BULLETIN OF VALPARAISO UNIVERSITY

ANNOUNCEMENT OF COURSES 1935-1936

COLLEGE OF LIBERAL ARTS
(Founded 1859)

COLLEGE OF ENGINEERING
(Founded 1917)

COLLEGE OF PHARMACY
(Founded 1892)

SCHOOL OF LAW
(Founded 1879)

●

CATALOG
1934-1935

Valparaiso, Ind.

BULLETIN OF

Valparaiso University

VOLUME IX JUNE 17, 1935 NUMBER 1

Announcement of Courses - 1935-1936

CATALOG

FOR THE

SEVENTY-SECOND ACADEMIC YEAR

1934-1935

Published Weekly by the Valparaiso University Association

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CALENDAR FOR 1935-1936

July to December, 1935

JULY

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..
..	..	..	..	..	..	..

AUGUST

S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
..	..	..	..	..	..	..

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	..	..	..	..	..
..	..	..	..	..	..	..

OCTOBER

S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	..
..	..	..	..	..	..	..

NOVEMBER

S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
..	..	..	..	..	..	..

DECEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..
..	..	..	..	..	..	..

January to June, 1936

JANUARY

S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	..
..	..	..	..	..	..	..

FEBRUARY

S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
..	..	..	..	..	..	..

MARCH

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..
..	..	..	..	..	..	..

APRIL

S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	..	..
..	..	..	..	..	..	..

MAY

S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

JUNE

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	..	..	..	..
..	..	..	..	..	..	..

University Calendar

College Year of 1935-1936

1935

First Summer Term

June 17, Monday. Registration.
June 18, Tuesday. Classes begin.
July 4, Thursday. Independence Day: a holiday.
July 19, 20, Friday, Saturday. Final Examinations.

Second Summer Term

July 22, Monday. Registration.
July 23, Tuesday. Classes begin.
August 23, 24, Friday, Saturday. Final Examinations.

First Semester

September 13, Friday, 4:00 P. M. Meeting of the Faculty.
September 16-18, Monday-Wednesday. Freshman Days.
September 18, Wednesday. Registration of Upperclassmen.
September 19, Thursday, 8:00 A. M. Instruction begins.
September 28, Saturday, 12:00 Noon. Registration for the first semester closes.
October 9, Wednesday. Honor Convocation.
October 19, Saturday. Homecoming.
November 21, Thursday, 5:00 P. M. Mid-semester reports due.
November 27, Wednesday, 5:00 P. M. Thanksgiving recess begins.
December 2, Monday, 8:00 A. M. Instruction resumed.
December 20, Friday, 5:00 P. M. Christmas recess begins.

1936

January 6, Monday, 8:00 A. M. Instruction resumed.
January 25, Saturday, 8:00 A. M. First semester final examinations begin.
February 1, Saturday, 5:00 P. M. First semester final examinations end.

Second Semester

February 3, Monday, 8:00 A. M. Registration for all students.
February 4, Tuesday, 8:00 A. M. Instruction begins.
February 15, Saturday, 12:00 Noon. Registration for the second semester closes.
April 4, Saturday, 12:00 Noon. Mid-semester reports due.
April 8, Wednesday, 12:00 Noon. Easter recess begins.
April 15, Wednesday, 8:00 A. M. Instruction resumed.
May 23, Saturday. Annual Field Day.
May 30, Saturday. Memorial Day: a holiday.
June 6, Saturday, 8:00 A. M. Second semester final examinations begin.
June 13, Saturday, 12:00 Noon. Second semester final examinations end.
June 14, Sunday, 10:30 A. M. Baccalaureate Service.
June 14, Sunday, 3:00 P. M. Sixty-second Annual Commencement.

Recognition by Accrediting Agencies

Valparaiso University holds membership in the following accrediting associations:

The North Central Association of Colleges and Secondary Schools.

The Association of American Law Schools.

The American Association of Colleges of Pharmacy.

Valparaiso University is approved by:

The Indiana State Board of Education as a class "A" college and university for teacher training.

The American Bar Association.

The Board of Regents of the University of the State of New York (The College of Liberal Arts).

The Committee on Admissions from Higher Institutions of the University of Illinois as class "A" in all departments of the College of Liberal Arts.

The Council on Medical Education and Hospitals of the American Medical Association for Pre-Medical Education.

PART I

ORGANIZATION, ADMINISTRATION, INSTRUCTIONAL STAFF

Board of Directors*

WILLIAM C. DICKMEYER, President
WILLIAM F. BOEGER, Vice-President
PAUL F. MILLER, Secretary
GEORGE H. LETZ, Treasurer

Term to Expire 1935

WILLIAM F. BOEGER	Chicago, Illinois
HARRY A. EBERLINE	Detroit, Michigan
HENRY L. ULBRICH	Detroit, Michigan
GEORGE H. LETZ	Crown Point, Indiana
LOUIS J. SIECK	St. Louis, Missouri
WILLIAM H. KROEGER	Akron, Ohio

Term to Expire 1936

G. CHRISTIAN BARTH	Cincinnati, Ohio
WILLIAM C. DICKMEYER	Fort Wayne, Indiana
ERNEST J. GALLMEYER	Fort Wayne, Indiana
PAUL F. MILLER	Fort Wayne, Indiana
HENRY F. MOELLERING	Fort Wayne, Indiana
EDWARD W. JAEGER	Chicago, Illinois

Term to Expire 1937

HENRY A. DAHLEN	South Orange, New Jersey
O. A. GEISEMAN	Oak Park, Illinois
WALTER A. MAIER	St. Louis, Missouri
LOUIS NUECHTERLEIN	St. Joseph, Michigan
FRED WEHRENBERG	Fort Wayne, Indiana
JOHN A. SAUERMAN	Chicago, Illinois

*1934-1935.

Standing Committees of the Board**

EXECUTIVE COMMITTEE

WILLIAM C. DICKMEYER (President), Chairman
PAUL F. MILLER
FRED WEHRENBERG
E. J. GALLMEYER
G. H. LETZ

COMMITTEE ON INSTRUCTION

WILLIAM F. BOERGER, Chairman
G. C. BARTH

COMMITTEE ON FINANCE AND INVESTMENT

JOHN A. SAUERMAN, Chairman
GEORGE H. LETZ

COMMITTEE ON BUILDINGS AND GROUNDS

GEORGE H. LETZ, Chairman
FRED WEHRENBERG

COMMITTEE ON AUDIT

EDWARD JAEGER, Chairman
WILLIAM F. BOEGER

COMMITTEE ON BUDGET

WILLIAM C. DICKMEYER, Chairman
JOHN A. SAUERMAN
GEORGE H. LETZ
WILLIAM F. BOEGER
EDWARD JAEGER

**The President of the Board is a member of all standing committees. The President of the University is a member ex-officio of all standing committees.

Officers of Administration

THE REV. OSCAR C. KREINHEDER, D.D.---*President*
THE REV. WILLIAM H. T. DAU, D.D.---*President Emeritus*
FREDERICK W. KROENCKE, Ph.D.---
---*Dean of the University and of the College of Liberal Arts*
FREDERICK V. LOFGREN, Ph.D.---*Dean of the College of Pharmacy*
HOWARD WILSON MOODY, Ph.D.---*Dean of the College of Engineering*
JOHN W. MORLAND, A.M., J.D.---*Dean of the School of Law*
HENRY H. KUMNICK, A.B., LL.B.---*Dean of Students*
ALBERT F. SCRIBNER, A.B.---*University Registrar-Business Manager*
KATHERINE ERTZ BOWDEN, B.S.---*University Librarian*
GERALD H. STONER, B.S., M.D.---*University Physician*
CATHARINE CORBOY---*Alumni Secretary*

Lutheran University Association

JOHN C. BAUR
Executive Secretary

THEODORE F. ANDRES
Membership Secretary

KARL H. HENRICHS, M.A.
Endowment Secretary

Administrative and Faculty Committees*

(1934-1935)

Admissions and Degrees:
Associate Professor Miller, Chairman; Deans Lofgren, Moody, and Morland; Professor Elliott; Registrar Scribner, Secretary.

Athletics:
Professor Schwiebert, Chairman; Associate Professor Harwood; Assistant Professor Skinner; and Dean Moody, Secretary.

Library:
Associate Professor Bauer, Chairman; Professor Hartung; Assistant Professor Lindberg; the University Librarian, Katherine Bowden.

Scholarship:
Associate Professor Thrun, Chairman; Associate Professors Meyer and Thomas; Assistant Professor Lauritzen; Registrar Scribner, Secretary.

Student Aid:
President O. C. Kreinheder, Chairman; Executive Secretary Baur; Dean of Students Kumnick; Mr. Henrichs; Registrar Scribner, Secretary.

*The President and Dean of the University are ex-officio members of Administrative and Faculty Committees.

The Teaching Staff

(1934-1935)

Professors

Virgil Edwin Berry, LL.B., *Professor of Law.*

Indiana University 1902, 1906-1909, LL.B., 1909; Winona College (Indiana), Summer (six weeks), 1916; Valparaiso University, Summer (six weeks), 1918; Assistant Professor of Law, Valparaiso University, 1919-1931; Professor of Law, 1931—

Edmund Walter Chaffee, Mus.D., *Professor of Music.*

Stern's Conservatory (Berlin), student, 1887-1890; ibid., Assistant in Music, 1889-1890; piano under Mathews, Liebling and Sherwood; voice under Root, Burrit and Gottschalk; organ under Gleason and Middleschulte; composition under Koelling; harmony and counterpoint under Gleason; Valparaiso University, Mus.D., hon., 1920; Professor of Music, Valparaiso University, 1894—

Paul Allerton Cushman, Sc.D., *Professor of Mechanical Engineering.*

Massachusetts Institute of Technology, 1907-1911, S.B., 1911; Trinity College, part time, 1911-1913; Columbia University, part-time, 1915-1916; Massachusetts Institute of Technology, 1925-1927, S.M., 1927; University of Michigan, 1931-1932, Summer (seven weeks), 1932, Sc.D., 1932; Professor of Mechanical Engineering, Valparaiso University, 1933—

Frank Roy Elliott, Ph.D., *Professor of Zoology.*

Earlham College (Richmond, Ind.), 1907-1911, B.S., 1911; ibid., 1911-1912, M.A., 1912; Wilmington College (Wilmington, O.), part-time, 1912-1916, A.B., 1916; The Ohio State University, Summers (nine weeks each), 1913, 1915, 1916; The University of Chicago, Summer (twelve weeks), 1921; The Ohio State University, 1926-1928, student and instructor; ibid., Summer (twelve weeks), 1929, Ph.D., 1929; Professor of Zoology, Valparaiso University, 1929—

Adelbert C. Hartung, M.A., *Professor of English.*

The University of Rochester, 1920-1924, A.B., 1924; Harvard University, 1924-1925, M.A., 1925; Johns Hopkins University, 1925-1926; The University of Chicago, Summer (ten weeks), 1927; Johns Hopkins University, 1927-1929; ibid., residence requirements for Ph.D. completed; Professor of English, Valparaiso University, 1931—

Frederick William Kroencke, Ph.D., *Professor of Philosophy.*

Concordia College (Milwaukee, Wis.), 1891-1893; Concordia Theological Seminary (St. Louis, Mo.), 1893-1895, Diploma, 1895; Lane Seminary, 1923-1924; University of Cincinnati, 1922-1924, A.B., 1924; ibid., 1924-1927, Ph.D., 1927; Assistant Professor of Philosophy and Education, Valparaiso University, 1927-1928; Professor of Philosophy, 1928—

Frederick V. Lofgren, Ph.D., *Professor of Pharmacy and Pharmacology.*

University of Washington, 1918-1920; Ph.G., 1920; ibid., 1920-1924, B.S., 1924; ibid., 1924-1925, M.S., 1925; ibid., 1925-1930, Ph.D., 1930; ibid., Teaching Fellow in Pharmacy, 1925-1927; ibid., Instructor in Pharmacy, 1927-1929; The University of Chicago, Summer (ten weeks), 1932, Summer (ten weeks), 1933; Assistant Professor of Pharmacy, Valparaiso University, 1929-1930; Associate Professor of Pharmacy and Pharmacology, 1930-1932; Professor of Pharmacy and Pharmacology, 1932—

