem. 2. Cr. 3. Techniques of treating data from experiments and surveys, including data distributions, sampling, correlation, regression, and hypothesis testing. Examples are drawn from several behavioral sciences. Prerequisite: 6 hours of psychology. (Not open to students who have taken Psychology 131 or its equivalent.)

142. Psychophysical Measurement and Evaluation. Sem. 1. Cr. 3. Principles and methods of psychophysical measurement and evaluation, statistical analysis and interpretation of measurement data, with applications to the administration and interpretation of various ability and aptitude tests. Interested students may elect to deal with problems of ability and aptitude measurement in a specific area. Prerequisite: Psychology 131 or 203.
208. THE EXCEPTIONAL CHILD. Sem. 1. Cr. 3. A course designed to help the student understand the impact of various physical and mental handicaps on the child's life. Emphasis will be given to the child's personal, social, and intellectual development and to the effect of this growth on the learning process. Prerequisite: Psychology 201.

210. METHODS OF CLINICAL PSYCHOLOGY. Sem. 2. 2+2, Cr. 3. A study of the techniques of diagnosis and therapy employed in the clinical setting. Supervised practice in testing. Prerequisite: Psychology 130 or consent of the chairman of the department.

215. LEARNING AND MOTIVATION. Sem. 2. Cr. 3. A study of the principles, techniques, and variables observed in the learning and motivational behavior of various organisms. Prerequisite: 6 hours of psychology.

217. COMPARATIVE PSYCHOLOGY. (Also offered as Biology 217.) Sem. 2. Cr. 3. The concepts of the science of behavior and the application of the scientific method to the study of animal conduct. This course deals with the development of behavior and intelligence, the receptor control of activity, periodicity in behavior, and higher mental processes in animals. Prerequisites: Biology 50 and one of the following: Biology 207, Psychology 132, 135, or 136.

For Graduates

303. COGNITIVE PROCESSES. Cr. 3. Analysis of various cognitive processes, such as concept formation, reasoning, problem solving, creativity, and language. Prerequisite: 6 hours of psychology.

310. PRINCIPLES OF PSYCHOTHERAPY. Cr. 3. Representative theoretical approaches to the process of personality change and to the techniques used in treating neurotic and psychopathic disturbances. Prerequisite: 3 hours of psychology at the graduate level.

315. PROBLEMS IN PERSONALITY THEORY. Cr. 3. A treatment of the theoretical systems of personality, current approaches to the assessment of human motives, and the behavioral consequences of specific motives in the individual and society. Prerequisite: 3 hours of psychology at the graduate level.

THE DEPARTMENT OF SOCIAL WORK

Professor Tangerman (Chairman); Associate Professor Neal

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.

Major—Candidates for the degree of Bachelor of Arts with a major in social work must complete courses 107, 108, 150, 160, 162, 163, and 164 in the Department of Social Work. In addition, they must also complete 21 credits in social science which must include at least one course in Economics, at least one course in Government including 1 or 2, Psychology 51, and Sociology 53 and 101.

It is recommended that majors include courses in social problems, ethics, and history in completing the social science requirement. Biology is recommended in meeting the lower division natural science requirement. For majors planning to enter a graduate program in social work, an introductory course in statistics is recommended. Although only one minor is required, two minors may be obtained with careful planning. Psychology is recommended as a minor.

Students majoring in social work ordinarily must begin courses in the department at least four semesters prior to graduation. It is recommended that Social Work 107 and 108 be taken in the sophomore year.

Minor—A minor in social work consists of 15 credit hours including courses 107, 108, 150, 160, and 162.

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.

Curriculum Leading to Degree of Bachelor of Arts With a Major in Social Work

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<th>First Year</th>
<th>Second Year</th>
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<tr>
<td><strong>First Semester</strong></td>
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<td>English 1</td>
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<td>Cr. 3</td>
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<td>*Natural Science</td>
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<td>Cr. 3</td>
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<td>Foreign Language</td>
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<td>Religion</td>
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*One year of Biology is recommended in meeting the lower division natural science requirement. Sociology 84 is recommended in completion of the social science requirement for a major in Social Work.

See description of Major for other recommended courses.
**SECOND YEAR**

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<tr>
<th>Course</th>
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<tr>
<td>English 51</td>
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<tr>
<td>Natural Science</td>
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<td>Social Work 107</td>
<td>3</td>
<td>Social Work 108</td>
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<tr>
<td>Foreign Language</td>
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<td>Government 1 or 2</td>
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<td>Religion</td>
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**THIRD YEAR**

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<td>Social Work 150</td>
<td>3</td>
<td>Social Work 160</td>
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<tr>
<td>Economics</td>
<td>3</td>
<td>Social Work 162</td>
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<tr>
<td>Sociology 54</td>
<td>3</td>
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**FOURTH YEAR**

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<td>Completion of Social Sciences</td>
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Total Semester Credits: 128

**COURSES IN SOCIAL WORK**

*For Undergraduates*

**78. INTRODUCTION TO YOUTH-LEADERSHIP WORK.** Sem. 2. Cr. 3. An orientation course to acquaint the student with the principles, materials, and methods of youth-leadership work. Prerequisite: consent of the Director of the Youth-Leadership Training Program.

**107. THE FIELD OF SOCIAL WORK.** Each sem. Cr. 3. A broad survey of social services covering the history, philosophy, goals, and structure of social work. A study of the methods employed to serve individuals, groups, and communities. This course should be of interest to all students not only in social work but teaching, the ministry, law, nursing, medicine, and church work. Prerequisite: at least sophomore standing or consent of the chairman of the department. Field trip fee, $5.00.

**108. GOVERNMENT AND SOCIAL WELFARE.** Each sem. Cr. 3. This course will include (1) a survey of the history of social welfare services in the United States with special attention to the influence of federal welfare legislation and (2) a descriptive analysis of various tax-supported social welfare programs and agencies. Case illustrations, films, and a field trip are used to help analyze some of the problems involved in social welfare. Prerequisite: Social Work 107 (may be taken concurrently by juniors and seniors) or consent of the chairman of the department. Field trip fee, $5.00.

**150. INTRODUCTION TO SOCIAL GROUP WORK.** Each sem. Cr. 3. A course in the basic principles of working with and programming for individuals in groups of various kinds. Emphasis is placed on leadership qualities. There will be an opportunity for some group work experience with city and county groups, such as group work with the aged, children in settlement houses or institutions, or the mentally retarded. Prerequisite: Social Work 108 (may be taken concurrently by juniors and seniors).

*One year of Biology is recommended for meeting the lower division natural science requirement. Sociology 54 is recommended in completion of the social science requirement for a major in Social Work. See description of Major for other recommended courses.*
MAJOR—A minimum of thirty credit hours is required for a major in Sociology. These must include the core courses numbered 53, 195, 196, 201, 202, and 203. No more than one sub-field or cognate course (the group numbered 54, 55, 56, and 185) may be included within the minimum requirement. The remaining hours are to be completed from the balance of field offerings within the department. Additional field and sub-field or cognate courses may be taken as desired above the thirty hour minimum requirement.

A course in introductory statistics (e.g., Psychology 131 or 203, Economics 85, Mathematics 54 or 205, the latter for students with a strong mathematics background) is strongly recommended. A second course in computer programming and numerical computation (Mathematics 84) should also be considered.

MINOR—A minimum of eighteen credit hours is required for a Sociology minor and must include Sociology 53 and 201, the latter to be completed during either semester of the junior or senior years. No more than one sub-field or cognate course may be taken (those numbered 54, 55, 56, and 185). A minimum of three fields of Sociology courses must be completed by each student above the Sociology minor core course requirement of 53 and 201. Additional field and sub-field or cognate courses may be completed as desired above the minimum requirement.

APPROVAL OF SCHEDULES—All students taking a major or a minor in the department must have their schedules approved by the chairman of the department at the beginning of each semester. Normally, Sociology 201, 202, and 203 will be taken in the junior year; and Sociology 195 and 196 will be taken in the senior year.

COURSES IN SOCIOLOGY

53. INTRODUCTORY SOCIOLOGY. Each sem. Cr. 3. A study of the primary elements of sociological analysis, emphasizing the nature of social organization, the basic social structures within which men live, the forces which hold groups together and lead to social change. The scientific method and the fundamental concepts contemporary sociologists use in the analysis of social life. Laboratory fee, $10.00.

54. SOCIAL PROBLEMS. Each sem. Cr. 3. A study of social maladjustments, dislocations, tensions, and social problems which arise from the operation of social systems, and their functional and dysfunctional nature. Theories of disorganization. The analysis of selected contemporary social problems in depth. Prerequisite: Sociology 53 or consent of the chairman of the department.

55. CULTURAL ANTHROPOLOGY. Each sem. Cr. 3. The study of the general principles of the discipline with special attention given to the development of human culture, and comparison of selected cultural areas of the world.

56. BLACK STUDIES: BLACK URBAN COMMUNITY. Each sem. Cr. 3. A topic of special interest to the Black Studies Program is presented. Prerequisite: Sociology 53 or consent of the chairman of the department.
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*230. Societal Structures. Each sem. Cr. 3. An investigation of selected sociological phenomena in relationship to current social theory and research. Topics may include socialization, social stratification, mass communications, population analysis, urban sociology, social change, or systems of justice. Prerequisite: Sociology 53 or consent of the chairman of the department.

*240. Social Institutions. Each sem. Cr. 3. An examination of the various aspects of selected social institutions in the light of the multiple variables of sociological analysis. Topics may include political sociology, or the sociology of medicine, of occupations, of law, or of knowledge. Prerequisite: Sociology 53 or consent of the chairman of the department.

For Graduates

301. Seminar in the Family. Cr. 3. Analysis of the development of current theory and the nature of contemporary research problems on the family. Prerequisite: consent of the instructor.

302. Seminar in Criminology and Penology. Cr. 3. Critical review of current theory, practice, and research in criminology and penology. Prerequisite: consent of the instructor.

*310. Seminar in Sociology. Cr. 3. An investigation of selected problems and concepts within sociology from the standpoint of sociological theory and current research. Topics may include religious systems and institutions, contemporary educational systems and structures, social systems and social change, ethnic systems and structures, juvenile deviance and delinquency, and organized crime. Prerequisite: consent of the instructor.

THE DEPARTMENT OF SPEECH AND DRAMA

Professors Hahn, Kussrow**, and Sitton; Assistant Professors Dallmann, Guse, Hardgrove, and Pick

MAJOR IN SPEECH AND DRAMA—Thirty credit hours of speech and drama including Speech 40 are required of students majoring in speech and drama. Courses 1, 67, 68, 166, 182, 185, 186, 199, 205, and 208 must be included in the courses offered toward a major.

MINOR IN SPEECH AND DRAMA—Sixteen credit hours of speech and drama including Speech 40 are required of students minoring in speech and drama. Courses 67 or 68, 70, 81, 166, and 185 or 186 or 205, and 208 must be included in the courses offered toward a minor.

MINOR IN SPEECH PATHOLOGY—Sixteen credit hours in speech including Speech 40 are required for a minor in speech. Courses 70, 145, 151, 171, and 208 must be included.

MINOR IN CRIMINOLOGY AND PENOLOGY—Fifteen credit hours in speech pathology including Speech 40 are required of students minoring in Speech Pathology. Courses 20, 151, 152, 153, 154, and 195 or 196 must be included for this minor. A student cannot take an additional major or 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, and Physical Education 82 and 130.

THE JUNIOR YEAR ABROAD—The Department of Speech and Drama offers, in cooperation with the Central States College Association, (pilot projects in 1966-1967 and 1968-1969) a year of specialized training and experience at Coventry Cathedral, England, to individuals who are interested in the area of Drama and the Church. Students participating in this Program are registered at Valparaiso, either as regular students or as transient students. For further information concerning this Program, inquiries should be directed to the Director of International Studies.

THE UNIVERSITY THEATRE—Additional training and experience in acting and in dramatic production are provided by the University Theatre, which is under the supervision of the Department of Speech and Drama. Further information concerning the University Theatre may be found on page 61 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 head 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 defects 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.

*Assessment of laboratory fee dependent on selection of topic.

*No chairman designated at time of publication.

**Director, COVAL Program 1970-1971.
APPROVAL OF SCHEDULES—All students majoring or minoring in speech and drama must have their schedules approved by the chairman of the department at the beginning of each semester.

COURSES IN SPEECH AND DRAMA
For Undergraduates
1. MAKE-UP. Sem. 1. 1+1, Cr. 1. A laboratory course in the fundamentals of stage make-up. Required for majors.
20. (Formerly Voice and Diction.) VOICE AND ARTICULATION. Each sem. 2+0, Cr. 1. A course designed to provide the student with basic knowledge of speech production. Through this approach to voice science, students study respiration, laryngeal functioning, and cavity behavior. Training in phonetics is designed to enhance the student's ability to produce effective speech.
30. FUNDAMENTALS OF DRAMA. Each sem. Cr. 2. A study of the aesthetic, historical, stylistic, and literary aspects of dramatic art, leading to an appreciation of theatre. This course may not be counted toward a major or minor in the department.
35. DRAMA AND THE CHURCH. Sem. 1. Cr. 2. This course operates under a very broad view of both "drama" and "Church." It examines in concrete and theoretical terms the theological dimension of creative action on the presentational level.
36. CHRISTIANITY AND THE CONTEMPORARY THEATRE.* Each sem. Cr. 3. This course is designed to discover the areas of concern and basic assumptions of contemporary theologians and those of contemporary playwrights and theatre practitioners in order to ascertain what and where common ground may be found. A basic knowledge of modern Christian thought and dramatic theory is deemed advisable. Open to upper division students.
40. FUNDAMENTALS OF SPEECH. Each sem. Cr. 2. A basic course giving students training and practice in public speaking. Emphasis is placed on the components of effective delivery; on clear thinking necessary for logically organized speech content; on pronunciation and the use of language; and on methods of securing attention.
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. 1. 2+2, Cr. 2. A study of the principles of stage design with a brief survey of stage decoration; practice in designing sketches, elevations, and models for various styles of stage productions. Prerequisite: Speech 67 or 68. (Given in alternate years.)
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. NOTE: No student will be admitted to any of the following courses without the permission of the chairman of the department.
81. ACTING. Sem. 1. 2+2, Cr. 2. A basic course in the theory and technique of acting. The role of the character in relationship to the play as a whole and its intellectual and emotional interpretation through voice and action. Prerequisites: Speech 40 and 70.
91. INTRODUCTION TO RADIO. Sem. 1. Cr. 3. A course in radio speech, script writing, microphone technique, and program production. Consideration is also given to radio as a teaching medium. Prerequisites: Speech 40 and 70.
*Offered only in Overseas Study Program.
186. THE THEATRE AND ITS LITERATURE. Sem. 2. Cr. 3. A continuation of course 185. A survey of the history of the theatre from the eighteenth century to the present. Prerequisite: English 51 or 52 or 56.

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. Prerequisites: Acting 81 and 182.

195-196. PROJECTS IN SPEECH AND THEATRE. Each sem. Cr. 1. A course offering talented students an opportunity to study intensively an area of theatre art or oral communication. Prerequisites: junior standing and consent of the chairman of the department.

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.

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. Prerequisites: English 51 and 52 or 56.

205. THE AMERICAN THEATRE AND ITS LITERATURE. Sem. 2. Cr. 3. A history of the American theatre from its beginning to the present. Masterpieces of American dramatic literature are studied in relation to contemporary theatre practices. Prerequisite: consent of the chairman of the department.

208. PERSUASION. Sem. 2. Cr. 3. Development of skill in the composition and delivery of various forms of persuasive speeches. Also the development of techniques used in different types of discussion, such as those used in informal committee meetings and in more formal business conferences. Prerequisite: a course in speech.

THE DEPARTMENT OF THEOLOGY
Professor Schroeder (Chairman); Professors R. Baeppler, Koepke, Kretzmann, and Krol; Associate Professors Droese, Jungkunz*, Keller, Koerby, and Rast; Assistant Professors Albers, Boehringer, Brockopp, Kristo, Lasky, Ludwig, Lutte, Schedler, Senne, Thiele, Weinhold, and Widiger; Mr. McClean and Mr. Truemper

MAJOR—Thirty-two credit hours of religion are required of students taking a major in this department. Only one of the courses in religious education may be counted toward a major in religion. Students taking a major in this department are urged to take Geography 131-139.

MINOR—Twenty credit hours of religion are required of students taking a minor in this department. Only one of the courses in religious education may be counted toward a minor in religion.

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

COURSES IN RELIGION†
For Undergraduates

NOTE: A student shall normally take one course in religion each semester of his freshman year, and one course per year thereafter to fulfill the one-hour requirement. One of these courses must be taken in the student's senior year. Religion 1 and 2 are the required initial courses. The third course shall normally be taken from the fifties series. However, students with special interest and background may proceed immediately to a more advanced course by meeting the necessary prerequisites. In his senior year the student is encouraged to take either the Religion Colloquium, designed specifically for the general senior student, or any course numbered above 100.

1. INTRODUCTION TO RELIGIOUS STUDIES I. Each sem. Cr. 2. This course studies the nature and dimensions of the religious question, the biblical origins of the Christian faith, and the various expressions of faith and thought, action, and institutions.

2. INTRODUCTION TO RELIGIOUS STUDIES II. Each sem. Cr. 2. Continuation of Religion 1. Prerequisite: Religion 1.

51. (Formerly Readings in the Epistles I.) READINGS IN THE GOSPELS. Either sem. Cr. 2. An introduction to the study of the message and ministry of Jesus through weekly readings in the Gospels traditionally employed in the Christian church year. Related readings in Biblical and contemporary literature. Prerequisites: Religion 1 and 2.

52. (Formerly Readings in the Epistles II.) READINGS IN THE EPISTLES. Sem. 2. Cr. 2. A study of selected problems in Christian life and ethics through the weekly readings in the Epistles traditionally employed in the Christian church year. Related readings in Biblical and contemporary literature. Prerequisites: Religion 1 and 2.

*Director, University Overseas Center, Reutlingen, Germany, 1970-1971.
†For courses given in Christ College, see page 226 of this Bulletin.
53. Formative Events in Church History. Sem. 1. Cr. 2. An approach to the Church's understanding of her nature and mission through the study of formative events in her history. Prerequisites: Religion 1 and 2.

54. (Formerly Christian Tradition IV.) Christianity and Culture. Sem. 2. Cr. 2. An approach to contemporary Christian life through its encounter and dialogue with the world. Prerequisites: Religion 1 and 2.


58. Introduction to the History of Religions. Each sem. Cr. 2 or 3. This course aims to acquaint the student with the religions of mankind, their concepts of God, their institutions and their literature. Two credits are devoted to a general survey of man's religions. Three credits provides an additional class period each week for a concentrated study of one religion. Prerequisites: Religion 1 and 2.

Note: Prerequisite for any of the following courses is six credit hours in religion or consent of the chairman of the department.


122. The Church and the Race Issue. Each sem. Cr. 2. A study of the relation of Christian ethics to the race issue, with special attention to the present situation in the United States. Field trips will be made to various sections of the Chicago area.


128. Christianity and Psychology. Sem. 2. Cr. 3. An investigation of the areas of common interest in the fields of psychology and Christian theology.
210. **The Biblical Message and Modern Man.** Sem. 2. Cr. 3. A consideration of religious questions raised by the modern mind and an examination of the answers offered by the Biblical message.

268. **The Historical Jesus.** Each sem. Cr. 3. A survey of recent scholarship on the life and message of Jesus of Nazareth. Key events and sayings of the New Testament are analyzed in order to illustrate the methods and results of the current revolution in historical Biblical studies.

**For Graduates**

310. **Religious Thought in American Culture.** Cr. 3. An investigation of American religious thought with special emphasis on the interaction between religion and American cultural development. Prerequisite: basic course in American History or approval of the chairman of the department.

320. **Biblical Studies Today.** Cr. 3. A survey and evaluation of the post-Reformation revolution in Biblical Studies, its origin and nature of the problems with which it has confronted the Church and the Church's response.

350. **The Christian Message and Eastern Cultures.** Cr. 3. A study of the historical and cultural impact of the Christian message on the life of the people of selected Eastern countries.

352. **The Church and the Secular Age.** Cr. 3. A study of secularism with special emphasis on the theological evaluation of it in the works of contemporary theologians, and an examination of the Church's life and task in response to the challenges of the secular age.

365. **The Lutheran Liturgical Heritage.** Cr. 3. A study of the theology and forms of the Lutheran Rite in their historical and religious settings. Special attention is given to the implications of current liturgical renewal for the Lutheran understanding of the Liturgy.

381. **Basic Theology of the Reformation.** Cr. 3. A study of the historical setting and structural coherence of Reformation theology in terms of its 16th century context and its role in contemporary theological and secular thought.

382. **The Dynamics of Modern Roman Catholicism.** Cr. 3. A study of the theology and structure of current Roman Catholicism in relation to the internal development of that communion since Trent.

COURSES IN RELIGIOUS EDUCATION

**For Undergraduates**

79. **Youth-Work Administration.** Sem. 1. Cr. 2. A study of the Church's youth-work programs in terms of the administrative demands they impose on the youth worker. Prerequisites: senior standing and consent of the chairman of the department.

81. **Principles of Religious Education.** Sem. 1. Cr. 2. A course dealing with the following topics: (1) aims in the teaching of religion, (2) the learning process, and (3) methods of teaching religion.

82. **The Field of Deaconess Work.** Sem. 2. Cr. 2. A survey of deaconess work, past and present. Field trips, representative lecturers from various areas of practical church work, and actual experience in the field of deaconess work will be included in the course.

*Offered in Evening Division Program only. Does not carry graduate credit.*
CHRIST COLLEGE

Professor R. Baepler (Dean); Professor Rubel; Associate Professor Reiner; Assistant Professors Affeldt, Lee, and T. Loeppe; Miss Griffin and Mr. Dolliner*

Christ College exists to provide a place in undergraduate education for special programs which combine rigor of discipline with flexibility of program, encourage the integration of knowledge, and lead the student to engagement with the non-academic world. While sharing the general purposes of Valparaiso University, Christ College does not prepare a student for a particular profession but emphasizes the importance of liberal studies, particularly the humanities, for the student's life and for public affairs. Therefore it requires its students to inquire beyond their specialized interests into the larger contexts of human thought and action. Above all Christ College encourages the restlessness of the seeker who desires to know things as they are and whose thought and imagination have been captured by some vision of things as they might be under the grace of God and the exertions of human will and intelligence.

To achieve these purposes Christ College provides

a Freshman-Sophomore Program for selected freshman and sophomore students (see below);

a range of courses and programs, largely experimental or interdisciplinary in nature, which do not naturally fall into the traditional division of work among the regular departments;

co-curricular experiences, including lectures and conferences designed to foster a reflective and civilized style of life as well as involvement in the problems of modern society;

opportunities to work out a theology of life and vocation;

a new physical setting which facilitates immediate relationships between students and faculty as well as communication among the traditional divisions of knowledge.

THE FRESHMAN-SOPHOMORE PROGRAM

The Freshman-Sophomore Program is designed to explore the educational opportunities arising from a program of intensified general studies for a relatively small group of selected freshmen and sophomores who are willing to invest more of themselves in the academic enterprise than might normally be required. The Program emphasizes the humanities, and accounts for about sixty per cent of the general education requirements of a typical student. Small classes, semi-tutorial work and an experimental flair characterize the Program. The Committee on Christ College may authorize certain variations in the normal academic requirements of a student in the Program if such variations seem desirable. It may permit him to carry additional hours, to waive prerequisites for advanced courses, and in general to tailor his program to meet his interests and needs within the general framework of the University's objectives.

Students are admitted to the Program by invitation. Most members of the Program are admitted as freshmen on the basis of an unusually distinguished high school record in academic and extracurricular activities, and on the basis of evidence indicating an ability to profit from intensified studies. A number of students may be admitted to the Program after their freshman year at Valparaiso. Such admission is also by invitation, but the Committee encourages interested students to bring their names to its attention through the office of the dean.

FRESHMAN-SOPHOMORE PROGRAM

SUGGESTED CURRICULUM FOR 1970-1971

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<thead>
<tr>
<th>First Year</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Rhetoric</td>
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<tr>
<td>Readings in the Humanities</td>
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<td>3</td>
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<tr>
<td>Sources of Western Culture I and II</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Introduction to Religious Studies (Special Section)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Second Year</td>
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<td></td>
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<tr>
<td>Masterpieces of Literature</td>
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<td>4</td>
</tr>
<tr>
<td>Philosophy of the Arts and Sciences</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Issues in Contemporary Christian Thought</td>
<td>2</td>
<td></td>
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</tbody>
</table>

CHRIST COLLEGE SCHOLARS AND ASSOCIATES

Students enrolled in Christ College are normally enrolled concurrently in one of the other four undergraduate colleges of the University and are officially designated "Members of Christ College." These students are jointly advised by their major adviser and their Christ College adviser. Members of Christ College will normally be required to meet, by course examination or other evidence of qualification, the regular requirements for graduation except where explicitly modified. The Committee on Christ College may recommend such adjustments in these requirements as are in the spirit of the University's requirements and the best interests of the students. Members of Christ College who meet the appropriate junior-senior requirements of Christ College will be graduated as "Christ College Scholars" or "Christ College Associates." A Christ College Scholar should meet the following requirements:

- The Bachelor's Essay or an appropriate example of independent study*
- Two Christ College Interdisciplinary Seminars
- Introduction to Christian Ethics
- A course in the fine arts and in philosophy

If a Christ College student is unable, by preference or because of the demands of his academic program, to meet the full requirements stated above, he shall confer with the dean to determine the minimum requirements for graduation as a "Christ College Associate."

Normally a Christ College student shall complete the Freshman-Sophomore Program and major in one of the University's departments. Special interdepartmental majors may be worked out with help of the dean and the various departments. For such programs the student must demonstrate a basic coherence and rationale in his proposal which should normally be made at the end of the sophomore year. Certain students may be ad-

*The dean's office will supply descriptive material for this project.
mitted to Christ College in full membership upon application to the Committee through the dean's office even though they have not participated in the Freshman-Sophomore Program.

Membership in Christ College is never terminated by the mechanical application of arbitrary criteria such as grade point average or academic performance over the course of a single semester. In general, Christ College students should expect to maintain a grade point average of 2.00 or better, but in every case the judgment of whether a student should be admitted, retained, or readmitted as a member of the College will be made only after thorough consideration of the probable best interests of the student.

The governing body of Christ College is the Committee on Christ College, which includes the faculty teaching in the College. Within the general framework of the University regulations the Committee conducts the affairs of the College and continually evaluates the curriculum. The Committee may allow for all members of the College those variations and special considerations enumerated above in connection with the Freshman-Sophomore Program.

URBAN STUDIES

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 12-15 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. There will be an additional fee of $100.00 for participants in this program.

The following courses offered in a residential program in Chicago in cooperation with the Associated Colleges of the Midwest will constitute a minor in Urban Studies:

Urban Studies 138 The City and Its Systems ............. 6 hours
Urban Studies 150 Power and Justice ................. 3 hours
General Studies 194 Independent Study Project ...... 3 hours

None of these courses may count toward meeting the general education requirements of the University. Students shall be admitted to this Program on the recommendation of an appropriate committee. This Program is offered for the school year of 1970-1971.

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.

THE SPECIAL PROGRAM IN THE HUMANITIES

The Humanities are concerned with the works of the human spirit, a spirit discernible in works of literature, philosophy, history, religion, and the fine arts. Together they constitute the preponderant common subject matter of the Humanities, each being a different manifestation of the same spirit. Thus these works can be explored as imaginative and intellectual constructs within historical contexts and traditions. Indeed, viewed from such a standpoint, certain works more commonly associated with social and scientific thought, are drawn into the range of concern of this Program.

The series of interdisciplinary courses which forms the core of this Program provides a context in which the traditional fields in the Humanities meet each other, take on added significance, and extend their lines of influence. Supplemented by other courses as indicated below, this series may serve as a minor concentration for students pursuing a regular major in one of the University's departments. A fuller interdepartmental Program in the Humanities may also replace a student's conventional major and minor program. Such an interdepartmental program would include a smaller concentration of courses in one particular field.