Howard Wilson Moody, Ph.D., *Professor of Physics and Engineering.*

Cornell College (Mt. Vernon, Iowa), 1898-1902; A.B., 1902; The University of Chicago, 1908-1912, Ph.D., 1912; Professor of Physics and Engineering, Valparaiso University, 1930—

John Wallace Morland, A.M., J.D., *Professor of Law.*

Indiana State Normal, 1905-1910, Diploma, 1910; Indiana University, 1910-1916, A.B., 1916; ibid., 1916-1917, Summer (nine weeks), 1917, LL.B., A.M., 1917; The University of Chicago, 1918-1922, J.D., 1922; Instructor in History, Valparaiso University, Summer, 1919; Registrar, 1919-1921; Professor of Law, 1925-1927; Assistant Professor of Law, 1927-1929; Associate Professor of Law, 1929-1930; Professor of Law, 1930—

Ernest George Schwiebert, Ph.D., *Professor of History.*

Capital University, 1917-1918, 1919-1921; The Ohio State University, Summer (twelve weeks), 1919, Summer (twelve weeks), 1920; Capital University, B.A., 1921; Capital University Theological Seminary, 1921-1924, Diploma, 1924; The Ohio State University, 1921-1923, M.A., 1923; The University of Chicago, 1925-1926; Cornell University, 1927-1930, Ph.D., 1930; ibid., Assistant to Preserved Smith, 1927-1928; Professor of History, Valparaiso University, 1930—

Associate Professors

Walter Emil Bauer, Ph.D., *Associate Professor of History.*

Concordia College (Fort Wayne, Ind.), 1911-1917, Diploma, 1917; Concordia Theological Seminary (St. Louis, Mo.), 1917-1921, Diploma, 1921; The University of Chicago, Summer (six weeks), 1919; Columbia University, 1921-1922, A.M., 1922; Harvard University, 1922-1923; ibid., Instructor, 1922-1923; Cornell University, 1930-1932, Ph.D., 1932; Instructor in History, Valparaiso University, 1926-1929; Assistant Professor of History, 1929-1933; Associate Professor of History, 1933—

Arthur Albert Harwood, Ph.D., *Associate Professor of Pharmaceutical Chemistry.*

University of Wisconsin, 1919-1923, B.S., 1923; ibid., 1925-1926, M.S., 1926; ibid., 1927-1929, Ph.D., 1929; Assistant Professor of Pharmacognosy, Valparaiso University, 1929-1933; Assistant Professor of Pharmaceutical Chemistry, 1933-1934; Associate Professor of Pharmaceutical Chemistry, 1934—

Alfred H. L. Meyer, Ph.D., *Associate Professor of Geography and Geology.*

McKendree College (Lebanon, Ill.), 1916-1917; University of Illinois, 1917-1918, 1919-1921, A.B., 1921; The University of Chicago, Summer (four weeks), 1921; University of Illinois, 1921-1922, A.M., 1923; The University of Chicago, Summers (eight weeks each), 1924-1926; Northwestern University, Summer (eight weeks), 1927; University of Michigan, Summer (eight weeks), 1928, Summer (six weeks), 1929, Summer (six weeks), 1930, year 1932-1933; ibid., Ph.D., 1934; Instructor in Geology and Zoology, Valparaiso University, 1926-1930; Assistant Professor of Geology and Geography, 1930-1933; Associate Professor of Geography and Geology, 1933—

Walther Martin Miller, M.A., *Associate Professor of German.*

Concordia College (Fort Wayne, Ind.), 1915-1916, Diploma, 1916; Concordia Theological Seminary (St. Louis, Mo.), 1916-1919, Diploma, 1919; Harvard University, 1919-1923, M.A., 1922; ibid., Instructor in German, 1920-1923; ibid., second semester, 1930-1931; Instructor in German, Valparaiso University, 1926-1929; Assistant Professor of German, 1929-1933; Associate Professor of German, 1933—

Ancil Ridgeway Thomas, Ph.D., *Associate Professor of Physics.*

Earlham College (Richmond, Ind.), 1921-1925, B.S., 1925; Marion College (Marion, Ind.), Summer (eight weeks), 1928; Washington University, 1925-1926, M.S., 1926; ibid., 1926-1929, Ph.D., 1930; Assistant Professor of Physics, Valparaiso University, 1929-1933; Associate Professor of Physics, 1933—

Walter Eugene Thrun, Ph.D., *Associate Professor of Chemistry.*

Northwestern College (Watertown, Wis.), 1908-1910; University of Michigan, 1910-1912, A.B., 1912; ibid., 1913-1914, M.S., 1914; University of Missouri, 1914-1917, Ph.D., 1917; Johns Hopkins University, Fellow in the School of Hygiene and Public Health, 1918-1919; Assistant Professor of Chemistry, Valparaiso University, 1928-1931; Associate Professor of Chemistry, 1931—

Assistant Professors

Charles Harold Frick, M.S. in E.E., *Assistant Professor in Mathematics.*

University of South Carolina, 1926-1930, B.S. in E.E., 1930; Iowa State College, Research Fellow, Summer (twelve weeks), 1930; ibid., Graduate Assistant, 1930-1931, M.S. in E.E., 1931; Instructor in Mathematics, Valparaiso University, 1931-1934; Assistant Professor, 1934—

Hazel B. Tallman Guillaumant, M.A., *Assistant Professor of Romance Languages.*

Montana State College, 1921-1925, B.S., 1925; The State University of Iowa, 1925-1926, 1928-1929, M.A., 1929; ibid., Graduate Assistant, 1925-1926; National University of Mexico, Summer, 1927, Summer, 1930; LeSorbonne, Paris, 1933-1934, Diploma—Degre Superieur, 1934; Instructor in Romance Languages, Valparaiso University, 1929-1933; Assistant Professor of Romance Languages, 1933—

Fred Henry Otto Kaufmann, Ph.D., *Assistant Professor of Botany and Pharmacognosy.*

University of Wisconsin, 1921-1925, B.S., 1925; Michigan State College, 1925-1926, M.S., 1926; ibid., Instructor in Agronomy, 1925-1926; University of Wisconsin, Summers 1928, 1930, 1931, and 1932 (thirty-four weeks), year 1932-1933, Ph.D., 1933; Instructor in Botany, Valparaiso University, 1927-1932; Assistant Professor of Botany and Pharmacognosy, 1933—

Carl William Lauritzen, B.S. in E.E., *Assistant Professor of Electrical Engineering.*

University of Minnesota, 1917-1924, B.S. in E.E., 1924; ibid., 1928-1929; ibid., residence requirements for M.S. completed, 1929; Instructor in Electrical Engineering, Valparaiso University, 1926-1928, Assistant Professor of Electrical Engineering, 1928—

Carl Frederick Lindberg, Ph.D., *Assistant Professor of Education and Psychology.*

Augustana College, 1911-1914, A.B., 1914; University of Kansas, 1930-1933, Ph.D., 1933; Assistant Professor of Education and Psychology, Valparaiso University, 1934—

Frederick Irving Schweppe, A.B., Mus.M., *Assistant Professor of Music.*

State Teachers College (Eau Claire, Wis.), Summer (six weeks), 1919; Minneapolis School of Music, 1920-1922, diploma, 1922; University of Minnesota, Summer (eleven weeks), 1922, Summer (five weeks), 1929; MacPhail School of Music (Minneapolis, Minn.), 1922-1924, M.B., 1924; Northland College (Ashland, Wis.), 1926-1927; Valparaiso University, 1929-1931, A.B., 1931; Syracuse University, Summer (six weeks), 1931, Summer (six weeks), 1932, Second Semester, 1933-1934; ibid., Mus. M., 1934; Instructor in Public School Music, Valparaiso University, 1929-1933; Assistant Professor of Music, 1933—

A. M. Skinner, M.A., *Assistant Professor of Economics and Business Management.*

University of Kentucky, 1923-1926, A.B., 1926; Butler University, 1928-1929, M.A., 1929; The University of Chicago, Summer (ten weeks), 1931, year 1931-1932, Summer (ten weeks), 1932, Summer (ten weeks), 1933; ibid., residence requirements for Ph.D. completed, 1933; ibid., Summer (10 weeks), 1934; Instructor in Economics and Sociology, Valparaiso University, 1929-1931; Assistant Professor of Economics and Business Management, 1931—

Moses Walter Uban, A.B., B.S. in M.E., *Assistant Professor of Mechanical Engineering.*

Valparaiso University, 1909-1912, 1918-1922, A.B., 1922; The University of Chicago, graduate work, Summer (six weeks), 1922; ibid., part-time graduate work, 1927-1928; Valparaiso University, part-time during 1924-1925, 1926-1927, 1929-1930, Summer (ten weeks), 1930, 1930-1931, Summer (ten weeks), 1931, 1931-1932, Summer (five weeks), 1932, B.S. in M.E., 1932; Assistant Professor of English, Valparaiso University, 1922-1923; Instructor in Machine Shop, 1923-1926; Instructor in Engineering and Machine Shop, 1926-1928; Instructor in Engineering and Mathematics, 1928-1930; Instructor in Engineering, 1930-1934; Assistant Professor of Mechanical Engineering, 1934—

Instructors

Herman Blickensderfer, B.S. in C.E., *Instructor in Civil Engineering.*

School of Mines and Metallurgy (Rolla, Mo.), 1924-1927, B.S. in C.E., 1927; Instructor in Civil Engineering, Valparaiso University, 1927—

Jacob Melius Christiansen, A.B., *Instructor in Health and Director of Intramural and Intercollegiate Athletics.*

St. Olaf College (Northfield, Minn.), 1920-1924, A.B., 1924; University of Minnesota, Summer (six weeks), 1923; State Teachers College (Superior, Wis.), Summer (six weeks), 1924; ibid., Summer (three weeks), 1927; University of Michigan, Summer (six weeks), 1929; University of Wisconsin, Summer (six weeks), 1930; Acting Director of and Instructor in Physical Education for Men, including Intramural and Intercollegiate Athletics, Valparaiso University, 1929-1930; Instructor in Physical Education and Director of Physical Education for Men and of Intramural and Intercollegiate Athletics, 1930-1933; Instructor in Health and Director of Intramural and Intercollegiate Athletics, 1933—

Helen Marie Dvorak, B. of Mus., B.S., *Instructor in Harmony, Violin, Viola, and Cello.*

American Conservatory of Music, 1916-1920, B. of Mus., 1920; University of Illinois, Summer Session, 1922 (eight weeks); Teachers College, Columbia University, 1929-1933, B.S., 1933; Instructor in Harmony, Violin, Viola, and Cello, and Director of the University Orchestra, Valparaiso University, 1934—

Herbert C. Graebner, M.B.A., *Instructor in Business Management and Economics.*

Valparaiso University, 1926-1930, B.S., 1930; Northwestern University, 1930-1931, M.B.A., 1931; ibid., Summer, 1934; Instructor in Business Management and Economics, Valparaiso University, 1932—

Stacey LeRoy Green, A.B., *Instructor in Piano and Part-time Instructor in the Theory of Music.*

Northland College (Ashland, Wis.), 1918-1922, A.B., 1922; Piano under Dagmar Walle-Hansen, Oslo, Norway, 1922-1923; Instructor in Piano, Valparaiso University, 1929-1933; Instructor in Piano and Part-time Instructor in the Theory of Music, 1933—

Marshall John Jox, A.B., J.D., *Instructor in Law.*

Y. M. C. A. College, Chicago, 1923-1924; Indiana University, 1925-1928, A.B., 1928; University of Chicago, 1928-1931, J.D., 1931; Instructor in Law, Valparaiso University, 1934—

Donald D. Mallory, B.S. in M.E., *Instructor in Electrical Engineering.*

Valparaiso University, 1924-1928, B.S. in M.E., 1928; University of Michigan, Summer (eight weeks), 1931, Summer (eight weeks), 1932, Summer (eight weeks), 1933; Instructor in Electrical Engineering, Valparaiso University, 1929—

Gaynell Neff, M.A., *Instructor in Health for Women and Director of Intramural Athletics for Women.*

The Ohio State University, 1917-1918; University of Missouri, 1918-1920, B.S., 1920; Chicago Normal School of Physical Education, 1921-1922, Diploma, 1922; Columbia University, 1929-1930, M.A., 1930; Instructor in and Acting Director of Health and Physical Education for Women, Valparaiso University, 1932-1933; Instructor in Health for Women and Director of Intramural Athletics for Women, 1933—

Derrill Raymond Place, A.M., *Instructor in Public Speaking.*

Wabash College (Crawfordsville, Indiana), 1928-1930, A.B., 1930; The Ohio State University, 1930-1931, A.M., 1931; University of Southern California, 1931-1932; Cornell University, Summer (six weeks), 1932; University of Toulouse, Summer (four weeks), 1930; University of Munich, Summer (four weeks), 1930; Instructor in Public Speaking, Valparaiso University, 1932—

Elizabeth Anna Marie Rechenberg, A.M., *Instructor in German.*

Valparaiso University, 1911-1921, A.B., 1921; Indiana University, Summer (nine weeks), 1926, Summer (twelve weeks), 1927, Summer (twelve weeks), 1928, Summer (twelve weeks), 1929, A.M., 1929; Instructor in German, Valparaiso University, 1911-1917; Instructor in German and Botany, 1920-1924; Instructor in German, Botany, and Zoology, 1924-1927; Instructor in Botany, 1927-1933; Instructor in German, 1933—

Harold L. Rogers, B.M.E., *Instructor in Band Instruments and Director of University Band.*

Illinois Wesleyan University, 1927-1929, Diploma, 1929; ibid., 1929-1931, B.M.E., 1931; ibid., Summer (six weeks), 1931; Syracuse University, Summer (six weeks), 1932; studied brass instruments with Pedro Lanzo of Conway's Band; conducting and band repertoire with Harold Bachman; Instructor in Band Instruments and Director of University Band, Valparaiso University, 1931—

Hazel Dieseth-Schweppe, M.B., *Instructor in Voice.*

Calgary Normal (Canada), 1914-1916; studied voice with Madame Anna don Cochrane of the London Royal Academy at Edmonton, Canada, 1916-1919; Mac Phail School of Music (Minneapolis, Minn.), 1922-1927, M.B., 1927; voice under Oscar Saenger, Sergei Klibansky, Isac Van Grove, Oscar Seagle, Frank Proschowsky; piano under Von Buelow, Sergei Dunaevski; Instructor in Voice, Valparaiso University, 1929—

Robert Lincoln Taylor, A.B., J.D., *Instructor in Law.*

Yale University, 1923-1927, A.B., 1927; Northwestern University Law School, 1927-1930, J.D., 1930; Instructor in Law, Valparaiso University, 1933—

Herbert H. Umbach, Ph.D., *Instructor in English Language and Literature.*

Concordia College (Fort Wayne, Ind.), 1920-1926; Concordia Seminary (St. Louis, Mo.), 1926-1929, B.D., 1929; Washington University, 1929-1931, M.A., 1930; Cornell University, 1932-1934, Ph.D., 1934; Instructor in English Language and Literature, Valparaiso University, 1934—

Myers .E Zimmerman, A.B., *Instructor in Shorthand and Typewriting.*

Valparaiso University, 1914-1921, A.B., 1921; Instructor in Shorthand and Typewriting, Valparaiso University, 1915—

Raymond Charles Zuehlke, M.A., *Instructor in English and Journalism.*

Lawrence College, 1928-1930; University of Wisconsin, 1930-1934, B.A., 1932, M.A., 1933; ibid., Summer Sessions, 1930, 1932 (six weeks each), Instructor in English and Journalism, Valparaiso University, 1934—

Part-Time Instructors and Lecturers

Howard Theodore Betz, A.B., *Part-time Instructor in Mathematics and Physics.*

Valparaiso University, 1929-1933, A.B., 1933; Part-Time Instructor in Mathematics and Physics, 1934—

Grant Crumpacker, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1894; Valparaiso, Indiana, Attorney at Law, since 1894; Valparaiso University, Instructor in Law, 1894-1909; Porter County, Indiana, County Attorney, 1906-1927; ibid., Judge of Circuit Court, 1927-1933.

Roy B. Julian, A.B., M.S., *Part-time Instructor in Education and Assistant Director of Supervised Teaching.*

Indiana State Teachers College (Terre Haute, Ind.), 1910-1915, Diploma, 1917; Butler University, 1920-1923, A.B., 1923; ibid., M.S., 1930; The University of Chicago, Summer, 1933; Part-Time Instructor in Education and Assistant Director of Supervised Teaching, Valparaiso University, 1931—

Henry H. Kumnick, A.B., LL.B., *Part-time Instructor in Religion.*

Concordia College (Milwaukee, Wis.), 1905-1911, Diploma, 1911; Concordia Theological Seminary (St. Louis, Mo.), 1911-1914, Diploma, 1914; State University of Montana, 1921-1922, A.B., 1922; ibid., 1922-1924, LL.B., 1924; The University of Chicago, Summer (five weeks), 1931, Summer (five weeks), 1932; Part-Time Instructor in Law and Religion, Valparaiso University, 1927-1930; Part-Time Instructor in Religion, 1930—

Alfred J. Link, Ph.B., J.D., *Lecturer in Law.*

University of Chicago, Ph.B., 1916; ibid., J.D., 1917; LaPorte, Indiana, Attorney at Law since 1919; ibid., City Attorney, 1926-1929; LaPorte County, Judge of Circuit Court since 1929.

H. H. Loring, LL.B., *Lecturer in Law.*

Valparaiso University, LL.B., 1894; Valparaiso, Indiana, Attorney at Law since 1894; ibid., City Attorney, 1902-1908; Porter County, Judge of Circuit Court, 1915-1927; President of the First State Bank, Valparaiso, Indiana, since 1912.

*Edgar Alva Ridgely, Ph.G., *Part-time Instructor in Pharmacy.*

Valparaiso University, 1901-1902, Ph.G., 1902; Gary, Indiana, Registered Pharmacist since 1908; Part-Time Instructor in Pharmacy, Valparaiso University, 1931—

Mark B. Rockwell, B.S., LL.B., *Lecturer in Law.*

Ohio Northern University, B.S., 1901; Valparaiso University, LL.B., 1904; Judge of the Porter County Superior Court.

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*Died January 24, 1935.

Critic Teachers

(1934-1935)

Valparaiso Public Schools

Ruth Andres, A.B.---*English*
Cecil Loar Bigelow, B.S.---*Mathematics*
Joseph Beasley Brown, A.M.---*Industrial Arts*
Emma R. Foor, A.B.---*English*
Dessa Mae Hudson, B.C.S.---*Commercial*
Homer Marion Jessee, A.B.---*Mathematics*
Mabel Jessee---*Fourth Grade*
Wm. R. Kendall, B.S.---*Biology*
Clare McGillicuddy, A.B.---*Mathematics*
Claude O. Pauley, A.B.---*Science and Mathematics*
Leathe Carman Ponader, B.S.---*Art*
Ralph Powell, A.B.---*History and Physical Education*
Frank Grafton Reid, B.S.---*History*
Frieda Schenck, A.M.---*German*
Ralph Eugene Schenck, M.A.---*Commercial and History*
Helen Louise Schudel, A.B.---*Physical Education*
Hazel Sowers, B.S.---*Social Science*
Mary Stoner---*Second Grade*
Olie Welty---*Latin*
Russell H. White, A.B.---*Science*

Student Assistantships

(1934-1935)

Kurt Biedermann, Assistant to the Librarian in the University Library.
Rosemary Blaese, Assistant in Business Management.
Elwin Brittan, Assistant in Music.
Walter A. Christopher, Assistant in Social Science.
Paul Dietz, Assistant in Zoology.
Robert Frick, Assistant in the College of Engineering.
Theodore Frincke, Assistant to the Librarian in the University Library.
Lenard P. Gotsch, Assistant in Mathematics and Physics.
Muriel Jones, Assistant in English.
Delmar Karger, Assistant in the College of Engineering.
Norman Kiesling, Assistant to the Librarian in the School of Law.
George Krampien, Assistant to the Librarian in the School of Law.
Edward W. Lieske, Assistant in the College of Engineering.
Donald Lightcap, Assistant in the College of Pharmacy.
Walter Matthews, Assistant in Chemistry.
Meta Mueller, Assistant in Social Science.
J. Arthur Scheiderer, Assistant in the College of Engineering.
Edward Singer, Assistant in Education and Psychology.
Clelland Snyder, Assistant in Botany and Pharmacognosy.
William Wissman, Assistant in the College of Pharmacy.

Administrative and Office Assistants

(1934-1935)

Library
SELMA KROENCKE, A.B., *Assistant to the Librarian*

President's Office
LAURA SAEGER, A.B., *Secretary*

Office of the Registrar-Business Manager
MARTHA CARLSON, ESTHER KIRCHHOEFER, A.B.
MARIE NICHOLSON, NORA WERLING,
MYERS ZIMMERMAN, A.B.

Lutheran University Association
HILDA NUOFFER, *Secretary*

Department of Public Relations
MILDRED CARLSON, HELEN MARKS

PART II

GENERAL INFORMATION

History and Aims

A new chapter in the history of Valparaiso University was begun in the summer of 1925 when this institution was purchased by the Lutheran University Association, an Indiana corporation, composed of men and women of the Lutheran faith who belong to churches affiliated with the Synods comprising the Evangelical Lutheran Synodical Conference of North America. This association today owns the physical property and controls the policies of the institution.

The history of Valparaiso University dates back to the days before the Civil War, when on September 21, 1859, the Valparaiso Male and Female College was opened in Valparaiso, Indiana. The beginning was auspicious; the reverses suffered as a result of the Civil War, however, compelled the suspension of classes 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. Under the leadership of these men the school grew rapidly in numbers and in influence. In 1900 its name was changed to Valparaiso College, and in 1907 to Valparaiso University.

The primary consideration prompting the acquisition of Valparaiso University by the Lutheran University Association was that of providing the church-body, to which its members belong, with a school of higher learning which would devote itself to the education of its young people in the fields of secular knowledge. While the synods of the Synodical Conference had for years maintained numerous schools for the training of pastors for their pulpits and teachers for their parish schools, none of them maintained an institution of higher learning specifically to train their young people for the lay professions. It was the desire to supply this need in the educational program of the church that led to the organiaztion of the Lutheran University Association and to the acquisition of Valparaiso University by this association.

While Valparaiso University as an institution of higher learning under Lutheran auspices indeed welcomes students of all religious persuasions, without distinction or discrimination, its chief field of service is to the young men and women of its own communion. It aims to serve these young people by offering them a thorough general, advanced, and special training in such fields of learning as its facilities and resources permit, and by offering them this training in an environment which, by deepening their Christian consciousness, will at the same time tend to promote their spiritual well-being and growth.

Valparaiso University seeks to realize the aims and ideals of its supporting constituency through the total pattern of its activities under the guidance of a faculty and an administration committed to these ideals.

As its motto it has adopted the word of the inspired psalmist: "In luce tua videmus lucem" (In Thy light shall we see light).—Ps. 36, 9.

Location

The University is located at Valparaiso, Indiana, forty-four miles southeast of Chicago. Valparaiso, a city of eight thousand inhabitants and the county seat of Porter County, is located in a thriving agricultural region adjoining the populous industrial communities of the Calumet District. Gary, Hammond, Indiana Harbor, Whiting, Michigan City, LaPorte, and South Bend are within easy reach. The Lincoln Highway and the Yellowstone Trail give easy access to the city for those who travel by automobile. Three railroads, the Pennsylvania, the Grand Trunk, and the Nickel Plate, give Valparaiso service better than that boasted by many larger communities. Excellent commutation service is maintained with Chicago. An electric interurban line links the city with Gary.