I. The following program of studies replaces a conventional major and minor combination.

A. The Core Sequence

   Humanities 101 Methods and Materials
   Humanities 170 Humanities Seminar (topic)
   Humanities 171 Humanities Seminar (topic)
   Humanities 181 Humanities Seminar (topic)
   Humanities 195 Humanities Colloquium: Value and Judgment

B. Concentration in a single field of studies:

Four courses in one field plus a tutorial or independent study project in this field of 3 to 6 hours credit.

C. Two courses in any one of the following categories, except that the category shall not include the field of concentration:

   Literature (English, American or Foreign)
   Literature of the Theatre
   History
   Theology
   Philosophy

D. Two courses in Philosophy.

E. Two courses in the fine arts are prerequisite for Humanities 170.

It is recommended that students include creative work in their program. (e.g., writing, painting, acting).

F. The regular upper division Theology requirement should be approved by the student's adviser as appropriate for this program.
It should preferably be in the area of "Theology and the Imagination."

II. The following program of studies constitutes a minor in the Humanities.

A. Humanities 101
Humanities 170
Humanities 171
Humanities 195

B. One course in Philosophy.

C. Two courses in Fine Arts are prerequisite for Humanities 170.

D. The regular upper division Theology requirement should be approved by the student's adviser as appropriate for his program. It should preferably be in the area of "Theology and the Imagination."

COURSES IN CHRIST COLLEGE

English 3. RHETORIC. Sem. 1. Cr. 3. A seminar-tutorial with emphasis on developing competence in the use of literary forms as instruments of good expression. Attention is also given to problems of logical analysis, argumentation, and invention.

English 4. READINGS IN THE HUMANITIES. Sem. 2. Cr. 3. Analysis and interpretation of texts selected from various fields in the humanities. Good written expression by students is given special attention. Prerequisite: English 3.

English 53. MASTERPIECES OF LITERATURE. Sem. 1. Cr. 4. A study of selected masterpieces of world literature. Prerequisite: English 5.

English 54. MASTERPIECES OF LITERATURE. Sem. 2. Cr. 4. Continuation of English 53. Prerequisite: English 2 or 4. A special section of this course will be offered in which special attention will be given the problem of interdisciplinary study in the arts.

Religion 55. ISSUES IN CONTEMPORARY CHRISTIAN THOUGHT. Sem. 2. Cr. 2. A study of contemporary Christian writers and the issues they deal with in their effort to relate the Christian faith to modern culture.

History 53. SOURCES OF WESTERN CULTURE I. Sem. 1. Cr. 4. A study of the evolution of Western society and its basic ideas from the beginning of Western culture in the Mediterranean World to the 17th century.

History 54. SOURCES OF WESTERN CULTURE II. Sem. 2. Cr. 4. A study of Western society since the 17th century, with particular attention to the role of science in revolutionizing and reshaping Western life.


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, 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. 3. Social and ethical analysis is brought to bear on a particular problem selected from the contemporary urban scene. Prerequisite: consent of the dean.

General Studies 140. MAN IN HIS SOCIAL CONTEXTS. Each sem. Cr. 2 or 3. An attempt to understand the decision-making process with special reference to the structure of contemporary society and the values of western civilization. The instructor may choose a particular disciplinary focus for the study.

General Studies 145. TECHNOLOGY AND HUMAN CULTURE. Sem. 2. Cr. 3. A study of the impact of technology on social organization and human imagination. Consideration of related ethical problems. Special attention given the role of cybernation in contemporary affairs. Open to juniors and seniors.

General Studies 155. TUTORIAL STUDIES. Each sem. Cr. 2-4. A course of studies arranged by a professor and one or more students. A satisfactory-unsatisfactory grade may be given if so stipulated at the beginning of the course. Open only to members of Christ College. Prerequisite: consent of the dean.

General Studies 185. TWENTIETH CENTURY WRITERS. Sem. 2. Cr. 3. A study of selected writings which reflect and shape the contemporary mind. Critical attention is devoted to both the form and the content of the works studied so that their special character and influence may be evaluated. Prerequisites: junior standing and consent of the dean of the college.

General Studies 192. CONTEMPORARY VIEWS OF MAN. Sem. 2. Cr. 3. A pro-seminar offered under the supervision of the Committee on Christ College. The purpose of the course is to make a thorough study of a limited number of works by significant contemporary writers in the various disciplines in order to ascertain the writers' views of man. In addition to attending the sessions of the pro-seminar, each student will be required to meet with a faculty member for a period of one hour per week. Approval of the project must be obtained from the head of the department concerned and the dean of the college. Only under special circumstances may a student register for this course in a regular summer session. However, under certain circumstances, some credit may be assigned for a portion of the work done during the summer months.

Humanities 101. METHODS AND MATERIALS. Sem. 1. Cr. 3. A study of the methods employed in works taken from selected fields within the Humanities with an aim to examine the way in which these methods reflect basic presuppositions about the materials, the nature, and the task of these fields. Open to juniors and seniors.

Humanities 170. HUMANITIES SEMINAR. Sem. 1 or 2. Cr. 3. An interdisciplinary study of the thought, sensibility and social context of a particular cultural period (e.g., Romanticism) through an examination of selected works and facts from that period. Prerequisites: Humanities 101, a course in music or art, and consent of the dean.

Humanities 171. HUMANITIES SEMINAR. Sem. 1 or 2. Cr. 3. An interdisciplinary study of a particular theme or topic on the basis of works selected from the various fields of the Humanities. Prerequisites: Humanities 101, a course in music or art, and consent of the dean.

Humanities 181. HUMANITIES SEMINAR. Each sem. Cr. 3. An interdisciplinary course dealing with various problems or themes in the Humanities. Prerequisite: consent of the dean.

Humanities 195. HUMANITIES COLOQUIUM: Value and Judgment. Sem. 1 or 2 Cr. 3. A study of the aesthetic and intellectual problems encountered in evaluating works in the Humanities. Open to seniors only. Prerequisite: consent of the dean.
College of Business Administration
THE COLLEGE OF BUSINESS ADMINISTRATION

Professor Laube (Dean)

OBJECTIVES

The College of Business Administration, as an integral part of Valparaiso University, shares the philosophy and the general objectives of the University.

The special objective of the College of Business Administration, however, is to provide training for business careers and for graduate work in four 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 four departments: the Department of Accounting, the Department of Economics, the Department of Finance, and the Department of Management and Marketing.

CURRICULA

The College of Business Administration offers four 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 four departments: Accounting, Economics, Finance, or Management and Marketing. The requirements for a major in each of these four departments are set forth in the curricula described below.

Each of the four 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, but six credit hours must be in one of the social sciences taught in the College of Arts and 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 Student Association of the College of Business Administration. This association offers the student the opportunity for development through field trips, a guest speaker program, and participation in other extra curricular activities.

CO-OPERATIVE PROGRAM

The College of Business Administration has established an arrangement with the Internal Revenue Service such that two students each year from the Department of Accounting participate in a work-study program with the Gary, Indiana office of the Internal Revenue Service. Students selected for this program work during the summer between their junior and senior years and half time during their senior year. This arrangement is designed to familiarize the student with accounting practices and also to give him a singular advantage should he elect to join the Internal Revenue Service after graduation.

GRADUATION REQUIREMENTS

In order to be eligible for the degree of Bachelor of Science in Business Administration, a student must complete one of the four curricula prescribed by the College of Business Administration and must meet all the additional requirements for graduation set by the University (see pages 109-112 of this bulletin).

No credits earned in secretarial science and only GE 13 and GE 16 earned in the College of Engineering or their equivalents may count towards the degree of Bachelor of Science in Business Administration. Students who transfer to Valparaiso University with credit in secretarial science must complete either Mathematics 51 and 52 or Mathematics 52 and 53 or Mathematics 75 and 76.

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 102 of this bulletin.

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 102 of this bulletin.
### CURRICULUM LEADING TO THE DEGREE OF
### BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
### WITH A MAJOR IN ECONOMICS

#### CURRICULUM LEADING TO THE DEGREE OF
### BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
### WITH A MAJOR IN FINANCE

#### FIRST YEAR

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<td>English 2</td>
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#### SECOND YEAR

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<td>Economics 185</td>
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<tr>
<td><strong>Natural Science with Laboratory</strong></td>
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<tr>
<td>*<strong>Liberal Arts Elective</strong></td>
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#### THIRD YEAR

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<tr>
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#### FOURTH YEAR

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**Total Credits: 128**

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**Students must complete either Mathematics 51 and 52 or Mathematics 52 and 53 or Mathematics 75 and 76.**

**Students must complete either Mathematics 51 and 52 or Mathematics 52 and 53 or Mathematics 75 and 76.**

**Students must complete either Mathematics 51 and 52 or Mathematics 52 and 53 or Mathematics 75 and 76.**

**Students must complete either Mathematics 51 and 52 or Mathematics 52 and 53 or Mathematics 75 and 76.**

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*These 6 credits must be taken in one field.*

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*These 6 credits must be taken in one field.*
CURRICULUM LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION
WITH A MAJOR IN MANAGEMENT AND MARKETING

THE DEPARTMENT OF ACCOUNTING

Associate Professor Sievers (Chairman); Assistant Professors R. Beilfuss, Ehrenberg, and May*

COURSES IN ACCOUNTING**

11. ACCOUNTING PRINCIPLES. Sem. 1. 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, and the analytical and interpretive functions of accounting for management. Laboratory fee, $5.00.

12. ACCOUNTING PRINCIPLES. Sem. 2. 2+2, Cr. 3. A continuation of Accounting 11. Prerequisite: Accounting 11 or the equivalent. Laboratory fee, $5.00.

21. INTERMEDIATE ACCOUNTING I. Sem. 1. Cr. 3. A study of the preparation and analysis of working papers and statements, problems relating to the organization and operation of corporations, and the classification and valuation of various balance sheet accounts. Prerequisite: Accounting 12 or the equivalent.

22. INTERMEDIATE ACCOUNTING II. Sem. 2. Cr. 3. A continuation of Accounting 21. Prerequisite: Accounting 21 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, and other miscellaneous topics. Topics also include budgeting, profit volume relationships, and profit planning. Prerequisite: Accounting 12.

112. ADVANCED COST ACCOUNTING. Sem. 2. Cr. 3. A course designed to prepare students to analyze and use cost information for decision-making purposes. Direct costing, cost-volume-profit relationships, standard costing, and variance analyses are covered in more depth than in Accounting 111. Prerequisite: Accounting 111.

115. ADVANCED ACCOUNTING. Sem. 1. Cr. 3. A course dealing with the special problems of business organizations expanding into multiple groups, including the federal tax dimension. Prerequisite: Accounting 21.

116. ACCOUNTING PROCEDURE IN SPECIAL AREAS. Sem. 2. Cr. 3. A course dealing in accounting procedure in special areas and the tax regulations affecting income determination. This course is designed primarily for students who intend to enter public accounting. Prerequisite: Accounting 22. (Not open to students who have had Accounting 113.)

120. INCOME TAX ACCOUNTING. Sem. 2. 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. Prerequisite: Accounting 21.

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. Prerequisite: Accounting 22.

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 Department of Finance.


**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.
128. **Principles of Auditing.** Sem. 2. Cr. 3. A study of the application of accounting theory and practice to the procedure followed in performing the various steps in balance sheet, detailed and special audits. Prerequisites: Accounting 111 and 115.

129. **Special Problems in Accounting.** Each sem. Cr. 1-3. A course in which a special topic in accounting will be given intensive study. The topic will vary from year to year. Prerequisite: senior standing in the College or consent of the head of the department.

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**THE DEPARTMENT OF ECONOMICS**

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

**COURSES IN ECONOMICS**

71. **Principles of Economics.** Sem. 1. 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.** Sem. 2. Cr. 3. A continuation of Economics 71. Prerequisite: Economics 71 or its equivalent.

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.)

85. **Statistics.** Each sem. Cr. 3. A course in the elementary principles of the statistical method and their application to business and economic problems. Prerequisite: Economics 72 or senior standing in mechanical engineering.

86. **Statistics.** Sem. 2. Cr. 3. A continuation of Economics 85. Prerequisite: Economics 85.

106. **Economic and Commercial Geography.** (Also offered as Geography 64.) 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 inter-regional and international trade, centers, and routes of trade. (Not open to students who have had Geography 151 or 156.)

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 51 and 52 or the equivalent and Economics 72, plus either a statistics or a mathematics course numbered above 52 or its equivalent. Laboratory fee, $10.00.

171. **Government Regulation of Business.** (Also offered as Management 143.) Each sem. Cr. 3. A survey of the operation and effectiveness of government regulation of business, including policies designed to promote competition. Prerequisite: Economics 72 or Accounting 12.

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 72 or junior standing and consent of the chairman of the department.

174. **Public Finance.** (Also offered as Finance 166.) Sem. 2. Cr. 3. A study of the general principles of public revenues, public expenditures, public indebtedness, fiscal administration, and taxation, in their relationship to economic activity and growth. Prerequisite: Economics 72.

175. **Economic Insecurity and Social Insurance.** (Also offered as Finance 156.) Sem. 2. Cr. 3. An analysis of the socio-economic risks of accident, disease, unemployment, old age, poverty, and the social insurance and welfare programs designed to meet these risks. Prerequisite: Economics 72.

176. **Foreign Exchange and Trade.** (Also offered as Finance 168.) Sem. 2. Cr. 3. A study of foreign trade and exchange and international indebtedness and trade problems. Prerequisite: Economics 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 bargaining; government regulation of labor relationships; and an economic analysis of wage-employment problems. Prerequisite: Economics 72.

185. MONEY AND BANKING. Sem. 1. Cr. 3. The banking systems of the United States and other selected countries; monetary theory and policy; and the role of money in the determination of economic activity. Prerequisite: Economics 72.

186. MANAGERIAL ECONOMICS. (Also offered as Management 146.) Sem. 2. Cr. 3. The application of economic analysis to business decision-making. Prerequisites: Economics 72 and 85.

187. DYNAMIC ECONOMIC ANALYSIS. Sem. 2. Cr. 3. A critical examination of current theories and techniques used in macro-economic analysis. Prerequisites: Economics 85 and 282. (Offered in alternate years.)

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

275. ECONOMIC HISTORY OF THE UNITED STATES. Sem. 1. Cr. 3. The history of the economic development of the United States from the colonial period to the present. Prerequisites: junior standing and consent of the chairman of the department.