The city is beautifully located approximately on the crest of what is called the Valparaiso Terminal Moraine, the highest ridge in northern Indiana,

which acts as the watershed between the Great Lakes-St. Lawrence and the Mississippi drainage system. From College Hill, a knoll rising to an elevation of about 790 feet above sea level at the southeastern edge of the city, where the University buildings are grouped, the view to the south, in the direction of the Kankakee River and its famous marshes, is especially beautiful. Sager's Lake, which lies in this direction, is a particularly favored spot. Toward the north, the Sand Dunes are of unusual interest as natural formations of great geologic, biologic, and scenic interest.

Unusual opportunities are offered to students of geology, botany, and zoology in the natural laboratories provided by the desert conditions of the dunes, and by the abundance of water and aquatic plants and animals in the intermorainal and interdunal pockets on either side of the main ridge. Furthermore, the nearness of the Calumet industrial region and the exceptionally central location of the University with respect to Chicago, Detroit, and Indianapolis make this an especially favored school from the standpoint of the applied science, both physical and social, as well as from that of the commercial studies. Inspection trips to the Field Museum of Chicago, to the steel mills of Gary, and to the Dunes State Park form a regular part of the course of study in the several departments.

From a residential point of view, Valparaiso offers many advantages which are lacking in the great cities: abundance of pure air, broad, shaded streets, and open country within fifteen minutes' walk from the business district. As a place for the training of youth, Valparaiso offers advantages superior in many respects to those of the big city, since it is not, as in the case of the latter, handicapped by many disturbing influences.

Buildings and Equipment

The University occupies a number of commodious buildings, grouped in the neighborhood of University Place.

The Auditorium is on the west side of College Avenue. The ground floor contains the Office of the Registrar-Business Manager, some lecture rooms and several departmental offices. The second floor has a large auditorium with a seating capacity of about fifteen hundred.

Music Hall, a three-story building, is directly opposite the Auditorium. It contains the University administrative offices, a number of studios, harmony and recital halls, and many private practice rooms.

Science Hall faces north and is opposite the Auditorium on University Place. The ground floor contains the physics laboratory and work-shop, a large chemical laboratory and the general stock room. The first floor contains the lecture rooms for physics and chemistry, the analytical laboratory, weighing room, offices for the chemistry and physics departments, and a research laboratory. The second floor houses the College of Pharmacy with its offices, a large pharmacy and dispensing laboratory, a pharmacognosy laboratory, and several lecture rooms.

Immediately west of Science Hall is the Biology Building, containing a number of lecture rooms and three well-equipped laboratories for botany, geology and zoology.

The University Library is housed in a building north of the Auditorium, on College Avenue. It contains 22,185 volumes of books, 1,389 unbound periodicals, 2,486 government bound volumes, 9,408 pamphlets, and 9,841 government pamphlets. It subscribes for approximately 166 periodicals.

Arts-Law Hall, a modern building, is north of the Library, at the intersection of College Avenue and Freeman Street. This building houses the School of Law with its library on the first floor, and several departments of the College of Liberal Arts on the second and third floors.

The Engineering Building, corner College Avenue and Union Street, is used exclusively for engineering. There are extensive machine shops, electrical

laboratories, woodworking shops, drafting rooms, testing laboratories, foundries, and a modern power plant.

A building devoted to Health and Physical Education is one of the first structures to be erected according to the plans of the Board of Directors. Meanwhile, adequate arrangements have been made with the public school authorities for the use of their commodious High School Gymnasium. Brown Field is well equipped for outdoor athletics. Its tennis courts deserve special mention. The field is located near the University, on a tract of land which is reserved for additions to the present University plant.

Grounds, buildings, and equipment are appraised at more than $900,000 by the American Appraisal Company.

Cost

The University tries to keep the cost of tuition, fees, board, and room at a figure that is reasonable and at the same time consistent with its determination to live up to its ideals in education.

Tuition and Fees

Tuition costs $175.00 for the entire school year, payable $87.50 each semester.

General fees—for athletics, health service, the use of the library, and special lectures—amount to $18.00, payable $10.00 the first semester and $8.00 the second semester.

Laboratory fees are charged in some departments and are listed under the respective courses. The deposits listed for some courses are returnable at the end of the semester, less breakage.

Applied Music Fees

The University tries to encourage students to continue applied music instruction in college by charging a modest fee for private lessons.

In addition to the regular tuition cost, eighteen private lessons in applied music may be taken for twenty-five dollars per semester; in band instruments for eighteen dollars per semester. Rental of a private practice room with piano for one daily practice hour is five dollars per semester; for each additional hour a charge of five dollars is made per semester.

Tuition and Fees for Part-Time Students

Part-time students are students who register for nine credit hours or less. Students who register for from seven to nine credit hours pay $6.00 per credit hour and full general fees.

Students who register for six credit hours or less pay a library fee of $5.00 in addition to a tuition charge of $6.00 per credit hour.

Auditors pay only $6.00 per credit hour equivalent.

Board

Board is provided under pleasant surroundings at the main restaurant in Altruria Hall and at the Brown and Gold Coffee Shop, corner College Avenue and Mound Street. The student may purchase individual meals or buy meal tickets for $4.00 each. Many students require only one ticket per week. Thus their board amounts to $72.00 the semester.

Tickets cannot be made interchangeable between the main restaurant and the coffee shop, since each is managed separately as a self-sustaining enter-

prise. However, for variety and change upperclassmen may alternate in their patronage of the University's restaurants at will.

Freshmen are required to take their meals in the main restaurant. At the beginning of each semester, therefore, they will either purchase or contract for their semester's supply of meal tickets.

Rooms

The University maintains a dormitory for men which is known as Lembke Hall. This is divided into two wings, known as North and South Lembke. South Lembke is set aside exclusively for freshmen students.

The accommodations at Lembke Hall include a club room, a few single rooms, and a large number of two-room suites for two students.

Freshmen who do not live with their parents or guardians are required to live in Lembke Hall.

Additional quarters for men students are listed in the University's record of approved rooming houses. This is supplied by the Dean of Students.

Altruria Hall is the dormitory for women. It has a large reception hall, some single accommodations, and many rooms for two students. Women students who do not live with their parents or guardians are required to live at Altruria Hall.

Lembke and Altruria Halls as well as all approved rooming houses are under the care of resident matrons or house mothers.

All rooms in the University dormitories are provided with the necessary furniture. However, occupants supply their own blankets, sheets, pillows, pillow cases, towels, floor coverings, and curtains.

University women and first-year men who cannot be accommodated in their respective halls will be assigned to other rooms.

Rooms in the University's halls may be had at rates ranging from $32.00 to $42.00 in the men's dormitory and from $32.00 to $47.00 in the women's dormitory.

Table of Minimum Costs

The following table of *minimum* costs is supplied for the convenience of parents or guardians and students:

For each semester:

Tuition	$ 87.50
General Fees	9.00
Board	72.00
Room	32.00
Total	$200.50

Amounts due the University are ordinarily payable in full at the time of registration.

However, the University has successfully inaugurated a time payment plan to enable parents and guardians to meet the major expenses out of current income. The plan covers tuition, music lessons, board, and room, but not *fees and other similar minor items* which are always paid in advance. A small carrying charge of 50 cents for each $50.00 or fraction thereof will be collected in advance on deferred amounts to reimburse the University for the extra cost of carrying and collecting accounts.

Application for spreading payments over the semester is made to the Business Manager by parents or guardians direct, either in writing or in person;

and all arrangements should be completed *before* registration in order to avoid delay and confusion.

No student will be registered if his account for the preceding semester has not been settled. No degree will be conferred upon or transcript of credit given for the student whose account with the University has not been settled in full.

Refunds

In case of *formal voluntary withdrawal only,* the tuition fee is refundable as follows: two-thirds until two weeks and one-third until ten weeks after the opening of a semester. If the student is dismissed there is no refund of this fee.

General, special, and laboratory fees are never refunded.

Unused portions of payment made for board and room are refunded in all cases of withdrawal.

Refunds are made to parents or guardians direct, unless the University is instructed by them to remit to the student. Refunds must be claimed in writing at the latest within six months of the close of a given semester. Amounts not claimed within the specified time are turned over to the University's student loan fund.

Special Fees

Matriculation—$5.00. This fee is payable once only, when the student is first admitted to the University.

Late Registration—Fifty cents per day until the close of registration.

Condition Examination—$3.00.

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 Admission.

Graduation—$10.00; payable during the first week in November preceding the date of the student's graduation.

Payee

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

Routine of Matriculation

Upon reaching Valparaiso, new students should come to the office of the Dean of Students who will supply the necessary information respecting registration, rooms, and board.

Student Council Fees

The student council has been entrusted with the management of certain student activities and is authorized to collect the following activities fees:

$12.00 for the year, payable $8.50 at the beginning of the first semester and $3.50 at the beginning of the second semester. This entitles the student (1) to *The Torch* which is published approximately thirty times by the journalism class under the supervision of the Department of English, and contains campus news; (2) to admission to the lectures and entertainments of the student lyceum; (3) to band and orchestra concerts sponsored by the council; and (4) to student debates and dramatic productions. Upwards of

fifteen admissions are offered under this fee; (5) to *The Uhlan,* the students' annual which contains a comprehensive record of the year's activities.

Religious Activities

The principal concern of the Dean of Students is the spiritual welfare of the students at the University. Chapel exercises are conducted every morning from Monday to Friday during the regular scholastic year. The University regards these devotions as its family altar. The chapel period is emphasized for the sake of cultivating and strengthening the student's spiritual life. All students of the Lutheran faith are required to attend the chapel exercises.

Gamma Delta

Gamma Delta is the University chapter of the Walther League, an international organization of Lutheran young people. This organization engages the interest of a number of students in its varied program of religious work. Meetings are held twice a month. The program is in charge of members of the chapter under the direction of a member of the faculty.

Church Attendance

All students are expected to attend the church services of their denomination regularly every Sunday. Every courtesy is extended to the pastors of the city of Valparaiso to enable them to do pastoral work in the interest of the students of their faith.

Student Conduct

Matters of conduct are in the hands of the Dean of Students. Supervision of all social activities is maintained by his office.

The University takes the attitude that all the resources of college life must tend to develop moral character in young men and women. Students, therefore, are expected to learn the value of following rules and regulations enacted for the welfare of group life. Obedience to law is best learned by the actual practice of obedience. Accordingly, set regulations, shown by experience to be salutary for all students, are enforced at the University.

There are offenses which inevitably involve the separation of a student from the University, such as willful or habitual disregard of college regulations, gambling, inebriety, any form of impurity, the continual use of profane or obscene language, and dishonesty in the classroom and in campus relationships. Furthermore, the University insists that any marriage, either party to which is a student of Valparaiso University, must be publicly announced. For this purpose, written consent for such marriage must be filed with the Dean of Students by the parents or guardian of the student prior to its solemnization. Any attempt to keep the fact of the marriage secret will result in indefinite suspension effective from the date of the marriage. Finally, the University reserves the right at any time to terminate a student's enrollment whenever his conduct in its opinion is prejudicial to the best interests of the University. Such conduct may involve destructive criticism and a habitual attitude of opposition to plans for the promotion of the welfare of the Unversity and its student body.

The Advisory System

It is the aim of the administration to remain in close touch with each student; hence, each student is given a junior college adviser at the time of his

admission. In his junior and senior years he is assigned to the adviser in the department of his major study.

Each adviser aims to know personally every student under his jurisdiction. He tries to note the special abilities of each student and on the basis of observation guides him in the arrangement of his schedule so that he may choose the right field of concentration and subsequently meet the requirements for graduation in their proper sequence. The adviser constantly encourages the student to strive for excellence and high standards of performance.

Student Aid

There are a number of forms of student aid available at Valparaiso University. All forms of student aid are granted only after a thorough investigation by the University's Committee on Student Aid. The extent and nature of aid to be granted is determined, with the exception of endowed scholarships, by the Committee on the merits of each case. In general, however, the scholastic record, the need of financial assistance, and the character of the student are the determining factors upon which the Committee will base its final decision. All forms of student aid are granted for one year only and reapplication must be made for subsequent aid. Student aid, furthermore, may be revoked at any time if, in the judgment of the Committee, the student to whom it has been awarded has not done satisfactory work, or if for any other reason the Committee feels the aid has been misplaced.

Endowed Scholarships

The following scholarships, the income of which is made available to students, have been established by friends of Valparaiso University:

The A. F. Beckman Scholarship in the sum of $5,000.
The (Mrs.) Amalie Bokeman Scholarship in the sum of $4,000.
The John V. Borgerding Scholarship in the sum of $4,000.
The Mary Hilgemeier Scholarship in the sum of $5,000.
The Mr. and Mrs. Dirk Meyer Scholarship in the sum of $5,000.
The H. L. Ulbrich Scholarship in the sum of $4,000.
The John H. Wefel Scholarship in the sum of $3,000.
The F. G. Walker Scholarship in the sum of $4,000.
The Mr. and Mrs. Henry Wehrenberg Scholarship in the sum of $5,000.
"A Scholarship" (name of donor not to be published), in the sum of $4,000.

Other Scholarships

The Philip Wambsganss Memorial Scholarship for a student of Allen County, Indiana, in the amount of $175 per year.

The Porter County (Indiana)-Valparaiso University Scholarships. Five scholarships in the sum of $100 each are awarded annually to high school seniors in Porter County. A competitive examination is required of all candidates. Selection is made by a special committee composed of the county superintendent of schools and three high school principals.

Annually the Board of Directors authorizes a number of scholarships in varying amounts for students who have maintained superior records in high school and college. Recipients of scholarships are expected to devote their full time to their studies. Outside employment by scholarship students is not permitted, except in rare cases, and only upon special permission of the Committee.

Student Assistants

A number of student assistants are employed by the University in the laboratories, general library, law library, or in such other departments as may

require the services of an assistant. These assistantships are available to students who have been in residence for at least one year. Appointment to an assistantship is granted only on the recommendation of the dean of the college or head of the department in which the student is to serve. Such recommendation will only be made for students who show a special fitness for the particular work and who have superior scholastic records.

Student Aid Awards

Student aid awards are one form of part-time work. They are granted to students in real need who have scholastic records which in the judgment of the committee will enable them to be employed for a reasonable number of hours per week without jeopardizing their scholarship. As in the case of all other forms of student aid, these awards are granted for one year only. Scholarship which is below average (C) at the end of the first semester may cause the revocation of such aid.

The Business Manager of the University assigns all recipients of student aid awards to University part-time employment. The requirements of the particular work and the fitness of the student to perform the services required in a satisfactory manner are the determining factors upon which the Business Manager makes the assignment.

Students receiving this form of aid may be employed in the University's offices, the Brown and Gold Coffee Shop, and the Altruria Restaurant. A number of students are also assigned to perform janitorial work. campus gardening, and other similar services.

Student Loans

A very limited number of student loans are available to needy students. These loans are negotiated with the Business Manager upon recommendation of the Committee on Student Aid.

Student loans are not intended for students who can by their own efforts secure financial aid or part-time employment. A thorough investigation, therefore, of a student's application for aid will be made by the committee before making a definite recommendation to the Business Manager. Students contemplating this form of aid should file an application well in advance of the opening of the semester in which the loan is desired.

Loans are secured by notes, properly signed by parents or guardians. Interest at the rate of six per cent (6%) per annum is charged from date of graduation or from the date the student leaves Valparaiso University. Repayment of a student loan is begun six months after graduation or for those who do not graduate, three months after leaving Valparaiso University. A complete statement of rules governing the administration of student loans may be obtained from the Business Manager.

The Henry Strong Educational Foundation allots a certain amount of money each year for the making of loans to upper-classmen. Candidates are recommended by the Committee on Student Aid. Repayments are due after graduation; 10% the first year, 20% the second year, 30% the third year and 40% the fourth year. Interest at 4% accrues after graduation. All repayments are again credited back to Valparaiso University for use in making additional loans. No loans can be made to students over twenty-five years of age.

Method of Application for Aid

Student aid is granted only on the basis of formal application to the committee on the University's approved form. New students must also submit their application blank for admission. Any form of student aid extended may be automatically voided if it is found that the applicant has misrepresented any facts given or has failed to abide by the conditions under which the aid is

granted either before or after actual residence at the University. Application for all forms of student aid should be made to the Secretary of the Comimttee on Student Aid.

Health and Physical Education

Every student, upon entering, receives a physical examination which forms the basis for special advice and for prescribed work where this is needed.

Athletic sports and exercises for men are encouraged as a part of the University's program of physical education. The University is a member of the Indiana Intercollegiate Conference and fosters both intercollegiate and intramural athletics.

Brown Field also provides facilities for outdoor sports for women including field hockey, tennis, archery, and baseball.

Under the supervision of the director of intramural athletics for the women the Women's Athletic Association plans and conducts an intramural program of athletics and sports for women.

Student Organizations and Extra-Curricular Activities

College life includes not only education but also social experience. As a desirable means for such self-expression student organizations and extra-curricular activities are open to all students.

Student Council

The Student Council is composed of representatives chosen by the various colleges, who, with representatives of the administration, make a body before which the larger student affairs of the University are presented for discussion and solution. A monthly forum gives opportunity to the student body of the University to express themselves on important questions pertaining to student affairs and suggest solutions. The responsibility for desirable school spirit has not been misplaced. The representatives on the Student Council have thus far proven themselves young men and women of high ideals.

Special Lectures and Concerts

An important feature of the activities of the University is an annual series of special lectures and entertainments. These programs are secured by the Lecture and Entertainment Committee upon approval by the Student Council and by the administration. All students are admitted on student passes. The programs are planned to contribute to the cultivation of literary and musical interest.

Student Publications

The weekly newspaper of the University, *"The Torch"*, is edited by a staff which is appointed by the Student Council. The staff operates under the supervision of the Department of English Language and Literature. The paper serves the purposes of a laboratory for students interested in journalism.

The year book, *"The Uhlan"*, is published by a staff composed of members of the junior class appointed by the Student Council. The staff operates under the supervision of two departments, that of Business Management and Economics and of English Language and Literature. The year book furnishes information on the faculty, classes, activities, and organizations of the year.

Class Organizations

Each of the four student classes maintains a permanent organization, with officers and a treasury, for the management of class affairs. It is expected that students will become members of these organizations and participate in the normal activities of the class.

Honorary Societies

The honorary fraternities on the campus are Alpha Psi Omega (dramatics), Phi Sigma (forensics), Iota Sigma (journalism), and Pi Gamma Mu (social science).

These organizations are branches of national organizations with the same names. In each of them the membership is made up of junior and senior students who have the same major interests, as indicated in the list above. The main objectives of these honorary fraternities are the promotion of high scholastic attainment and the stimulation of active professional interests. In most cases these members are elected on a basis of high scholarship.

Literary and Scientific Societies

Departmental societies of the College of Liberal Arts as well as similar groups of the College of Engineering, the College of Pharmacy, and the School of Law give ample opportunity to all students to present essays, orations, discussions, and criticisms, as well as to hear men and women of note in their respective fields of learning. The societies include such groups as the Biology Club, Chemistry Club, Commerce Club, Education and Psychology Club, English Club, Mathematics Club, Engineering Society, Valparaiso Pharmaceutical Association, and the University Lawyers' Association.

Intercollegiate and Intramural Athletics

Athletics, although not over-emphasized, are given a prominent place in student activities. Valparaiso University is a member of the Indiana Intercollegiate Conference and participates in the major college sports, football, basketball, golf and tennis. Intercollegiate athletics for men are controlled by the director of intramural and intercollegiate athletics and a faculty committee. All men who have won the athletic letter "V" through participation in college athletes make up the Varsity V Association. This association functions particularly at home-coming celebrations. Interclass and intramural competition is likewise encouraged. Students are urged to participate in some form of athletic activity. Eligibility rules govern membership on the various athletic teams.

The intramural program of athletics and sports for women as sponsored by the Women's Athletic Association is under the control of the director of intramural athletics for women. The platform of the Women's Division of the National Amateur Athletic Federation, in which W. A. A. holds membership, serves as the basis for the conduct of physical activities. Every woman student is eligible for membership in W. A. A. and may become a member upon the fulfillment of a 50-point requirement. These points are to be earned in athletic activities as specified by the Association.

Dramatics

All public dramatic offerings are under the control of the Student Council and of the administration. Eight dramatic productions may be presented annually, four plays by the University Players; two plays by the English Club, a literary organization; and the balance by other University organizations.

The University Players operate under the supervision of the Director of Dramatics, and the English Club under the Head of the Department of English Language and Literature.

Opportunity is given for qualified students to direct plays and help in the management of dramatic activities. The groups of players always seek to put emphasis upon literary and artistic values rather than upon the merely spectacular. They play strictly in the amateur spirit and do not desire to imitate the professional theatre.

Forensics

Debating has been organized to provide training and experience for all students interested in this work. The activity is managed through two debate seminars, one of which is for freshmen and the other for upperclassmen. The varsity team is chosen from the upperclassmen, but it is the policy to provide an opportunity for all students to appear in debate at least once. The University is a member of the Indiana Debate League and the Midwest Debate Conference.

An advanced course in public speaking prepares the students for participation in the contests of the Indiana division of the Interstate Oratorical Association and the Intercollegiate Peace Association. Both of these organizations choose a national winner.

Students who satisfy the requirements for entrance are eligible to Phi Sigma, a local honorary forensic fraternity.

Forensics are supervised by the Department of English Language and Literature.

Musical Organizations

The University Choir provides opportunity for the singing of sacred music *a capella*. It is composed of about sixty mixed voices and meets in daily rehearsal. Tours to different parts of the United States are made annually by the choir. The repertoire of the Men's Glee Club includes sacred numbers, ballads, humorous and popular songs. The University Band meets in daily rehearsal. It plays at many college functions and presents a concert each semester. The University Symphony Orchestra holds weekly rehearsals.

PART III

ADMINISTRATIVE PROCEDURE

Administrative Procedure

Admission and Registration

Graduates with acceptable scholastic records from recognized secondary schools will be admitted to the freshman class of Valparaiso University. In addition to satisfactory academic attainments as indicated by the scholastic record, importance is attached to qualities of character and personality. The University secures information upon these points from the data contained in the application blank filed by the student.

The admission, continuance upon the rolls, and graduation of every student is subject to the disciplinary powers of the University. A student is received only upon condition that his connection with the University may be terminated whenever, in the judgment of the executive, his conduct is such as to be prejudicial to the best interest of the University.

Application for Admission

An application blank may be secured by addressing the Registrar. This should be filled out and forwarded to the Registrar of the University as early as possible. A student's credentials must be approved by the Registrar before his registration is complete. All certificates upon which admission is granted become the property of the University and are preserved in its permanent files.

Graduates of High Schools Accredited by the North Central Association

A graduate of a high school accredited by the North Central Association of Colleges and Secondary Schools, or a similar regional accrediting agency, will be admitted without condition.

Graduates of Other Accredited High Schools

A graduate of any high school which is not recognized by a regional accrediting association may be admitted without condition upon approval of the Committee on Admissions. Each application will be considered upon the basis of individual merit.

Recommended Units for Admission

The following units, *though not essential to admission,* are regarded as *highly desirable.* Students planning their high school work are urged to arrange their schedule in such a way as to be able to present the following units:

English	3	A foreign language	2-4
Algebra	1	Social Studies	2
Plane Geometry	1	A laboratory science	1-2

A student desiring admission to the College of Engineering must present, in mathematics, one and one-half units in Algebra, one unit in Plane Geometry, and one-half unit in Solid Geometry. A student deficient in Solid Geometry may be admitted as a conditioned student. The condition must be removed during the first semester of residence, by passing Mathematics 01, Solid Geometry.