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. Prerequisite: Economics 72.

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. Prerequisite: Economics 72.

286. THE HISTORY OF ECONOMIC THOUGHT. Sem. 2. Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisites: junior standing and consent of the chairman of the department.

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. Prerequisites: Accounting 12 and Economics 72.

53. BUSINESS LAW. Sem. 1. Cr. 3. A study of the basic legal principles of business relationships, including the law of contracts, of agency, of negotiable instruments, of sales, of property, of partnerships, and of corporations. Prerequisite: Accounting 12 or Economics 72.

54. BUSINESS LAW. Sem. 2. Cr. 3. A continuation of Finance 53. Prerequisite: Finance 53.

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.

152. CONTRACTS AND SPECIFICATIONS. Sem. 2. Cr. 2. A study of the basic principles of the law of contracts with emphasis upon the preparation of engineering contracts and specifications. Prerequisite: junior standing in the College of Engineering.

153. BUSINESS RISK MANAGEMENT. Sem. 1. Cr. 3. A study of the application of risk principles to static and dynamic pure risks in business. Emphasis is given to the relationship of insurance, self-insurance, and non-insurance techniques to the protection of business assets. Prerequisite: Finance 51.

154. LIFE AND HEALTH INSURANCE. Sem. 2. Cr. 3. An analysis of the alternative techniques for protecting against economic losses for the individual through death, disability, and retirement. Prerequisite: Finance 51.

155. GROUP INSURANCE AND PENSIONS. Sem. 1. Cr. 3. A detailed examination of the group approach to the provision of death, disability, and retirement benefits. Prerequisite: Finance 51.

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

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. Sem. 1. Cr. 3. An analysis of the organization of security exchanges and institutions; an introduction to the principles of security analysis and investment and the methods of measuring, reducing, and shifting risk. Prerequisite: Finance 61.

164. SECURITIES ANALYSIS. Sem. 2. Cr. 3. An advanced analysis of the techniques and methods utilized in the evaluation of securities. Prerequisites: Finance 61 and consent of the chairman of the department.

165. BUSINESS CONDITIONS ANALYSIS. Sem. 2. Cr. 3. An analysis of the methods and techniques of measuring past economic, financial, and business trends in order to forecast the direction, intensity, and variations of business activity. Prerequisite: Economics 72.
166. PUBLIC FINANCE. (Also offered as Economics 174.) Sem. 2. Cr. 3. A study of the general principles of public revenues, public expenditures, public indebtedness, fiscal administration, and taxation in their relationship to economic activity and growth. Prerequisites: Accounting 12 and Economics 72.

168. FOREIGN EXCHANGE AND TRADE. (Also offered as Economics 176.) Sem. 2. Cr. 3. A study of foreign trade and exchange, international indebtedness and trade problems. Prerequisites: Accounting 12 and Economics 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.

THE DEPARTMENT OF MANAGEMENT AND MARKETING

Professor Laube (Acting Chairman); Assistant Professor Bierwagen;
Mr. Barnes, Mr. Pellegrini, and Mr. Tilly

COURSES IN MANAGEMENT AND MARKETING

31. PRINCIPLES OF MARKETING. Each sem. Cr. 3. An introductory study of the various institutions involved in the marketing of goods, including middlemen, wholesale and retail establishments, commodity exchanges, and cooperatives. Prerequisite: Accounting 12 or sophomore standing in the College.

41. PRINCIPLES OF MANAGEMENT. Each sem. Cr. 3. A study of the principles of the management of the modern business firm. Prerequisite: Accounting 12 or 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 51 and 52 or the equivalent and Accounting 12, plus either a statistics or a mathematics course numbered above 52 or its equivalent. Laboratory fee, $10.00.

131. RETAILING. Sem. 1. Cr. 3. A survey of modern practices in retailing, such as store location, organization, buying, sales promotion, and the selection and training of sales people. Prerequisite: Management 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: Management 31 and 41.

133. ADVERTISING. Sem. 1. Cr. 3. A study of the role of advertising in the marketing structure. Prerequisite: Management 31.

137. CONSUMER MOTIVATION. 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. Prerequisites: Management 31 and senior standing in the College.

138. MARKETING RESEARCH. Sem. 2. Cr. 3. A study of important research concepts and techniques as applied to marketing decision-making. Emphasis will be placed upon marketing investigation and analysis of research results. Prerequisites: Management 132 and Economics 85.

140. BUSINESS POLICIES. Sem. 1. Cr. 3. A course in which the student obtains experience in analyzing business situations and selecting alternate courses of action. Emphasis is placed upon business decision-making. Prerequisites: Management 41 and senior standing in the College.

141. OPERATIONS MANAGEMENT. Sem. 2. Cr. 3. A survey of the major organizational and managerial problems connected with production. Prerequisite: Accounting 12 or senior standing in mechanical engineering.

142. PERSONNEL MANAGEMENT. Sem. 1. Cr. 3. A description and critical analysis of the problems connected with the selection, maintenance, placement, and compensation of the working force. Prerequisite: Accounting 12.

143. GOVERNMENT REGULATION OF BUSINESS. (Also offered as Economics 171.) Each sem. Cr. 3. A critical survey of the operation and effectiveness of government regulation of business, including policies designed to promote competition. Prerequisite: Accounting 12 or Economics 72.
144. **Mathematical Models in the Social Sciences.** (Also offered as Mathematics 163.) Sem. 1. Cr. 3. This course is intended for mathematics minors who major in a social science. Topics will be chosen according to the interests of the students. These may include linear and dynamic programming; the Estes learning model, inventory models, Leontief input-output model, and simulation techniques. Prerequisites: Mathematics 52 and 53 or the equivalent. (Offered upon sufficient demand.)

145. **Industrial Relations.** Sem. 1. Cr. 3. A study of the economic, psychological, and legal aspects of employer-employee relations with special attention to wage determination, grievance procedure, arbitration, and the negotiation of collective-bargaining agreements. Prerequisite: Management 142.

146. **Managerial Economics.** (Also offered as Economics 186.) Sem. 2. Cr. 3. The application of economic analysis to business decision-making. Prerequisites: Economics 72 and 85.

147. **The Administrative Process and Organization.** Sem. 1. Cr. 4. A critical analysis of business organization, including the role of the manager, and the place of the individual. Prerequisite: senior standing in the College or consent of the chairman of the department.

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 or Marketing.** 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.
THE COLLEGE OF ENGINEERING

Professor Kruger (Dean); Professor Hesse (Dean Emeritus); Professor Mortimer (Secretary)

CURRICULA AND DEPARTMENTS

The College of Engineering offers four-year curricula leading to the degree of Bachelor of Science in Civil, Electrical, and Mechanical Engineering. These programs are accredited by the Engineers' Council for Professional Development. A five-year program is also offered for students desiring to earn the degree of Bachelor of Arts in addition to the degree of Bachelor of Science.

The College of Engineering is a member of the Engineers' Council for Professional Development and an institutional member of the American Society for Engineering Education.

ENGINEERING EDUCATION AT VALPARAISO UNIVERSITY

The engineer today occupies a unique and important position in society. Being a person basically trained in the physical sciences, the engineer is called upon to make important technical decisions that affect the conditions under which people live, work, and play. Today's industrial systems have become so complex that the person who manages them must be well versed in all the technical phases of industry. More and more engineers are being called upon to serve as managers of plants, advisers to governmental bodies, and directors of major scientific projects. It is, therefore, obvious that an engineer must be more than a technically competent person. Valparaiso University believes that it is important for the engineer to have a proper perspective of the social, moral, and ethical problems of today. It further believes that such a perspective can be gained only by full participation in the academic, social, cultural, and spiritual life of a Christian university.

The College of Engineering has, therefore, been made an integral part of the University in order to give the student an opportunity to participate in all phases of University life.

ACADEMIC PROGRAM

The academic program of the College of Engineering of Valparaiso University is intended to prepare the undergraduate student to enter either industry or graduate school by giving him a good general education and by developing in him an understanding of the fundamental engineering sciences and techniques.

The program of the engineering student therefore includes a variety of courses in the liberal arts. The work of the first two years is designed to give the student a good general education including a firm foundation in mathematics and the physical sciences. In the last two years, on the other hand, the student receives the broadest possible training in the particular field of engineering that he has chosen.

LOCATION

Valparaiso University's location, approximately fifty miles from the heart of Chicago and a short distance from the Calumet and St. Joseph Valley industrial areas of Indiana, provides opportunity for close contact with
industry through inspection trips. Student members of the professional engineering societies are welcome at meetings of the parent societies in the area.

ORGANIZATION

The College of Engineering constitutes a separate administrative and instructional unit of the University and is under the direction of the Dean of the College of Engineering. It is divided into the Department of Civil Engineering, the Department of Electrical Engineering, and the Department of Mechanical Engineering. Other departments will be added only as demands and facilities warrant. Present plans call for the utmost development of the existing departments before any additions are made.

PLANT AND FACILITIES

The College of Engineering is located in the Gellersen Engineering-Mathematics Center. This new building was made possible through the generosity of the late William A. Gellersen of Oakland, California, and houses the offices, classrooms, and laboratories of the College of Engineering, as well as the offices, classrooms and computer center of the closely-related Department of Mathematics of the College of Arts and Sciences.

The Laboratories of the Department of Civil Engineering

Materials Testing Laboratory—This laboratory contains equipment necessary to conduct investigations of the behavior of real engineering materials under static, impact, and cyclic loading conditions. This equipment includes both mechanical and hydraulic universal testing machines with capacities up to 60,000 pounds for applying tensile, compressive, torsional, and flexural loads. Fatigue testing machines are also available for applying alternating direct stress and/or bending stress to test specimens or to actual machine or structural components. In addition, instrumentation is available for measuring and recording the deformation and deflection resulting from the applied load.

Fluids Mechanics Laboratory—This laboratory contains apparatus for instructional use and also for student and staff research activities. The equipment includes: devices for measuring fluid pressure, discharge and velocity, Reynolds number apparatus, smoke tunnel, a tilting flume, subsonic wind tunnel, a water table, a pipe network, electric analog equipment, a pump-Pelton wheel-impulse rig, a Hele-Shaw unit, a set of instructional films and miscellaneous supporting apparatus.

Environmental Engineering Laboratory—This laboratory is equipped with apparatus required for physical, chemical, and bacteriological analyses of air, water, and waste water. The laboratory is also equipped to handle individual investigation and research studies by the students and staff in the field of environmental engineering.

Concrete and Soil Mechanics Laboratory—This laboratory contains the equipment required for conducting the ASTM standard tests on Portland Cement, aggregates, cement and masonry products and soil as an engineer-

ing material. Among the major pieces of equipment are a 400,000 pound compression testing machine, direct shear, unconfined compression, consolidation and triaxial testing machines.

The Laboratories of the Department of Electrical Engineering

Systems Analysis Laboratory—This laboratory is equipped with electromechanical and electro-hydraulic devices and components, transducers, recorders, and breadboard apparatus. Analog computers and special measuring devices are used for component modeling and system studies.

Circuits Laboratory—Instruction in basic electrical instrumentation and circuit testing is given in this laboratory. Eight work stations are equipped with signal generators, power supplies, oscilloscopes, metering and components necessary for study of elementary electrical and electronic circuitry. Electric and electromechanical systems are modeled and tested.

Junior Laboratories—Two laboratory rooms are equipped with the necessary instrumentation and devices for conducting studies in semiconductor electronics, active and passive networks, transmission media and signal spectra.

Microwave Laboratory—This laboratory is equipped with the necessary instrumentation for making precision measurements of electrical quantities at all frequencies. It also contains the necessary signal sources, cabling, wave guides, and auxiliary equipment for the study of the propagation of electrical energy at high frequencies.

Energy Conversion—This laboratory is equipped to conduct studies of the behavior of electrical energy conversion devices and their control under static and dynamic conditions. In addition to conventional motors and generators, special educational machines and a Westinghouse Generalized Machine are available for study.

Logic and Communication Theory—This laboratory is equipped with noise and signal generating equipment, modulation testing devices and special measuring devices required to study the transmission of information. It also contains various control and logic devices which permit the simulation and testing of control and switching system logic.

The Laboratories of the Department of Mechanical Engineering

Energetics—This laboratory is equipped for the study of mobile power sources. Equipment consists of reciprocating and rotating (Wankel) spark ignition and compression ignition engines, gas turbine, fuel cell and associated measurement and analysis instruments.

Experimental Stress—This laboratory contains the necessary equipment for experimental studies of stress and strain distribution using Brittle coatings, photoelasticity, electrical strain gage, and Birefringent coating.

Heat Transfer and Gas Dynamics—This laboratory is equipped with a heat exchanger, natural convection loop, refrigeration and air conditioning units, blowers, compressors, shock tube, flow table, thrust stand, and a supersonic wind tunnel for the study of heat transfer and compressible fluid flow.
Manufacturing Processes—This laboratory contains a small but complete up-to-date machine shop and foundry. It is equipped to conduct fundamental metallurgical studies, machine tool measurements, and production method studies.

Measurements and Controls—This laboratory contains the equipment for measurement in the areas of pressure, temperature, force, torque displacement and fluid flow. Equipment for both static and dynamic studies are available. The laboratory is also equipped with standard process control devices as well as complete process systems and process analogs.

Vibrations and Sound—This laboratory contains a vibration table, electronic vibration excitation equipment, system models, and vibration and sound measuring instrumentation.

Interdepartmental Laboratories

The Computer Center—The digital computer laboratory, which is under the administrative direction of the mathematics department, is housed in the Gellersen Engineering-Mathematics Center and is available for use by the students and faculty of the College of Engineering. The Center is equipped with an IBM 1711 digital computer system complete with analog to digital and digital to analog interface equipment and disc pack memory console. The Center also houses the necessary accessory devices such as printers, sorters, key punches, and data link terminals from each of the engineering bays. This system is used for academic purposes only.

Analog Computer Laboratory—This laboratory is equipped with electronic analog computers, function generators, and output devices required for the simulation of various engineering problems and processes on the analog computer.

STUDENT ORGANIZATIONS

Professional development of the engineering students is encouraged through the activities of the Engineering Society. Upper Division students are encouraged to join the local student chapters of the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the Institute of Electrical and Electronic Engineers. Officers of these Founder Societies form the Joint Engineers Council which administers the affairs of the Engineering Society. The Engineering Society conducts a general interest program for all engineering students and sponsors social and recreational activities for the students of the College of Engineering.