Admission As Special Students

Students not candidates for a degree may be admitted to the University as special students on the approval of the Committee on Admissions. Those seeking this privilege are admitted under the following conditions: (1) they must be prepared to do the work desired and give good reason for not taking the regular course; (2) they must be at least twenty-one years of age.

Special students may become candidates for degrees by meeting the requirements for regular admission.

Special students are not admitted to the School of Law.

Admission to Advanced Standing

Students from other institutions seeking admission to Valparaiso Univeristy must present evidence of honorable dismissal from the institution last attended. All claims for advanced credit must be presented to the Registrar in the form of an official transcript. The University reserves the right to reject any applicant for admission by transfer whose academic record is unsatisfactory.

Registration

All students are expected to register on the official registration days of each semester. Information concerning the official registration days will be found in the University Calendar.

Responsibility of Students Upon Registration

In registering, the student subscribes to the terms and conditions, financial and otherwise, which have been set forth in these announcements.

Freshman Days

The purpose of freshman days is educational guidance and orientation for college life.

All members of the incoming freshman class are required to be in residence in Valparaiso several days before the return of the upperclassmen. The period prior to recitations is known as freshman days. During this time the freshmen are divided into groups. Faculty advisers aid them in every way possible to become adjusted to their new environment. There are lectures on university curricula, regulations, and customs. Various tests and a physical examination are given in order that the University may obtain accurate information concerning the mental qualifications as well as the degree of health of every student. A part of the time is devoted to freshman registration. Each student is then assisted in the selection of his course of study by his faculty adviser. A full program of the activities of freshman days will be sent to each freshman before he comes to the University.

Change of Program

During the first and second weeks of the semester, changes of enrollment may be made with the written approval of the student's adviser. Two weeks after the beginning of the semester no changes of enrollment will be allowed except upon the written approval of the student's adviser, of the instructors concerned, and of the Committee on Scholarship.

Students who wish to drop courses after the second 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 one dollar is payable by each student for each subject changed after the beginning of the third week of the semester or session, unless the change is required by the University.

In no case, except for prolonged illness, will a student be allowed to change his program of studies or withdraw from a course without a grade of "F," after the end of the sixth week of the semester.

Attendance on Courses as Visitors

Attendance by a registered student as a visitor in a course for which he is not registered is allowed only with the approval of his adviser.

Transfer to Another Program

If a student transfers from one major or program of studies to another, as for instance, from Pharmacy to Law or from Engineering to Education, 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 concerned. For a form of such transfer see the Registrar.

Credit Hour

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 seventeen semester credits; and the minimum registration is twelve semester credits.

Students who maintained a standing of two (2.0) during the previous semester may register for extra work, provided their petition for such work is approved by the Committee on Scholarship. This permission will be granted only on written application preferably before registration is completed. Freshmen will not be allowed to carry extra work during the first semester. Students receiving permission to take extra work must obtain a standing of 1.5 in all subjects, or sixteen credits only will be granted, regardless of the hours passed in class.

Number of Credit Hours Without Petition

COLLEGE OF LIBERAL ARTS:
In all departments except as required in special authorized curricula ---------- Maximum, 17 credits
COLLEGE OF ENGINEERING:
In Civil, Chemical, Commercial, Electrical, and Mechanical Engineering ---------- Maximum, 19 credits
COLLEGE OF PHARMACY ---------- Maximum, 18 credits
SCHOOL OF LAW ---------- Maximum, 14 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 Registrar for a permit to withdraw. Upon return of the permit properly signed, the Registrar will issue an order for the return of such fees as are refundable. In every case the parent or guardian is notified of 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.

On withdrawal every student who has met all financial obligations to the University is entitled to a transcript which contains all the important facts pertaining to his admission, classification, and scholarship.

Regular Examinations

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

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

The semester examinations are conducted according to a published schedule.

Senior Examinations

All examinations of seniors in the semester of their graduation must be completed by the evening of the Tuesday before Commencement Day. This

does not apply to seniors who are to complete their work at the end of the first semester or in the summer session.

Special Examinations

Special examinations are given only to conditioned (grade E) students and 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 advisor on recommendation of the instructor. A condition grade of E must be removed by special examination during the next academic semester. If not so removed, the grade E becomes a grade F (failure) and the Registrar is authorized to make the change on the student's permanent record. In no case may a student remove a grade F by special examination. The subject must be repeated for credit.

Student is charged a fee of three dollars for each condition examination and a fee of one dollar 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.

Marking System and Quality Points

Results of work will be recorded in the Registrar's Office as follows:

A. Work of the best grade, excellent; valued at three (3) quality points for each credit.

B. Work better than average, good; valued at two (2) quality points for each credit.

C. Average work, fair; valued at one (1) quality point for each credit.

D. Work below average, unsatisfactory; indicates a deficiency and gives no quality points, but gives credit for graduation if with such credits the student's standing is one (1) or more.

E. Condition grade. This grade is given only when there is a good reason for the deficiency and reasonable probability that it can be remedied. It requires a special examination for its removal to be taken during the student's next semester of residence. If the student does not enroll for the next semester after having received a grade of E, the next semester of residence must be within a period of three years thereafter; otherwise the grade becomes F automatically. When the work has been brought up to the passing grade within the specified time, the E is converted into D, but not into higher grade.

F. Failure, valued at 0 credits and 0 quality points.

I. Incomplete. Indicates satisfactory work, some part of which is incomplete. It must be removed during the first semester in which a student attends school after having secured the I, otherwise it becomes an F automatically. If the student is not in attendance during the next semester after having received a grade of I, a maximum of three years is allowed for the removal of same. If the grade of I is not removed within this time limit, the grade becomes F automatically.

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.

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. Thus, a student who makes an average mark of C throughout his course of 120 semester hours will have 120 quality points, 120 credits, and a standing of one. An average mark of B will give the student 240 quality points, 120 credits, and a standing of two. 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.

Any student whose standing for the previous semester is .5 or less is put on scholastic probation; and if his standing for the next semester is less than 1.0, he may be suspended or dropped from the University. A student whose standing for any semester is .25 or less, may be dropped from the University.

Semester Reports From the Registrar

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

Mid-Semester Reports From the Adviser

On November 21 and April 4 the instructors report to the Registrar all Students whose grades fall below C. The Registrar reports such students to their advisers in order that they may hold a special conference with the students concerned.

Classification of Students

A student in any college is classified according to the number of credits and quality points earned toward a degree. To be classified as a senior for the current year, a student must have a standing of one or more and be allowed to carry sufficient work to complete his requirements for graduatoin by the close of the summer session.

To be classified as a junior, a student must have within ten credits of the normal amount of work, and no less than a standing of one; to be classified as a sophomore, he must have within ten credits of the normal amount of work and no less than a standing of one.

Classification of Courses

The courses offered by the University are classified as (a) lower division courses, numbered 1-100; and (b) upper division courses, numbered 100-199.

Yr.—Subjects so marked are year courses. Credit may not be given for less than one year's work. A final semester grade, however, is reported by the instructor.

Graduation

Responsibility of Student

Every candidate for a degree is himself responsible for meeting all requirements for graduation. No university officer can relieve him of the responsibility.

Degrees

Upon the recommendation of the faculty of the College of Liberal Arts, the University confers the degree of Bachelor of Arts. Upon the recommendation of the faculty of the College of Engineering, the University confers the degree of Bachelor of Science in Engineering. Upon recommendation of the faculty of the College of Pharmacy, the University confers the degree of Bachelor of Science in Pharmacy. Upon recommendation of the faculty of the School of Law, the University confers the degree of Bachelor of Laws. All work toward a degree must have been 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

The minimum number of credits and quality points required for graduation varies with the courses chosen, as shown in the following summary. Candidates for degrees must meet the requirements in both number and kind of credits, as outlined in the catalog for the year of matriculation, or for the year of graduation.

A student who returns to the University after an absence of five or more years, may no longer be a candidate for a degree on the basis of the catalog

under which he first entered the University, but must fulfill for graduation, all the requirements and provisions of the catalog of the year in which he re-enters the University.

Degrees	Credits Required	Quality Points Required
Bachelor of Arts—		
In all departments	120	120
Bachelor of Science in Engineering—		
In all departments	144	144
Bachelor of Science in Pharmacy	131	131
Bachelor of Laws	76	76

Residence Requirements

Candidates for degrees must spend, except as noted elsewhere, at least the last year (thirty-six weeks) or three summer sessions (ten weeks each) in residence.

The last year of work is to be construed as a year of not less than thirty semester hours of credit in the College of Liberal Arts, Engineering and Pharmacy, and twenty-four semester hours of credit in the School of Law.

Ordinarily, credit is not given for correspondence courses taken while in residence at the University.

Application For a Degree

Candidates for graduation must make formal application on forms provided by the Office of the Registrar. The Registrar will call for formal applications for graduation and have them on file not later than the end of the first week in November preceding the date of the student's graduation. The graduation fee must accompany the application.

Students completing their work at the end of the summer school must file their applications with the Registrar at the beginning of the summer session.

Presence at Commencement

A candidate must be present at commencement in order to receive his degree. Degrees are not conferred in absentia, except on special permission from the President upon recommendation of the Dean of the University.

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

Degrees With Distinction

Two grades of honors are conferred upon candidates at graduation:

1. Students who attain to a standing of 2.6 up to 3 are graduated "With High Distinction." They must have been in attendance at least three years.

2. Students who attain to a standing of 2.4 up to 2.6 are graduated "With Distinction".

A student who has been in attendance only during his last two years may also receive these honors, provided he attains to a standing of .2 greater than the above named. The amount of work is to be the basis of determining the two years' work. In Liberal Arts and Pharmacy a student completing 60 semester credits at the grade required is eligible for honors. In Law, 48 credits; and in Engineering, 70 credits.

Class Honors in Scholarship

The requirements for class honors in scholarship are as follows:

1. The student must have removed all condition grades of "E" and grades of incomplete.

2. He must have been registered for at least fourteen hours of work per semester, exclusive of physical education, in Liberal Arts, Pharmacy and Engineering, or for at least twelve hours in the School of Law.

3. For freshman honors the student must secure an average of 2 points per credit hour; for sophomore honors, an average of 2.3 points; for junior honors or first and second years in Law, an average of 2.4 points; for senior honors or third year in Law, an average of 2.5 points.

Freshmen reaching the required standard of excellence receive Honorable Mention; sophomores, juniors, and seniors are recognized as Sophomore, Junior, and Senior Scholars, respectively. Senior honors are awarded at commencement; freshman, sophomore, and junior honors at an honor assembly which is held in the fall.

Bureau of Recommendations

The University maintains a Bureau of Recommendations, primarily for the purpose of assisting capable teachers in securing desirable positions and also of cooperating with school officials in engaging competent teachers. A fee of $1.00 is required for registration. Communications with reference to teachers and positions should be addressed to the Registrar, Valparaiso University, Valparaiso, Indiana.

Reservation of Right to Amend Rules and Regulations

The University reserves the right to amend its rules and regulations within the limits of those administrative and academic principles which are commonly accepted by recognized colleges and universities.

PART IV

THE COLLEGE OF LIBERAL ARTS

The College of Liberal Arts

Classification of Courses

The courses offered by the College of Liberal Arts are classified as (a) lower division courses, numbered 1-99; and (b) upper division courses, numbered 100-199.

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 towards 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 limited 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.

Degree Requirements of the College of Liberal Arts

In order to realize, in part, the objectives of the College of Liberal Arts, Valparaiso University holds the student to the following degree requirements:
A. In the lower division:

1. *Religion: 6 semester credits.
   Freshman year: The Bible, 3 cr.; The Life and Teachings of Jesus, 3 cr.
2. English: 12 semester credits.
   †Freshman year: Freshman Composition, 6 cr.
   Sophomore year: Survey of English Literature, 6 cr.
3. Foreign Language; 6-12 semester credits.
   The student must complete at least six semester credits of work above the first year level.

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

†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.

4. Social Science: 12 semester credits.
   Two courses of a full year each are to be chosen from two of the following fields: economics, education and psychology**, geography, history, philosophy**, political science, and sociology.
5. Natural Science: 16 semester credits.
   Two courses of a full year each are to be chosen from two of the following fields: botany, chemistry, mathematics, physics, physiography-geology, and zoology.
6. Health.
   Freshman year: Individual Health Program.

B. In the upper division :

1. *Religion: 2 semester credits.
   Senior year: The Church and Her Work, 2 cr.
2. Major: 24-36 semester credits.
   The student must complete a major of from 24 to 36 semester credits in one field. The credits applied on a major should be predominantly on the upper division level.
3. Minor: 12-16 semester credits.
   The student must complete, in addition to his major, a minor of from 12 to 16 semester credits in one field.
   Except by special permission of the Committee on Admissions and Degrees, a student may not offer for graduation more than 36 semester credits in any one field.
   More specific requirements for majors and minors are given in the descriptions of the various departmental offerings.

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 120.

Approval of Student's Schedule

The schedule of courses of juniors and seniors must have the written approval of the adviser under whose guidance the student is doing his major work. Not only this work, but also all electives should be chosen with the advice and approval of the major professor.

Special Curricula Advisers

The Head of the Department of Biology acts as adviser for *pre-dental* and *pre-medical* students; the Head of the Department of English Language and Literature for students preparing for work in *library* and *journalism*. A special adviser is appointed for *pre-law* students. The Head of the Department of Education and Psychology acts as adviser for students preparing to teach.

Independent Work Courses

A junior or senior, if his particular excellence in the department warrants it, may with the approval of his major professor and the Dean of the College of Liberal Arts register for an independent work course in his major or minor subject. Such a course is characterized by special assignments for study, weekly or bi-weekly conferences, reports and semester papers of some sustained effort. Credit for such courses may be granted to an amount of not more than twelve semester credits. At the end of the semester a written report of the work in such a course, or a paper representing part of the work must be read before the staff of the department. A comprehensive oral examination by the staff may be included if the head of the department so elects.

Independent work courses are defined by their larger scope, wider content, and by a more rigorous demand of reading, writing, and thinking.

**Not open to freshmen.
*This requirement applies to Lutheran students only.

Pre-Professional Programs

The entrance requirements for these courses are those of the College of Liberal Arts.

Pre-Legal Program

Two years of work, or 60 semester credits and 60 quality points, in the College of Liberal Arts of this University or of an approved college are necessary for admission to the School of Law. Credit earned in non-theory courses covering military science, hygiene, domestic arts, physical education, vocal or instrumental music, or in other courses without intellectual content of substantial value may not be counted toward the pre-legal program. Also courses taken by correspondence or in extension may not be counted toward this program. Students who take the preliminary years in this University may conform to the regular requirements for freshmen and sophomores and take such additional courses as may be suggested by the adviser to pre-legal students. See under the Department of Social Science.

Pre-Medcial Program

A three-year program preparing for the study of medicine is offered under the direction of the Department of Biology. This course follows the requirements of the American Medical Association and Association of American Medical Colleges for entrance to all class A medical schools, except those requiring a degree for entrance.

Valparaiso University is on the list of "Approved Colleges of Arts and Sciences compiled by the Council on Medical Education and Hospitals of the American Medical Association."

Preparation for Dentistry

Two programs are followed by schools of dentistry, namely, the one-four program and the two-four program. The former requires one year and the latter two years of pre-dental work in the College of Liberal Arts, followed by four years in a school of dentistry. A rapidly increasing number of dental schools are adopting the two-four program and thus require sixty to sixty-four credit hours of pre-dental work.

Combined Programs

Liberal Arts—Medicine

Students may do the entire work of their senior year in approved schools of *medicine*, and receive the degree of Bachelor of Arts from this University under the following conditions:

(*1*) The junior year is to be completed in the College of Liberal Arts at this University. (*2*) The program selected and the school in which the work is to be completed must be recorded with the Registrar upon a blank furnished by him on or before May 1. (*3*) All prescribed subjects in preparation for work at other schools, inclusive of any group requirements of this University, must be met before the student enters the professional school. Pre-medical students will meet the group requirements of their special program. (*4*) All requirements regarding the major subjects are to be satisfied before the bachelor's degree is granted. (*5*) An application for graduation must be made and the usual graduation fee paid.

An official transcript of the year's work (thirty semester hours or its equivalent), must be sent to the Registrar at the close of the year. Upon receipt of such transcript the degree of Bachelor of Arts may be granted as if the work had been completed in residence in this University.

Six-Year Combined Liberal Arts—Law Program

A student may obtain in six years both the Bachelor of Arts and the Bachelor of Laws degrees. The program requires the completion of three full years of academic work in any department of the College of Liberal Arts, before the

course in the School of Law is begun. The approved outline of this Arts-Law program is listed in the offerings of the Department of Social Science.

A student who has been in residence at this University for his junior year, and has been careful to confine himself to the prescribed subjects and group requirements during his three years in the College of Liberal Arts, and has secured 92 semester credits and 92 quality points, may be given the degree of Bachelor of Arts upon passing the prescribed examinations for the entire first-year law work. The student must, however, earn in the first year of law at least 28 semester credits and 28 quality points. No student on this combined program can be graduated with less than 120 semester credits and 120 quality points. He may then complete the requirements for the degree of Bachelor of Law by two years of additional work in the School of Law.

The entrance requirements for this program are those of the College of Liberal Arts. The A.B. degree is granted upon the joint recommendation of the faculty of the College of Liberal Arts, the LL.B. upon the recommendation of the faculty of the School of Law at the end of the third year of law.

The Department of Biology

Professor Elliott, Head, Assistant Professor Kaufmann,
Mr. Christiansen and Miss Neff

The work in this department provides a means of obtaining both a general cultural appreciation and a detailed special knowledge of plants and animals. The aim of the beginning courses is to furnish the basis for all advanced work but more specifically to give a general knowledge and appreciation of animal and plant life. Succeeding courses establish the foundation for practical work in biology and related branches, such as pharmacy, medicine, dentistry, nursing and teaching and give preparation for graduate and research work.

The location of the University in the lakes and dunes region of northwestern Indiana makes available a great variety of native plants and animals characteristic of lakes and streams, sand dunes, open prairie, and forest. The nearness to Chicago affords opportunity for field observation and study at such places as the Field Museum of Natural History, the Shedd Aquarium, the Lincoln Park and Riverside Park Zoological Gardens, the Washington Park Botanical Garden and numerous hospitals and clinics.

Biology Club

Students majoring in biology or registered on the pre-medical, pre-dental, and pre-nursing programs are eligible for membership in the Biology Club. The purpose of the Biology Club is to promote interest in and acquaintance with the advances in the biological sciences. Members of the organization are given an opportunity to cultivate the ability to organize and present scientific materials on the student programs. Frequent addresses by doctors, dentists, and other specialists in the biological field are given throughout the year. The club meets the fourth Tuesday evening of each school month.

Biology Major

A major in biology consists of at least 24 credit hours and must include Botany and Zoology 51 and 52 and Zoology 120. Zoology 115 is also recommended. Students planning to do graduate work in either Botany or Zoology should take the additional work necessary for admission to the graduate school.

Biology Major for Teachers

The following courses constitute the minimum major for those planning to teach biology in the secondary schools: Botany 51 and 52, Zoology 51, 52, 115 and 120. For other majors including biology as part of the work, see the bulletins on teaching requirements of the various states.

Botany

Mr. Elliott, Mr. Kaufmann

The courses in botany aim (a) to give the student a knowledge of the fundamental botanical laws and problems and hence are of considerable cultural value. In particular, they (b) give necessary botanical training for teachers of botany and biology.

Minor in Botany

A minor in botany consists of sixteen credit hours and must include Botany 51 and 52.

Courses in Botany

51. General Botany Sem. 1. 2+4, Cr. 4.
A preliminary study of the principal trees and shrubs, together with a general study of the cell, root, stem and leaf; followed by a brief survey of the algae, fungi, liverworts, and mosses.
Laboratory fee, $5.00; deposit, $1.00. Kaufmann.

52. General Botany Sem. 2. 2+4, Cr. 4.
A survey of the peteriodophytes and spermatophytes. Topics studies: representative forms with emphasis upon the vascular types, their floral parts; development; and economic importance. Also field and laboratory study of the spring flora.
No prerequisite.
Laboratory fee, $5.00; deposit, $1.00. Kaufmann.

80. Local Flora Sem. 2. 1+2, Cr. 2.
The aim of this course is to acquaint the student with our native trees, shrubs, and flowers in order to develop a first-hand knowledge and deeper appreciation of nature. Particularly for teachers of biology and nature study.
Laboratory fee, $2.00; deposit, $1.00. Kaufmann.

120. Plant Histology, Microtechnique and Methods Sem. 1. 2+4, Cr. 4.
For a description of this course and prerequisites see Zoology 115.
Laboratory fee, $5.00; deposit, $1.00. Elliott.

140. Bacteriology Sem. 2. 2+4, Cr. 4.
A course in general bacteriology, embodying a study of the nature and botanical relationship of bacteria and other micro-organisms; their relation to decomposition, food preservation, and disease.
Prerequisite: Eight credit hours in botany, zoology, or chemistry.
Laboratory fee, $5.00; deposit, $1.00. Kaufmann.

Zoology

Mr. Elliott, Mr. Kaufmann

The work in zoology is designed (a) to give the student an appreciation of the animal life with which he daily comes in contact; (b) to provide the necessary training for teachers of zoology and biology; (c) to prepare students who wish to enter the fields of medicine, dentistry, nursing and pharmacy; and (d) to prepare students for graduate work.

Major in Zoology

A major in zoology consists of at least twenty-four credit hours, and must include Zoology 51, 52, 105, and 115.

Minor in Zoology

A minor in zoology consists of sixteen credit hours and must include Zoology 51 and 52.

Courses in Zoology

51. General Zoology Sem. 1. 2+4, Cr. 4.
A study of the structure, composition, and activities of protoplasm, followed by a survey of the invertebrate animals. Lectures and discussions on the habitats, structure, and economic relations of members of the various groups. Laboratory and field study of representative forms
Laboratory fee, $5.00; deposit, $1.00. Elliott.

52. General Zoology Sem. 2. 2+4, Cr. 4.
A survey of the vertebrate groups of animals, with emphasis on morphology, life history, habits, distribution, and economic importance. Laboratory study

of representative forms; study of birds during their migration period; field observation and collection trips will be made to adjacent regions.
No prerequisite.
Laboratory fee, $5.00; deposit, $1.00. Elliott.

75. Elementary Physiology Sem. 1. 3+3, Cr. 4.
This course is especially designed to meet the needs of the students in pharmacy. Not credited toward a major.
Laboratory fee, $3.00; deposit, $1.00. Kaufmann.

105. Vertebrate Anatomy Sem. 1. 2+4, Cr. 4.
A comparative study of the morphology of vertebrate animals. Lectures, discussions, collateral readings, and laboratory dissection of the principal types, especially shark, necturus, turtle, and cat.
Prerequisite: Zoology 51 and 52.
Laboratory fee, $5.00; deposit, $1.00. Elliott.

110. Vertebrate Embryology Sem. 2. 2+4, Cr. 4.
Lectures and discussions on the embryology of vertebrates in general, with special emphasis on that of birds and mammals. Laboratory work deals with chick and pig.
Prerequisite: Zoology 51 and 52.
Laboratory fee, $5.00; deposit, $1.00. Elliott.

115. Anatomy and Physiology Sem. 1. 3+4, Cr. 5.
This course deals with the fundamentals of anatomy and physiology particularly of the human body. Laboratory work dealing with the physiology of contractile tissues, circulation, respiration, digestion, nervous system, and sense organs.
Prerequisite: Zoology 51 and 52.
Laboratory fee, $5.00; deposit, $1.00. Elliott.