The Engineering Supply Store is a student controlled and operated non-profit store that supplies the students with engineering materials at reduced prices. The surplus earnings of the store are used to finance the activities of the Engineering Society.

TAU BETA PI

Junior and senior students who have distinguished themselves by high scholarship, exemplary character, unselfish activity, and breadth of interest in their profession may be elected to membership in Tau Beta Pi, the national engineering honorary fraternity. The Delta Indiana chapter of Tau Beta Pi was installed at Valparaiso University on March 23, 1963.
normally offered within the departmental framework of the various colleges; the intention of such a program is to prepare a student to meet both personal and professional educational goals in a much more comprehensive manner.

HONORS WORK
A student of exceptional ability may pursue a program of independent study or research in place of up to six semester credits during his senior year. Details of this program may be obtained from the office of the Dean of the College of Engineering.

INSPECTION TRIPS
Inspection trips to industrial plants are required of all engineering students. These trips are arranged and conducted by members of the Engineering faculty and are designed to correlate the instruction with the industries visited.

PLACEMENT
Each year the University Placement Service provides arrangements so that interested organizations may interview students on campus. The Placement Service will also make contacts for students with firms who are not in a position to interview prospects on campus. Representatives from approximately two hundred organizations from all parts of the United States visit the campus each year seeking engineering students.

APPROVAL OF SCHEDULES
All engineering students must have their schedules approved by their advisers at the beginning of each semester.

THE COLLEGE OF ENGINEERING

ENGINEERING CURRICULA
(Four-Year Program)
The first two years are common for all departments.
(In the three columns for each semester, the first is the number of lecture hours per week; the second the number of laboratory hours per week; and the third the number of semester hours of credit.)

FIRST YEAR

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<tr>
<td>GE 13. Graphics I ..................................................</td>
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<td>E 1. Freshman Composition ............................................</td>
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<td>Ch 51E. General Chemistry ...........................................</td>
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<td>*GE 25. Engineering Laboratory .......................................</td>
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<td>PE Required Phys. Ed. ..................................................</td>
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<td>R Required Religion ....................................................</td>
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<td>Total Credits ..................................................................</td>
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Second Semester

| GE 16. Graphics II .......................................................... | 1 | 4 | 2 |
| M 76. Introductory Calculus ............................................. | 4 | 0 | 4 |
| E 2. Freshman Composition ................................................ | 3 | 0 | 3 |
| Ch 52E. General Chemistry ................................................ | 3 | 0 | 3 |
| **GE 25. Engineering Laboratory ......................................... | 0 | 3 | 1 |
| PE Required Phys. Ed. ...................................................... | 4 | 2 | 1 |
| A GE 93. Applied Mechanics I ............................................. | 4 | 0 | 4 |
| R Required Religion ........................................................ | 2 | 0 | 2 |
| B GE 63. Engineering Science I ........................................... | 2 | 0 | 2 |
| Total Credits .................................................................. | 15 (6/9) (18/17) |

SECOND YEAR

First Semester

| M 77. Calculus and Linear Algebra ...................................... | 4 | 0 | 4 |
| GE 97. Electrical Science I .............................................. | 3 | 3 | 4 |
| E 51, 52, or 55. English or World Literature .......................... | 3 | 0 | 3 |
| A GE 63. Engineering Science I .......................................... | 2 | 0 | 2 |
| R Required Religion ........................................................ | 2 | 0 | 2 |
| B GE 94. Applied Mechanics II .......................................... | 3 | 0 | 3 |
| GE 93. Applied Mechanics I ................................................. | 4 | 0 | 4 |
| GE 70. Thermodynamics ...................................................... | 4 | 0 | 4 |
| Total Credits .................................................................. | 17 3 18 |

Second Semester

| M 78. Calculus and Differential Equations .......................... | 4 | 0 | 4 |
| GE 98. Electrical Science II .............................................. | 3 | 3 | 4 |
| Ec 73. General Economics ................................................| 3 | 0 | 3 |
| GE 64. Engineering Science II ............................................ | 3 | 0 | 3 |
| A GE 70. Thermodynamics .................................................. | 3 | 0 | 3 |
| B GE 94. Applied Mechanics II .......................................... | 3 | 0 | 3 |
| Total Credits .................................................................. | 16 3 17 |

*Students who transfer to Valparaiso University with 30 or more semester credits (with no religion credits) will be required to take one course in religion each year of residence. Religion credits transferred from an approved school may be counted toward the eight-hour University requirement but a minimum of one course in religion is required of any transfer student.

**Students who fail to pass the English grammar test given to all new students are required to take a non-credit course in English grammar in addition to Freshman Composition.

*GE 25 is offered to one-half of each freshman class each semester. Group A and group B will follow sequence of course offerings as indicated above.
### THE DEPARTMENT OF CIVIL ENGINEERING

Professor Peller (Chairman); Professors Mortimer and El-Naggar; Associate Professors Marino and Schueler; Assistant Professor Khanna

#### CURRICULUM

**THIRD YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CE 100. Surveying</td>
<td>CE 107. Materials Engineering</td>
</tr>
<tr>
<td>CE 106. Fluid Mechanics I</td>
<td>CE 110. Civil Engineering Laboratory I</td>
</tr>
<tr>
<td>EE 130. Applied Electrical Engineering</td>
<td>CE 111. Civil Engineering Laboratory II</td>
</tr>
<tr>
<td>GE 159. Digital and Analog Methods</td>
<td>CE 121. Environmental Engineering I</td>
</tr>
<tr>
<td>R Required Religion</td>
<td>CE Elective</td>
</tr>
<tr>
<td>Total Credits 16 3 17</td>
<td>Total Credits 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>CE 113. Fluid Mechanics II</td>
<td>CE 117. Structural Design II</td>
</tr>
<tr>
<td>CE 115. Structural Analysis II</td>
<td>CE 160. Engineer in Society</td>
</tr>
<tr>
<td>CE 116. Structural Design I</td>
<td>CE 163. Transportation</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 Liberal Arts Elective</td>
</tr>
<tr>
<td>R Required Religion</td>
<td>Approved Natural Science or Math Elective</td>
</tr>
<tr>
<td>Total Credits 16 3 17</td>
<td>Total Credits 14 6 16</td>
</tr>
</tbody>
</table>

Total Credits, 136

### THE DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Shewan (Chairman); Professor Dauberman; Associate Professors Luecke, Vater, and Vocke; Mr. Hart and Mr. Schoech

#### CURRICULUM

**THIRD YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>EE 131. Electromagnetic Field Theory</td>
<td>EE 134. Materials Science</td>
</tr>
<tr>
<td>EE 135. Network Analysis I</td>
<td>EE 136. Network Analysis II</td>
</tr>
<tr>
<td>EE 140. Engineering Electronics I</td>
<td>EE 141. Engineering Electronics II</td>
</tr>
<tr>
<td>EE 132. Junior EE Laboratory I</td>
<td>EE 133. Junior EE Laboratory II</td>
</tr>
<tr>
<td>GE 159. Digital and Analog Methods</td>
<td>CE 106. Fluid Mechanics I</td>
</tr>
<tr>
<td>R Required Religion</td>
<td>CE Liberal Arts Elective</td>
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<tr>
<td>Total Credits 14 6 16</td>
<td>Total Credits 14 6 16</td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>EE 142. Engineering Electronics III</td>
<td>EE 158. Communication Theory</td>
</tr>
<tr>
<td>EE 151. Energy Conversion</td>
<td>EE 154. System Theory II</td>
</tr>
<tr>
<td>EE 153. System Theory I</td>
<td>R Required Religion</td>
</tr>
<tr>
<td>R Required Religion</td>
<td>SP 40. Fundamentals of Speech</td>
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<td>Add two of the following:</td>
<td>Add two of the following:</td>
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<tr>
<td>EE 144. Microwaves Engineering</td>
<td>EE 148. Logic Design</td>
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<tr>
<td>EE 156. Servomechanism Design</td>
<td>EE Approved Engineering or Mathematics Elective</td>
</tr>
<tr>
<td>EE Approved Engineering or Mathematics</td>
<td>EE 152. Logic Design</td>
</tr>
<tr>
<td>Total Credits 16 6 18</td>
<td>Total Credits, 136</td>
</tr>
</tbody>
</table>

Total Credits 16 3 17
THE DEPARTMENT OF MECHANICAL ENGINEERING
Professor Zoss (Chairman); Professors Hesse, Isbell, and Kruger; Associate Professor Lehmann; Assistant Professors Lux, Rose, and Weiss

COURSES IN ENGINEERING*,**

GE 4. ELEMENTARY GRAPHICS. Sem. 1. 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 13. GRAPHICS I. Sem. 1. 1+4, Cr. 2. The first course in the theory and techniques of descriptive geometry. Emphasis is placed on theoretical geometric projections including line and plane principles in space, orthographic projections with auxiliary and oblique views, intersections, and developments. Only four semester credits (GE 13 and GE 16) may be counted toward a degree offered by the College of Business Administration.

GE 16. GRAPHICS II. Sem. 2. 1+4, Cr. 2. The second course in the theory and techniques of engineering graphics. Emphasis is placed on perspective projections, pictorial representations including sectioning techniques, size description and dimensioning practice, specifications for graphical presentations, identification and description of engineering elements, an introduction to mechanized data handling, microfilm, and technical graphs supplements theoretical concepts. Prerequisite: GE 13.

GE 25. ENGINEERING LABORATORY. Each sem. 0+3, Cr. 1. An introductory course in engineering methods and applications. Experiments will be conducted in Civil, Electrical, and Mechanical Engineering Departments. Emphasis will be placed on techniques of experimentation, measurement methods, and engineering applications of physical concepts. Laboratory fee, $10.00.

GE 63. ENGINEERING SCIENCE I. Sem. 1. 2+0, Cr. 2. An introduction to the theory of wave motion with specific application to sound and physical optics. Prerequisite: Mathematics 76 or concurrent registration.

GE 64. ENGINEERING SCIENCE II. Sem. 2. 3+0, Cr. 3. A study of the fundamental laws of atomic and nuclear structure, including properties of the electron and the special theory of relativity as applied to atomic and subatomic particles. A study is included of the development of nuclear energy and its application and the use of isotopes in industry. Prerequisite: Mathematics 76.

GE 70. THERMODYNAMICS. Each sem. 3+0, Cr. 3. The study of the laws of thermodynamics and the general energy equation. The theory of gas processes and gas cycles with applications to gas compressors and gas engines. Prerequisite: Mathematics 76 or concurrent registration.

GE 93. APPLIED MECHANICS I. Each sem. 4+0, Cr. 4. Statics: resolution and composition of forces; moments; principles of equilibrium and application to trusses and mechanical frames; friction; centroids and second moments of areas. Prerequisite: Mathematics 75 or concurrent registration.

GE 94. APPLIED MECHANICS II. Each sem. 3+0, Cr. 3. A basic course in kinetics. Motion of a particle in rectangular, curvilinear, and polar coordinates, motion of a rigid body; forces involved in moving systems; work and energy relations; impulse and momentum; periodic motion. Prerequisites: Mathematics 76 or concurrent registration and GE 93.

*Not more than ten 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.

**Only four semester credits (GE 13 and GE 16) may be counted toward a degree offered by the College of Business Administration.
GE 97. ELECTRICAL SCIENCE I. Each sem. 3+3, Cr. 4. An introduction to electric and magnetic fields and to the fundamental laws of electricity and the application of these laws to the development of electric circuits. Properties of linear circuit elements; Kirchhoff’s laws; Thevenin and Norton equivalent circuits; the response of linear circuits to DC and AC energy sources; and the definitions of effective values and average power of periodic waveforms. Prerequisite: Mathematics 76 or concurrent registration. Laboratory fee, $10.00.

GE 98. ELECTRICAL SCIENCE II. Each sem. 3+3, Cr. 4. A continuation of GE 97. Principles and applications of electronic devices such as diodes and transistors; electromagnetic devices such as solenoids, transformers, and rotating machines; and transducers such as strain gauges, thermocouples, phototubes, and Hall effect devices. Prerequisite: GE 97 or the equivalent. Laboratory fee, $10.00.

GE 159. DIGITAL AND ANALOG METHODS. Each sem. 3+0, Cr. 3. An introductory course in the use of digital and analog computers: programming for the digital computer in algorithmic language, selected topics in numerical analysis, the programming of linear problems on the electronic differential analysis (analog) computer with emphasis on engineering applications. Prerequisites: Mathematics 76 and junior standing in the College of Engineering.

GE 195. SENIOR PROBLEM. Each sem., variable credit, not to exceed a maximum of 3 credits per semester, and not to exceed a total of 6 credits. Selected students are permitted to work out a special problem in their particular field under the supervision of a member of the faculty. Each student will be required to keep a progress notebook and to turn in a final report, typed in triplicate and in approved form. Open only to students with acceptable senior standing upon permission of the faculty and approval of the Dean of the College of Engineering.

THE DEPARTMENT OF CIVIL ENGINEERING

CE 100. SURVEYING. Sem. 1. 1+3, Cr. 2. Theory of distance and angular measurements, theory of errors, introduction to the use of surveying equipment, field practice, route surveying. Prerequisites: GE 16 and Mathematics 76. Laboratory fee, $10.00.

CE 103. MECHANICS OF MATERIALS. Each sem. 3+0, Cr. 3. Concepts of stress and strain; stress-strain relations; plane states of stress and strain at a point; elementary analysis of stress distributions and deformations; axial loading, torsion of circular shafts, shear force and bending moment diagrams, elementary theory of bending. Introduction to statically indeterminate problems. The continuous beam; conjugate beam method; introduction to the buckling of columns. Prerequisites: Mathematics 77 and GE 93.

CE 106. FLUID MECHANICS I. Each sem. 2+0, Cr. 2. An examination of the characteristics of fluid flow and the principles of fluid flow: the study of fluid statics; derivation of mass conservation, Bernoulli and linear momentum equations; application of basic equations and concepts to analysis of flow measuring devices; closed conduit and open channel flow, turbomachinery, flow about objects and other fluid phenomena. Prerequisite: GE 94.

CE 107. MATERIALS ENGINEERING. Sem. 2. 1+0, Cr. 1. A study of the relationship between the structural and the mechanical properties of engineering materials. The elementary concepts of yielding and fracture are presented along with Failure Theories. The influence of fatigue, impact, and creep loadings on the behavior of materials at both high and low temperature is studied. Prerequisites: CE 103 and concurrent registration in CE 110.

CE 109. STRUCTURAL ANALYSIS I. Sem. 2. 4+0, Cr. 4. Analytical and graphical methods for the determination of axial, flexural, shearing, and torsional stresses and their resulting deflections. Common structural forms of both determinate and indeterminate types such as bridge and roof trusses, cable structures, beams and frames will be treated. Influence line theory and energy methods will be introduced. Prerequisite: CE 103.

CE 110. CIVIL ENGINEERING LABORATORY I. Sem. 2. 0+3, Cr. 1. Experimental studies of the mechanical properties of engineering materials under different loadings and environmental conditions and the static and dynamic behavior of fluids. Prerequisites: CE 103, CE 106, and concurrent registration in GE 107.

CE 111. CIVIL ENGINEERING LABORATORY II. Sem. 2. 1+3, Cr. 2. The application of basic principles in the experimental study of: concrete proportioning; soil properties; water quality; and waste water characteristics. The use and interpretation of experimental results in engineering problems. Prerequisites: Concurrent enrollment in CE 164 and CE 121. Laboratory fee, $10.00.

CE 113. FLUID MECHANICS II. Sem. 1. 2+0, Cr. 2. Application of the principles of fluid mechanics to solution of engineering analysis and design problems. Topics include: model testing, advanced closed conduit and open channel hydraulics, a study of reservoirs, ground water flow, advanced flow about objects and other bodies of current interest. Prerequisites: CE 106 and GE 159.

CE 115. STRUCTURAL ANALYSIS II. Sem. 1. 2+0, Cr. 2. Introduction to stiffness concept in approaching stress-deflection relationships applied to beams and frames, trusses, and grid and plate structures. Moment distribution; effect of stability on stiffness; deflection theory for arches and suspension bridges. Prerequisites: GE 159 and CE 109.


CE 117. STRUCTURAL DESIGN II. Sem. 2. 3+0, Cr. 3. The design of reinforced concrete structures with emphasis on slabs and continuous frame members. The design of total structural steel systems as relates to bridges, mill buildings, and high rise buildings. Prerequisites: CE 115 and CE 116.

CE 121. SOIL AND FOUNDATION ENGINEERING. Sem. 3+0, Cr. 3. The study of physical, mechanical, and hydraulic properties of soil. Theoretical soil mechanics, including earth pressure, slope stability, pressure distribution and settlement, and flow through permeable media. Bearing capacity analysis of shallow and deep foundations. Field trips required. Prerequisites: CE 103 and CE 106.

CE 160. ENGINEER IN SOCIETY. Sem. 2. 2+0, Cr. 2. The discussion of selected topics involved in the interaction between the engineer and his sociological environment. Included will be topics from the fields of law, ethics, and economics: the application of these topics to engineering practice through case studies. Prerequisite: senior standing.

CE 163. TRANSPORTATION. Sem. 2. 3+0, Cr. 3. A survey of the application of engineering principles to the location, design, and construction of highway systems, railroads, and airports. Prerequisite: CE 121.

CE 164. ENVIRONMENTAL ENGINEERING I. Sem. 2. 3+0, Cr. 3. The general aspects of man and his environment and the effects of pollution on nature’s resources. Among topics considered are: water supply and waste water problems; solid waste disposal; and the study of air and water quality criteria. Field trips are required. Prerequisites: CE 106 and concurrent registration in CE 111.

CE 165. ENVIRONMENTAL ENGINEERING II. Sem. 1. 3+0, Cr. 3. The application of environmental pollution control principles to unit processes studies and design. Field trips are required. Prerequisite: CE 164.

CE 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 projects in the field of civil engineering will be selected by the student with the approval of the Civil Engineering faculty. Prerequisite: senior standing in Civil Engineering.
CE 198. CIVIL ENGINEERING PROJECT II. Sem. 2. 0+6, Cr. 2. A continuation of the project selected in CE 197.

THE DEPARTMENT OF ELECTRICAL ENGINEERING

EE 130. APPLIED ELECTRICAL ENGINEERING. Each sem. 3+0, Cr. 3. A course for the non-electrical engineering student. Emphasis is placed upon electronic electromechanical and electromagnetic devices, electrical instrumentation and control of industrial processes. Prerequisite: GE 98.

EE 131. ELECTROMAGNETIC FIELD THEORY. Sem. 1. 3+0, Cr. 3. A study of the fundamental laws of static and dynamic electric and magnetic fields. Maxwell's equations; applications to boundary value problems including transmission lines and traveling waves. Prerequisites: Mathematics 77 and GE 63.

EE 132. JUNIOR EE LABORATORY I. Sem. 1. 0+6, Cr. 2. This laboratory meets two sessions per week. Experiments are related to theory course work required of the third year electrical engineering student. Prerequisite: junior in good standing enrolled in the College of Engineering. Laboratory fee, $20.00.

EE 133. JUNIOR EE LABORATORY II. Sem. 2. 0+6, Cr. 2. A continuation of EE 132. Prerequisite: EE 132. Laboratory fee, $20.00.

EE 134. MATERIALS SCIENCE. Sem. 2. 3+0, Cr. 3. A study of the fundamental properties of materials. Topics include the thermal properties of solids; magnetic properties of materials; and the electric properties of metals, semiconductors and insulators. Prerequisite: EE 131.

EE 135. NETWORK ANALYSIS I. Sem. 1. 3+0, Cr. 3. A study of electrical networks, utilizing classical and operational techniques. Impulse response, determination of response and convolution of the principle of superposition. Fourier series, spectra, and Fourier Transforms; frequency domain analysis of networks; network topology, and matrix algebra. Prerequisite: GE 98.

EE 136. NETWORK ANALYSIS II. Sem. 2. 3+0, Cr. 3. A continuation of EE 135 with particular emphasis upon the analysis and synthesis of one port and two port networks. Multiport networks, filter design techniques, frequency response and loci of networks are investigated. Digital computer methods are stressed. Prerequisite: EE 135.

EE 140. ENGINEERING ELECTRONICS I. Sem. 1. 3+0, Cr. 3. The first of a three course sequence in the principles and applications of electronic devices. A study of semiconductor theory as it applies to diodes and transistors; the steady state switching characteristics of diodes and transistors; clipping, clamping, and comparator circuits; and transistor amplifiers and their biasing circuits. Prerequisite: GE 98.

EE 141. ENGINEERING ELECTRONICS II. Sem. 2. 3+0, Cr. 3. A continuation of EE 140. The analysis and design of amplifiers. Power and small signal amplifiers, multiple transistor circuits, integrated circuits, multivibrator and logic circuits, oscillators, field effect transistors and vacuum tube amplifiers. Prerequisite: EE 140.

EE 142. ENGINEERING ELECTRONICS III. Sem. 2. 3+0, Cr. 3. The third course in the electronic series. Special emphasis is placed on the synthesis of systems using electronic devices. Topics of interest include the frequency response of amplifiers, the operational amplifier and its applications, and active filter design, feedback in amplifiers, and switching characteristics of semiconductor devices. Prerequisite: EE 141.

EE 144. MICROWAVES. Sem. 1. 2+3, Cr. 3. An introduction to guided waves, microwave devices and systems, with a detailed study of waveguides, microwave circuit theory, and antennas. Special topics include application of ferrites, masers, and parametric devices. Laboratory experimentation emphasizes precise measuring technique and system performance. Prerequisite: EE 131. Laboratory fee, $10.00.

EE 148. LOGIC DESIGN. Sem. 2. 3+0, Cr. 3. A study is made of Boolean algebra, basic logic circuits. Truth tables and Karnaugh maps are utilized in the design of combinational logic networks. State diagrams are employed in the study and design of sequential logic networks. Prerequisite: EE 141. Laboratory fee, $10.00.

EE 151. ENERGY CONVERSION. Sem. 1. 3+3, Cr. 4. A study of electromagnetic devices with emphasis on the principles and operating characteristics of transformers and rotating electrical machines. Direct current machines; single phase and polyphase transformers, synchronous machines, inductive machines and fractional horsepower motors. Prerequisite: GE 98. Laboratory fee, $10.00.

EE 153. SYSTEM THEORY I. Sem. 1. 3+0, Cr. 3. A study of the techniques needed for the analysis of linear systems. Dynamic equations of linear lumped parameter systems; state variable formulation for continuous-time and discrete-time systems; time domain and frequency domain techniques; Random processes, power spectral density, and correlation functions. Prerequisite: EE 136.

EE 154. SYSTEM THEORY II. Sem. 2. 3+0, Cr. 3. A continuation of EE 153. Discrete-time systems; Random signals in linear systems; optional control techniques in linear and non-linear systems, and selected special topics. Prerequisite: EE 153.

EE 156. SERVOMECHANISM DESIGN. Sem. 2. 2+3, Cr. 3. The performance and compensation of feedback control systems is investigated. The identification problem and representation problem are solved using time-domain and frequency-domain methods. Electro-mechanical and electro-hydraulic components and systems are available in the laboratory. Each laboratory team investigates a special problem as part of its laboratory experience. Prerequisite: EE 153. Laboratory fee, $10.00.

EE 158. COMMUNICATION THEORY. Sem. 2. 3+0, Cr. 3. The effects of system bandwidth and noise on the transmission of information; amplitude modulation; frequency modulation; pulse modulation; sampling theorem; information measure; channel capacity; and the application of statistical methods. Prerequisite: EE 153.

THE DEPARTMENT OF MECHANICAL ENGINEERING

ME 105. EXPERIMENTAL STRESS ANALYSIS. Sem. 1. 3+0, Cr. 3. An introduction to experimental methods for measuring stresses and strains including; Brittle coatings, photoelasticity, electrical strain gages, Birefringent coatings, and Moiré grids. Theoretical and experimental analysis of stress distributions in machine and structural components subjected to various loadings. Prerequisites: Mathematics 78 and CE 103.

ME 171. THERMODYNAMICS II. Sem. 1. 3+0, Cr. 3. The study of the properties of 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.

ME 173. MECHANICAL MEASUREMENTS LABORATORY. Sem. 2. 1+3, Cr. 2. Investigations into typical industrial and laboratory primary transducers and read out equipment in the mechanical measurement areas. Dynamic as well as static measurements are emphasized. Prerequisite: GE 70. Laboratory fee, $10.00.

ME 174. MECHANICAL ENGINEERING LABORATORY. Sem. 1. 0+4, Cr. 1. A laboratory course in the prediction and verification of the performance of typical mechanical equipment in the areas of automatic control, power transmission, mechanical energy conversion, and heat transfer. Prerequisites: ME 171 and ME 173. Laboratory fee, $10.00.
ME 175. AIR CONDITIONING. Sem. 2. 3+0, Cr. 3. Basic calculations for capacity and selection of equipment for heating, ventilating, and air conditioning. Design and specifications for complete systems covering both human comfort and industrial process work. Prerequisite: ME 171.

ME 176. ENERGETICS. Sem. 1. 3+0, Cr. 3. A study of the principal characteristics of various mobile prime power sources such as: reciprocating and rotating spark ignition and compression ignition engines, gas turbines, rockets, fuel cells, etc. Analysis of the theoretical and actual thermodynamic cycles of each power source. Prerequisite: ME 171.

ME 177. HEAT TRANSFER. Sem. 1. 3+0, Cr. 3. The principles and practice of heat transfer by conduction, radiation, free and forced convection, vapor condensation, and boiling liquids. Unsteady state heat transfer, dimensional analysis, analytical and graphical solutions to engineering problems related to heat exchangers. Prerequisite: ME 171.

ME 178. GAS DYNAMICS. Sem. 2. 3+0, Cr. 3. A study of one and two dimensional gas dynamics including flow in a duct, normal and oblique shocks, Prandtl-Meyer expansion and irrotational flow. Prerequisite: ME 171.

ME 180. MECHANISM. Sem. 1. 2+3, Cr. 3. A study of the kinematics of mechanisms and machines by analytical and graphical media; linkages, cams, flexible connectors, gearing, gear trains. Prerequisites: Mathematics 77 and GE 93.

ME 181. AUTOMATIC CONTROL. Sem. 1. 3+0, Cr. 3. Basic fundamentals of instrumentation with particular application to process control. System dynamics and stability concepts using step, ramp and frequency response techniques. Prerequisite: Mathematics 78.

ME 182. VIBRATIONS. Sem. 2. 3+0, Cr. 3. Vibration analysis; isolation and determination of natural frequencies for various systems, practical aspects of vibration isolation and absorption. Critical speeds. Balancing. Prerequisites: Mathematics 78, GE 94, CE 103.

ME 183. MACHINE DESIGN. Sem. 1. 3+3, Cr. 4. The rational application of material developed in courses in Strength of Materials, Mechanism, and Mechanics of Machinery to the design of machine elements and engineering equipment such as fastenings and power screws, belt and chain drives, gearing, couplings, clutches, brakes, bearings, shafting, and mechanical frames. Prerequisites: ME 180 and CE 103.

ME 185. MACHINE DESIGN. Sem. 2. 3+3, Cr. 4. A continuation of ME 183, covering topics such as precision gearing, design of shafting for deflection and critical frequencies, bearings, etc. Two complete designs of machinery or equipment are required, with computations and scale layouts. Each student is to present a paper, based upon current mechanical engineering literature; in some instances, a presentation of the work being handled in GE 195 may be substituted. Prerequisite: ME 183.

ME 186. 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, machineability 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 16. Laboratory fee, $10.00.

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.

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. 0+6, Cr. 2. A continuation of ME 190.
College of Nursing
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.

The curriculum is developed to assist the student to:
1. Acquire and utilize a specific body of knowledge necessary to give safe, effective nursing care.
2. Understand behavior and its significance in health and illness.
3. Communicate effectively and utilize therapeutic inter-personal relationships.
4. Identify the needs of patients for nursing care and rehabilitation and take appropriate action to meet them.
5. Plan and direct nursing care given by others working with her and evaluate the effectiveness of the nursing care.
6. Understand and execute the nurse’s role in the promotion of health and prevention of disease in a well population.

DEGREE REQUIREMENTS OF THE COLLEGE OF NURSING

In order to realize its objectives, the College of Nursing holds the students to the following degree requirements:
A. A minimum of 55 credits in nursing. The specific requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<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
### SUGGESTED SCHEDULE

#### FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 43</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 51 or Sociology 53</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>Religion</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
</tr>
</tbody>
</table>

#### SECOND YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 110</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 131 or 203</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives</td>
<td>6</td>
</tr>
<tr>
<td>Religion</td>
<td>2</td>
</tr>
<tr>
<td>Speech 40</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits</td>
<td>17</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 128. These electives are to be selected from the offerings of the College of Arts and Sciences.* It is recommended that 6 electives be in the social sciences and 3 in the fine arts.

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*Six credits other than economics earned in the College of Business Administration may be counted toward a degree of Bachelor of Science in Nursing.
UNIVERSITY CALENDAR FOR 1970-1971

For the School of Law

1970

FALL SEMESTER

September 2, Wednesday. Preregistration and instruction begins.
September 5, Saturday. Registration.
October 24, Saturday. Homecoming Day.
November 2, Monday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in June or August, 1971.**
November 10, Tuesday. Honors Convocation.
November 21, Saturday. Thanksgiving recess begins.
November 30, Monday 8:00 A.M. Thanksgiving recess ends. Instruction resumes.
December 19, Saturday. Christmas recess begins. Instruction ends.

1971

January 4, Monday 8:00 A.M. Christmas recess ends. Review period begins.
January 6, Wednesday. Review period ends.
January 7, Thursday 8:00 A.M. Final examinations begin.
January 14, Thursday. Final examinations end.*

SPRING SEMESTER

January 20, Wednesday. Registration.
January 21, Thursday. Instruction begins.
March 26, Friday. Honors Convocation.
April 3, Saturday. Easter Recess begins.
April 14, Wednesday 8:00 A.M. Easter Recess ends. Instruction resumes.
April 30, Friday. LAW DAY, U.S.A.
May 1, Saturday. Last day to file application of candidacy for the Juris Doctor degree to be conferred in January, 1972.**
May 7, Friday. Instruction ends.
May 7, Friday. Spring Festival.
May 8, Saturday. Spring Festival.
May 10, Monday. Review period begins.
May 13, Thursday. Review period ends.
May 14, Friday 8:00 A.M. Final examinations begin.
May 21, Friday. Final examinations end.
May 30, Sunday. 97th 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, The Festival of the Ascension, and Memorial Day.

*Students completing degree requirements will be granted their degrees as of January 15, 1971.
**Applications will not be accepted after these dates except by approval of the appropriate Faculty or University Senate Standing Committee.
School of Law
THE SCHOOL OF LAW

Professor A. W. Meyer (Dean); Assistant Professor Swygert (Assistant Dean); Professors Bartelt, Gromley, Hiller, Jones, Stevenson, and Wechsler; Associate Professor Wilks; Assistant Professors Burns, Hess, and Thomforde

GENERAL INFORMATION

HISTORY—The School of Law was founded in 1879 as the Northern Indiana Law School. In 1905 it became a part of Valparaiso College, now Valparaiso University. The School moved into quarters in DeMotte Hall in 1926 and into the new law building in September 1963. It was approved by the American Bar Association in 1929, and since that time it has met continuously the requirements established by that Association's Council on Legal Education and Admission to the Bar. In 1930 it was admitted to membership in the Association of American Law Schools. The degree of Juris Doctor which is granted by the School is approved by the Board of Regents of the University of the State of New York, Valparaiso University, of which the School is an integral part, holds membership in the North Central Association of Colleges and Secondary Schools.

LOCATION AND FACILITIES—The School of Law is housed in its own building completed for occupancy during the late summer of 1963 and located on Valparaiso University's beautiful new campus. This modern law plant including library, classrooms, faculty and student offices, and lounges, was made possible by the gifts of loyal alumni, friends of Valparaiso University, many congregations of The Lutheran Church-Missouri Synod, and especially the generosity of the late Mr. Adolph H. Wesemann and his wife Janette, of LaGrange, Illinois, in whose honor the building is named. This new building is evidence of the determined policy of the Valparaiso University Administration to develop and maintain as an integral part of its educational complex a quality school for the training in law of those who desire it.

Students in the School of Law find it to their advantage that the School is located in a county seat which has three trial courts in session throughout most of the year. In addition, there are numerous trial courts in adjacent Lake County, a heavily industrialized area. The Federal District Court holds its sessions in nearby Hammond, and a United States Court of Appeals sits throughout the year in Chicago, about fifty miles away.

LAW LIBRARY—The law library, which contains approximately 55,000 volumes and government documents, meets the requirements of all accrediting associations. It contains the official and unofficial reports of the Supreme Court of the United States and the official reports (of appellate courts) of all states up to the establishment of the National Reporter System, which now provides complete coverage of all federal and state 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, 288 legal periodicals, most in complete bound sets, the standard law encyclopedias, and a collection of state trials, legal histories, and treatises on law, jurisprudence, and related subjects.

OBJECTIVES

The term law is a comprehensive one, including, as it does, three relatively distinct elements: the great body of judicial decisions from England and the United States, more commonly called Anglo-American Common Law; constitutions and statutory enactments of nations 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 in the fullest cultural life of the campus. Like other students in the University, law students are encouraged to participate in many and varied religious activities of the University. In addition, a constant effort is made by the School to make Christianity relevant to the study and practice of the law. To focus this effort, the School requires each third-year student to take the course in jurisprudence, which explores both past and present legal philosophy, as well as the nexus between Christianity and the law.

National—The School of Law is a national school in that it does not confine its interest to the laws of any one state. It clearly recognizes that the concept of justice belongs to all courts and all states and all people. It also recognizes, however, that the law of various states may differ because of economic or geographic considerations; it therefore encourages its students to keep abreast of local developments in the law by providing easy access to statutes, court reports, and treatises which articulate these differences.

Small—The School of Law is a relatively small school. At present, there is a ratio of one instructor to every fourteen students. Classes are small, making maximum participation by each student possible. Easy access to faculty members for personal consultation and advice is a Valparaiso tradition. As the School continues to grow, it plans to maintain this distinctive attribute by adding additional instructors rather than by establishing large classes.

A thorough grounding in substantive law is the basis of the curriculum. The student must, however, also be thoroughly familiar with the framework in which the substantive law has been developed and is used in the work of the courts; for that reason, adjectival courses are integrated with substantive courses. The School of Law recognizes as a further objective the teaching of the basic skills which are the tools of every good practicing lawyer and which must be understood even by students not planning to enter private practice. Training in these skills is therefore considered an integral part of the curriculum, both as course-study and as required extra-curricular activity.

COUNSELING PROGRAM

All first-year students are assigned, for counseling purposes, to members of the faculty by the Dean. Each student will meet with his faculty counselor at periodic intervals during his first year.

REQUIRE CURRICULUM

The completion of all courses listed in the block schedule is required for graduation. In the fall semester of the second year students may choose Appellate Advocacy or Law of the Poor, or, if invited, Law Review. In the spring semester they may elect Legal Process or American Legal History. Third-year students must complete a minimum of 12 hours of elective courses in each semester in addition to Jurisprudence in the fall semester, Legal Profession in the spring semester, and at least one seminar which extends through the entire year.
In the spring semester a course in Trial Advocacy is required in order to give the student some skill in the preparation and trial of a case which has the complicating and sometimes bewildering overtones created by the participation of persons normally not present or involved at appellate levels—such as clients, witnesses, parties, and jurors.

**LAW REVIEW**

The *Valparaiso University Law Review* is published semi-annually by the students of the School of Law. The Review affords superior students the opportunity to develop analytical, research, and writing skills and, thus, is an invaluable adjunct to legal education. The Review contains articles and book reviews by distinguished law teachers and practicing lawyers, and notes by members of the editorial staff. It is edited in its entirety by the student Board of Editors. It is considered an honor to be appointed to the Review staff.

**LEGAL AID**

The recognized obligation of the bench and the bar is to provide equal justice under law to all persons in our society, rich and poor. The law school, training the judges and lawyers of the future, is the logical starting point in meeting that obligation. Two courses are offered which enable students to gain insight into the particular legal problems of the poor, and to serve justice and the community.

The second-year classroom course in Law of the Poor presents students with a theoretical framework of the law pertinent to poor people. Students also engage in field work, observing judicial and administrative proceedings, and assisting lawyers and third-year students in the preparation of cases.

The third-year course, Clinical Program in Legal Problems of the Poor, allows students to gain practical work experience while dealing with actual legal problems of indigents and agencies working with the poor. Participating students represent clients in criminal, civil, and administrative proceedings. Indiana Supreme Court Rules allow these students to represent their clients in court under the supervision of a licensed attorney.

**LECTURE PROGRAM**

The School 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.

A number of other awards are available in the School of Law for outstanding scholarship and achievement. Among those being currently offered are the following: The Student Bar Association Award; the Nathan Burkan Memorial Prize; the Lawyers Cooperative Publishing Company and Bancroft-Whitney Company award; the West Publishing Company award; the Prentice-Hall Taxation Award; the U. S. Law Week Award; the Lutheran Laymen’s League Award. Awards are also presented to the top oral advocates in the moot court competition by the West Publishing Company and the Bobbs-Merrill Company.

**FINANCIAL AID**

A student may apply for financial aid by executing page four of the form used in applying for admission. Three categories of financial assistance are available:

**Scholarships:** An applicant is considered academically qualified for a School of Law scholarship when his overall pre-law academic average is approximately a “B” and when his Law School Admission Test score clearly indicates that he should be able to attain such an average in the School of Law. Other qualifications as indicated by his application and credentials may also be taken into consideration.

**Grants:** Limited funds are available in the form of Grants-in-Aid for applicants in critical need of financial assistance who do not qualify for a scholarship but who, in the judgment of the committee, merit such assistance.

**Loans:** Applicants seeking loans should file their applications as early as possible. Loan applicants must file the Parents’ Confidential Statement with The College Scholarship Service. If the applicant is self-supporting and is not claimed as a dependent for tax purposes he should request a Students’ Confidential Statement form. Either form may be obtained by writing to The College Scholarship Service, Box 176, Princeton, New Jersey.

**Placement**

The School of Law actively assists graduating seniors seeking positions in the profession. Each year the School of Law, in conjunction with the Student Bar Association, publishes a brochure which includes biographical sketches of the graduating seniors. These brochures are sent to alumni of the school, other lawyers, and business firms who might be interested in engaging the services of young attorneys. Close liaison is maintained with the Placement Service of the University.

**Pre-Legal Education**

No particular course of study is prescribed for students planning to enter schools of law. The attention of the pre-law student is, however, called to the recommendation of the Committee on Pre-Legal Education of the Association of American Law Schools that pre-law education should be concerned with the development in pre-law students of basic skills and insights involving education for:

- **A.** Comprehension and expression in words;
- **B.** Critical understanding of the human institutions and values with which the law deals; and
- **C.** Creative power in thinking.

The law schools seek in their entering students ability to understand, ability to think for themselves, and ability to express their thoughts clearly and forcefully.
ADMISSION

TIME OF ENTRANCE—No person will be admitted to the School 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, early filing of applications is recommended.

DEPOSIT REQUIREMENT—The School of Law requires a tuition deposit of $50.00. Applicants admitted prior to April 15 should remit this deposit by May 1; those admitted after April 15 should remit within 15 days of the date of the certificate of admission.

This deposit is not refundable except for extraordinary reasons such as illness or military service, but will be credited to the applicant's tuition fee when he registers.

Failure to remit the deposit within the time specified will result in cancellation of the certificate of admission. In such case an applicant who still desires to enroll must reapply for admission.

Applications for admission to the School of Law will be considered only from those persons who have been graduated with a baccalaureate degree or higher degree from Valparaiso University or another college or university accredited by one of the regional associations of colleges.

In addition, applicants are required to take the Law School Admission Test administered by the Educational Testing Service, Princeton, New Jersey. The test may be taken at various testing centers throughout the country in February, April, July, and November. It is administered on the campus of Valparaiso University in February. Application to take the test must reach Educational Testing Service three weeks before the date of the examination and must be accompanied by a fee of $13.50. Applicants should indicate on the test application form that their scores are to be reported to Valparaiso University School of Law. Application forms and information about the test may be obtained by writing to: Law School Admission Test, Educational Testing Service, Box 944, Princeton, New Jersey 08540.

TRANSFER STUDENTS—A student transferring to Valparaiso from another law school may receive credit ordinarily not exceeding one year, provided: (1) that the law school from which he is transferring is a member of the Association of American Law Schools or is on the approved list of the American Bar Association; (2) that the student transferring meets the scholastic average required for graduation by that law school and all other conditions and requirements for continued attendance at that school; (3) that his scholastic standing meets the requirements of Valparaiso University for advanced standing; (4) that the work which he has completed is similar in character to that which is given at Valparaiso University; and (5) that he has met the entrance requirements of the School of Law for beginning law students. The right is reserved to withhold such credit, wholly or in part. Credit which has been granted provisionally may be withdrawn because of unsatisfactory work at this University. No advanced standing is given for courses completed with a grade of D.

Students who enter with advanced standing because of credits transferred from another school must earn at Valparaiso University as many quality points as semester credits in order to be eligible for a degree. In the computation of a student's standing grades of F earned at Valparaiso University are included.

All candidates for admission to the School of Law, whether as first-year students or as candidates for advanced standing, must, in addition, meet any and all requirements imposed by the American Bar Association and the Association of American Law Schools for admission to an approved school of law. All transfer students must take the Law School Admission Test if they have not already done so. Applicants who have previously taken the Test should request that their scores be sent to the Dean, School of Law, Valparaiso University.

SPECIAL STUDENTS—In extraordinary cases, applicants who do not hold a baccalaureate degree, may be admitted as special students provided: (A) They are at least 23 years of age and (B) There is evidence that their experience and training have equipped them to engage successfully in the study of law despite the lack of required college credit.

REGISTRATION

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

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 sixth week of a semester.

Students who wish to drop courses after the first week of the semester should read the regulations regarding grades of W and F. Application for changes in enrollment must be made by the student on proper forms and filed at the office of the Registrar.
ADMISSION TO COURSES AS AN AUDITOR—A classified student may register in a course as an auditor only with the permission of his adviser and the instructor concerned. An auditor may not be admitted to the final examination and is never granted credit for the course audited. No additional fee is charged when the student pays full tuition.

SUMMER SCHOOL COURSES—Students enrolled in the School of Law may not transfer credits earned at other law schools during summer sessions without the prior consent of the Dean of the School of Law.

WITHDRAWAL FROM THE UNIVERSITY—A student who wishes to withdraw from the University for the remainder of a semester should apply to the Business Office for a permit to withdraw. Upon return of the permit properly signed, the Registrar will authorize the return of such fees as are refundable. In every case the parent or guardian is notified of the withdrawal by the Vice-President for Student Affairs.

If, during the course of a semester, a student is drafted for service in the armed forces, he will receive a full refund of his tuition and fees. A student living in University housing will receive a pro-rated refund of board and room.

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

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

COURSE LOAD

COURSE LOAD—For first-year and second-year students the block schedule constitutes the course load. The course load for third-year students is the block schedule applicable to them and a minimum of 12 credit hours of elective courses each semester. Third-year students may carry a maximum of 16 credit hours 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.

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.

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.

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

Any student withdrawing from a subject without first securing the official permission of his adviser will receive a grade of F in that subject for the semester.

Only in exceptional cases, such as prolonged or serious illness, will the Educational Processes Policy Committee permit a student to withdraw from a course without a grade of F after the end of the sixth week of the semester.

S. Satisfactory; meets course objectives. Hours with grade of S count toward graduation but are not counted in computing the student's standing.

All regular work of the course is required of students electing the S/U registration. It is assumed that this work should be of C, or better, quality to warrant the grade of S.

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

Grades of S and U are used in courses which are so designated in the course descriptions contained in the University Bulletin. (See page 104 for further use.) They may be used in other courses only in exceptional cases when approved by the Dean of the respective college and the Vice-President for Academic Affairs.

DEFINITION OF THE STANDING OF A STUDENT—A student's standing is determined by the ratio of his total number of quality points to his total number of credits in all his work at Valparaiso University. Thus, a student
who makes an average mark of C throughout a course of 90 semester hours will have 90 quality points, 90 credits, and a standing of one (1.0). An average mark of B will give the student 180 quality points, 90 credits, and a standing of two (2.0). When a semester's work is to be considered, "standing" is understood to be the ratio of the number of quality points gained to the number of credits scheduled.

CLASS HONORS IN SCHOLARSHIP
A student who achieves a standing of 2.5 in any semester will be awarded class honors, provided that he has received no grades of I or U at the official end of the semester concerned, and that he was registered for at least 12 hours of work for the semester.

First, second, and third year students eligible for honors in scholarship are given special recognition at honors convocations. Graduating senior honors are announced at Commencement and are based on the work of the last two semesters.

CLASSIFICATION
Classification of Students—A student in the School of Law shall have completed 30 hours to be classified as a second-year student, and 60 hours to be classified as a third-year student.

Unclassified Students—Unclassified students are those students who do 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.

Classification of Courses—The courses offered by the School of Law are classified as (a) First-Year Courses, numbered 100-149; (b) Second-Year Courses, numbered 150-199; (c) Third-Year Courses, numbered 200-220; and (d) Third-Year Electives, numbered 221-299.

APPROVAL OF SCHEDULES
All students must have their programs of study approved by the Dean of the School of Law at the beginning of each semester.

SCHOLASTIC REQUIREMENTS
In the computation of a student's standing, grades of D and F are included. For students who have completed the work of the second year (or beyond) standing refers to all law work undertaken as well as to all courses undertaken in the required curriculum (page 279.)

A student in the School of Law will be denied permission to continue study in the School of Law if his cumulative grade-point average falls below the minimum cumulative grade-point average indicated in the following table:

<table>
<thead>
<tr>
<th>NUMBER OF CREDIT HOURS PREVIOUSLY UNDERTAKEN</th>
<th>DENIED PERMISSION TO CONTINUE IF GRADE-POINT AVERAGE BELOW:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-16</td>
<td>.50</td>
</tr>
<tr>
<td>17-32</td>
<td>.83</td>
</tr>
<tr>
<td>33-46</td>
<td>.95</td>
</tr>
<tr>
<td>over 46</td>
<td>1.00</td>
</tr>
</tbody>
</table>

In determining the number of hours previously undertaken by a transfer student, the hours for which such student received advanced standing are added to the hours undertaken at Valparaiso University.

Any student whose grade-point average falls below 1.00 is considered to be on scholastic probation.

Students on scholastic probation are ineligible to participate in the activities specified in the Student Handbook, and are also ineligible to hold offices in law fraternities and in the Student Bar Association.

At the close of the fall semester of each year, the Dean of the School of Law may issue a warning to any student whose standing at that time indicates unsatisfactory work.

GRADUATION
Degree—The University offers a three-year (six-semester) curriculum leading to the degree of Juris Doctor (J.D.). The degree is conferred upon recommendation of the Faculty of the School of Law. All work toward a degree must be completed to the satisfaction of the Faculty. In all cases, the student is responsible for meeting the requirements for graduation.

A student who returns to the School of Law after an absence of three or more years may no longer be a candidate for a degree on the basis of the catalogue under which he first entered the University, but must fulfill for graduation all the requirements and provisions of the catalogue of the year in which he re-enters the University.

Course, Credit, and Quality Point Requirements—A candidate for graduation must complete the required and elective curriculum outlined above (page 280) with passing grades in a minimum of 85 credit hours. In addition he must have a standing of one (1.0) in all law work undertaken at Valparaiso University. In the computation of this standing grades of D and F earned at Valparaiso University are included. Credits earned at another law school and for which advanced standing has been given are treated as C grades in the computation.

Residence Requirements—To be eligible for graduation from the School of Law a student must have been enrolled as a full-time student in an accredited law school for six semesters. For the purpose of meeting the
APPLICATION FOR DEGREE—A student who wishes to receive his degree at the end of the Spring Semester 1970-1971 must make formal application for his degree on a form provided for this purpose by the registrar's office not later than November 2, 1970. Applications will not be accepted after this date except by approval of the appropriate Faculty or University Senate Standing Committee.

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

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

INDIVIDUAL HONORS AT GRADUATION

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

2. Graduation "With Distinction." A student who has been in attendance at least three years and who has maintained a standing of 2.4 in his work at Valparaiso University will be graduated With Distinction. A student who has been in attendance for only two years must maintain a standing of 2.6 to be eligible for this honor.

REGISTRATION WITH BAR AUTHORITIES

The rules of many states require the filing of certain forms with state officials before the study of law is begun. Any student desirous of pursuing a career in law should obtain instructions from the proper authorities in the state in which he intends to practice. This is usually the board of bar examiners or the clerk of the highest court. Failure to comply with such a rule may delay admission to the bar for a substantial period. The law library has on file a compendium of the regulations on bar admissions for all states.

REQUIREMENTS WITH REGARD TO STUDENTS WHO WORK

The study of law is an exacting one and demands a very considerable portion of the students' time. The School of Law therefore requires each student to register with the Dean the number of hours per week that he works.

RESERVATION OF RIGHT TO AMEND RULES AND REGULATIONS

Every student upon admission to Valparaiso University and any of its departments, colleges, or schools, agrees to abide by their respective rules and regulations, and any amendments, new rules, or repeals of rules adopted during such student's period of attendance.
COMMERCIAL TRANSACTIONS. 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. (Formerly Commercial Transactions II.) COMMERCIAL TRANSACTIONS AND CONSUMER PROTECTION. Sem. 1. Cr. 3. 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.

165. BUSINESS ASSOCIATIONS. Sem. 2. Cr. 4. The principal forms of all the business organizations are analyzed and studied.

166. EVIDENCE. Sem. 1. Cr. 3. Rules for exclusion of evidence; functions of court and jury; burden of proof; circumstantial evidence; hearsay; examination of witnesses, with demonstrations thereof.

167. TAXATION. Sem. 2. Cr. 3. A study of the basic principles of the federal income taxation of individuals.

169. TRUSTS AND ESTATES I. Sem. 1. Cr. 3. A study of the essential tools of lifetime and testamentary planning of estates: (1) intestate succession; (2) wills and testamentary powers; (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 moris.

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 of courts, legislatures, executive, administrative, and 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. Grades of S and U are given for this course.

180. LAW REVIEW. Sem. 2. Cr. 1. Participation in Law Review activities, including the writing, editing and publication of legal notes and articles. Admission by invitation only. Grades of S and U are given for this course. For explanation of grades, see MARKING SYSTEM AND QUALITY POINTS, page 287.

184. ** Formerly Legal Aid. 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. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 287. Prerequisite to Law 290, Clinical Program in Legal Problems of the Poor.

**Second-year students must elect one course from these four. Law Review may be elected only by invitation.

**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 in practice; the principal basis. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 287.


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.

221. TRIAL ADVOCACY. Sem. 1. Cr. 3. A training course designed to develop through student participation the desired skills of a trial lawyer: pretrial preparation; proving facts in court; closing arguments; attention to the tactical and ethical aspects involved. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 287.

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 organization; legislative control; corporate agencies, expressed and implied powers; revenue and indebtedness; administration 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.

**Second-year students must elect one course from these four. Legal Writing may be elected only by invitation.
237. **Securities Regulation.** Cr. 3. Federal and state regulation of issuance and subsequent sales of corporate securities.

240. **Insurance.** Sem. 2. Cr. 3. A study of insurable interest, concealment, representation, warranty, cause of invalidity, increase of hazard, the peril insured against, the amount of recovery, subrogation, conditions applicable after loss, waiver and estoppel, assignment of policies and rights of beneficiaries.

256. **Federal Estate and Gift Taxation.** Cr. 3. 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.

271-272. **Law Review.** Sem. 1. Cr. 1, Sem. 2. Cr. 1. Participation in Law Review activities, including the writing, editing, and publication of legal notes and articles. Admission by invitation only. (Note: This course may be offered in satisfaction of seminar requirement.) Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 287.

273. **Labor Law.** Cr. 3. Organization, including the right to organize; protection against interference; discrimination and employer domination; selection of representatives. Collective bargaining, including the requirement of bargaining; provisions and enforcement of collective agreements. Strikes, picketing, and boycotts. Intra-union and inter-union relationships.

278. **Debtors' Protection and Creditors' Rights.** Cr. 3. The legal position of the creditor, secured and unsecured, and his legal and equitable remedies. Fraudulent conveyances, general assignments, creditors' agreements, receiverships, and bankruptcy.

285. **Economic Regulation.** Cr. 3. A study of the statutes and legal theories involved in the preservation of competition. Monopoly; exclusive dealing; resale price maintenance; mergers; stock acquisitions.

286. **Land Acquisition and Use.** Cr. 3. A study of the legal concepts and institutions relating to the marketing of land. The principal emphasis will be upon control of land use and development through legislation and private agreement; the marketing and financing of real estate; risks of title defects and methods of title assurance.

287. **Criminal Procedure.** Cr. 3. Covers an in-depth study of the nature of due process, and within this area takes into consideration arrest, searches and seizures; electronic eavesdropping; the right to counsel; confessions; entrapment; news media; disclosure and multiple punishment. Rights of juveniles and post-conviction proceedings are also considered.

288-289. **Seminar.** Sem. 1. Cr. 1, Sem. 2. Cr. 1. The seminar requirement is designed to afford third-year students an opportunity to build on the knowledge they have gained during their first two years of law study, by permitting them to make in-depth studies in specialized subjects. Since a substantial investigation paper is required in all seminars, students also gain experience in advanced research and writing. The seminar runs throughout the year, thus permitting adequate time for critiques and redrafts of the papers. In past years seminars have been offered in Securities Regulation, Church and State, Civil and Political Rights, Social Legislation, Commercial Arbitration, Commercial Law, Business Problems, Federal Antitrust Laws, and Natural Resources. These seminars will be supplemented from time to time as student interest demands.

290. **Clinical Program in Legal Problems of the Poor.** Cr. 3. Clinical course designed to give students practical work experience while dealing with the legal problems of the poor. Involves students in both civil and criminal litigation, and in the economic and social problems which underlie such litigation. Grades of S and U are given for this course. For explanation of grades see MARKING SYSTEM AND QUALITY POINTS, page 287. Prerequisite: Law 184.
## Statistics

### Recapitulation

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#### September 1969 - June 1970

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#### Gross Total

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### Evening Program

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### School of Law

**As of April 15, 1970**

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### RECAPITULATION

**June 1969 - June 1970**

*(As of April 15, 1970)*

#### UNDERGRADUATE PROGRAM

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#### 1969-1970 SCHOOL YEAR

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### GEOGRAPHICAL DISTRIBUTION OF STUDENTS

**September 1969 - June 1970 (Campus Only)**

**June 1969 - June 1970 (All Categories)**

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*Campus
**All categories

### GENERAL INDEX

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MEMORANDUM

FORMS OF BEQUEST

BECAUSE of the constantly increasing tendency on the part of our friends to provide for the growing needs of the University by bequests and the many inquiries received each year as to the proper wording thereof, there are given below forms for the convenience of those who plan to remember Valparaiso in their wills.

(GENERAL)

I give and bequeath to The Lutheran University Association, a corporation existing under the laws of the State of Indiana, and located in the City of Valparaiso, in said State, ___________________________ dollars, to be used at the discretion of the Corporation of said Association.

(SPECIFIC)

I give and bequeath to The Lutheran University Association, a corporation existing under the laws of the State of Indiana, and located in the City of Valparaiso, in said State, ___________________________ dollars, and direct that the income therefrom shall be used for the purposes following, that is to say:

(Here specify in detail the purposes such as: Faculty salaries, equipment and facilities, etc.)

As in some states a bequest for charitable purposes is void unless the will is executed at least a certain length of time (varying in different states) before the death of the testator, and is attested by two or more credible and at the same time disinterested witnesses, it is advisable to ascertain the requirements of the law in the state in which the testator resides, and to be careful that such requirements are complied with.
...a growing and maturing private University of academic excellence, operating within the Lutheran tradition, whose purpose is the development of an effective Christian personality that will leave its mark throughout society.