120. Histology, Microtechnique, and Methods Sem. 2. 2+4, Cr. 4.
A course in the preparation of zoological and botanical slides by the paraffin, celloidin, freezing, venetion, turpentine, and glycerine methods, together with some study of tissues. Zoology students will emphasize preparation of slides of frog and mammalian tissues; botany students, slides of ferns and seed plants. Majors and prospective teachers in biology will be given instruction in the preparation of a teaching set of slides. Students preparing for medicine, dentistry, and nursing will in addition be given instruction in special technique.
Prerequisite: Botany or Zoology 51 and 52.
Laboratory fee, $5.00; deposit, $1.00. Elliott.

155. Public Health Sem. 1. 3+0, Cr. 3.
A course dealing with such topics as public health agencies and organizations, causes of disease, nature and control of communicable diseases, vital statistics, nostrums and biologic products.
Prerequisite: Botany 140.
Demonstration fee, $1.00. Kaufmann.

191. The Teaching of Biology Sem. 1. 2+0, Cr. 2.
The aims and methods of teaching biology, botany and zoology in the secondary schools.
Prerequisite: Ten credits in botany or zoology.
Demonstration fee, $2.00; deposit, $1.00. Elliott.

196. Biological Problems Either Sem., Cr. 1-3.
Special problems, under the direction of members of the department, for junior and senior students majoring in biology or zoology.
Prerequisite: Sixteen credits in biology or zoology.
Laboratory fee, $1.00 per credit hour; deposit, $1.00.
Elliott.

Health Education

Mr. Christiansen, Miss Neff

1-2. Individual Health Program for Men and Women Yr. Each semester. 1+0, Cr. 0.
Includes the study of the fundamentals of personal and public health. The aim of the course is to implant habits of health and clean living and to create a wholesome attitude toward individual, family, and school. Class hours or conference periods for the discussion of health reports, charts, correction or remedial defects, absences due to illness, healthful mental growth, and healthful development of the emotional and social life of the individual.
Two sections for women: Neff.
Two sections for men: Christiansen.

Preparation for Medicine

Professor Elliott, Adviser

Students expecting to continue their work in a medical school should acquaint themselves early in their course with the general pre-medical require-

ments and special requirements of the school of their choice. In this connection it is well to consult their adviser at the first opportunity.

The pre-medical program outlined below enables the student: (1) to meet the requirements of the approved medical schools; (2) to gain a knowledge of the basic sciences and those subjects which are the foundation of the medical sciences; (3) to possess a liberal culture by a study of the humanities which are recommended by the American Medical Association and medical schools as desirable electives; and (4) to meet the major and other requirements for the degree of Bachelor of Arts. For details see Combined Programs, Liberal Arts-Professional Courses.

Deviations will be made in the third year when necessary to meet the special additional requirements of the different medical schools. Therefore, the student is urged to consult his adviser concerning these requirements not later than the first semester of the sophomore year.

Prior to admission to an approved school of medicine the student must take the aptitude test prescribed by the Association of American Medical Colleges. A fee of one dollar must be paid at the time the student takes the test. This fee will be forwarded with the examination to the committee of the association in charge of the test.

The mere completion of the work of the pre-medical program outlined does not guarantee admission to a medical school. The quality of the work done and the ability and fitness of the student for the work of the medical course will be important determining criteria in recommending applicants for admission to approved medical schools.

The Pre-Medical Program

Freshman Year

		First Semester	Cr.			*Second Semester*	Cr.
Zool.	51.	General Zoology	4	Zool.	52.	General Zoology	4
Chem.	51.	General Chemistry	4	Chem.	52.	General Chemistry	4
Eng.	1.	Freshman Composition	3	Eng.	2.	Freshman Composition	3
Rel.	1.	The Bible	3	Rel.	2.	Life & Teach. of Jesus	3
		German or French	3			German or French	3
			17				17

Sophomore Year

		First Semester	Cr.			*Second Semester*	Cr.
Zool.	105.	Vertebrate Anatomy	4	Zool.	110.	Vertebrate Embryology	4
Chem.	101.	Organic Chemistry	5	Chem.	102.	Organic Chemistry	4
Phys.	51.	General Physics	4	Phys.	52.	General Physics	4
		German or French	3			German or French	3
				Chem.	62.	Qualitative Analysis	2
			16				17

Junior Year

		First Semester	Cr.			*Second Semester*	Cr.
Zool.	115.	Anatomy and Phys.	5	Zool.	120.	Histology and Micro-technique	4
Chem.	107.	Qualitative Analysis	4	Bot.	140.	Bacteriology	4
Sociol.	51.	Introduction to the Study of Human Society	3	Sociol.	52.	Introduction to the Study of Human Society	3
Psy.	51.	General Psychology	3	Rel.	151.	**The Church and Her Work	2
		*Elective	1 or 2			*Elective	3 or 4
			16 or 17				16 or 17

*If no additional specific requirements are demanded by the medical school to which application is to be made, the student is urged to select in his third year courses from the following subjects recommended as desirable electives: English (additional), economics, history, political science and mathematics.

**For Lutheran students.

Preparation for Dentistry

Two programs are followed by schools of dentistry, namely, the one-four program and the two-four program. The former requires one year and the latter two years of pre-dental work in the College of Liberal Arts, followed by four years in a school of dentistry. A rapidly increasing number of dental schools are adopting the two-four program and thus require sixty to sixty-four credit hours of pre-dental work.

The first two years of the pre-medical program as outlined meets the requirements of most dental schools. Of the courses designated for the sophomore year, physics and organic chemistry (4 hours) are generally required by the dental schools. The other courses of the sophomore year are required in many schools or recommended as desirable electives. Other recommended electives are courses chosen from business management and economics, mathematics, philosophy, political science, and sociology. A few dental schools require subjects not included in the program as outlined, such as botany, drawing, or mathematics. Deviation from the program of the sophomore year will therefore be necessary. Students should by all means consult the adviser concerning the requirements before registering for the work of the sophomore year.

Combined Liberal Arts-Nursing Program

The College of Liberal Arts of Valparaiso University grants the degree of Bachelor of Arts to students who successfully complete three years of work in that college and twenty-seven months in an approved School of Nursing. The following specific requirements must be met: (a) The courses of the pre-medical program, except Chemistry 102 and 107 and Physics 51 and 52. (b) Electives, including Survey of English Literature, to make a total of ninety-four credit hours.

The Department of Business Management and Economics

Assistant Professor Skinner, Head, Mr. Graebner, Mr. Zimmerman

Aims

The aim of the Department of Business Management and Economics is the development of business students and trained executives. The work of these scholars is directed toward a study of business in its social setting; toward an understanding of its basic processes, its institutional life, its driving forces; and toward an evaluation of its results.

Since the successful executive must begin at the bottom, students are given such training as will enable them to make good in routine positions, but the chief effort is always directed toward the goal of leadership, and studies are selected and taught with that objective in view.

Positions

The department does not assume responsibility for securing positions for its graduates, but it does extend every possible aid toward placing its students.

Commerce Club

The Commerce Club is an organization of the students in the Department of Business Management and Economics.

The aims of the club are to act as a correlating medium between the theory of the classroom and the practical aspects of the modern business world, as well as to organize the students in the department as a separate entity in

the school, and to serve as a medium to bring the members into closer contact with one another.

Its functions are carried out by securing the services of outstanding men in the business world, and by making periodic inspection trips into the surrounding industrial region. Monthly meetings are held.

All those working out majors and minors in the department are expected to become members.

Business Management

Mr. Skinner and Mr. Graebner

Major

A major consists of a minimum of twenty-four or a maximum of thirty-six credit hours exclusive of Business Management 3, 4, 5, 6, 41, and 42.

Students who are taking a twenty-four hour major may count three hours of Geography towards their majors. Students who are taking a thirty-six hour major may count six hours towards their major. Students are urged to take one or more courses in Geography.

Students having a major in business management in view must earn (a) in their freshman year, six credits in accounting, that is, Business Management 41, 42—Elementary Accounting; (b) in their sophomore year, six credits in Economics 51, 52—Principles of Economics, and six credits in Business Management 51, 52 or 102. In the freshman year, Business Management 41, 42 is substituted for Religion 1, 2. The required work in religion is, therefore, postponed until the sophomore year.

Students should also earn two credits in typewriting, that is, Business Management 3 and 4.

Majors for Teachers

Commercial teachers must select one of the following options:

First Option: The 35 hours of required credits should include the following: Stenography, Typewriting, Accounting, Business Law, Business Policies, Geography, Principles of Economics.

Second Option: The 30 semester hours of required credits should not include stenography and typewriting.

Minor

A minor consists of twelve credit hours, exclusive of B. M. 3, 4, 5, 6, 41, 42 and Econ. 51 and 52.

Chemistry—Commerce

Men who desire to train for such positions as business manager, purchasing agent and technical secretary in a chemical industry require a knowledge of business management and chemistry. The major in chemistry-commerce includes twenty-four credit hours in business management and economics and twenty-four credit hours in chemistry.

Courses in Business Management

41. Elementary Accounting Sem. 1. 3+0, Cr. 3.
Consideration is given to the fundamental principles of accounting through their application to single proprietorships, and corporations.
Credit withheld until Business Management 42 is successfully completed.
Open to freshmen who have had less than two years of bookkeeping in high school. Skinner.

42. Elementary Accounting Sem. 2. 3+0, Cr. 3.
Continuation of Business Management 41
Prerequisite: Business Management 41 or the equivalent.
Skinner.

51. Principles of Accountancy Sem. 1. Cr. 3.
This course considers the development and application of accounting theory; study of various statements; the principles of valuation; method of determining and recording depreciation; accounting for sinking fund, reserves, secret

reserves, surplus, undivided profits, dividends, consolidations, branch house accounting, liquidation and other problems.
Prerequisite: Business Management 42. Skinner.

52. Cost Accounting Sem. 2. Cr. 3.
This course considers the general principles of the subject and shows the importance of cost records as an integral part of a complete system of records.
Prerequisite: Nine credits in accounting.
Alternates with Business Management 102. Skinner.

102. Principles of Auditing Sem. 2. Cr. 3.
Treats of the application of accounting theory and practice to the preparation and procedure followed in performing the various steps in balance sheet, detailed and special audits.
Prerequisite: Nine credits in accountancy.
Alternates with Business Management 52.
[Not offered 1935-1936.]

106. Business Finance Sem. 2. Cr. 3.
This subject considers the problems of financing a private business; methods of finance, stocks, bonds, notes, short and long term financing, promotion, financial standards, business and the banks.
Prerequisite: Business Management 42, and Economics 52.
Graebner.

107. Statistics Sem. 1. Cr. 3.
This course considers the elementary principles of the statistical method and the application of the principles of statistics to business and economic problems. The laboratory material consists of exercises and problems.
Prerequisite: Business Management 42, and Economics 52.
[Not offered 1935-1936.]

121. Principles of Marketing Sem. 1. Cr. 3 .
The subject matter is based on a study of market forces, structures, functions, trade channels, the development of marketing methods, middlemen, the organized produce exchanges, speculation, chain stores, mail order houses, price policies, market analysis, and the coordination of market policies.
Prerequisite: Economics 52. Graebner.

122. Market Administration Sem. 2. Cr. 3.
This course includes a study of the development of sales organizations, market analysis, policies, sales methods, survey of literature of selling and purchasing, and ethics of salesmanship.
Prerequisite: Business Management 121. Graebner.

131. Business Law Sem. 1. Cr. 3.
Business law deals with contracts, agency, negotiable instruments, corporations, partnerships, sales, personal and real property, mortgages, bailments, insurance, wills, and administration.
Prerequisite: Junior standing. Skinner.

132. Business Law Sem. 2. Cr. 3.
Continuation of Business Management 131.
Prerequisite: Business Management 131, or the equivalent.
Skinner.

151. Business Policies Sem. 1. Cr. 3.
A course planned to correlate the subject matter of the other courses offered in this department by the application of the principles of business to specific problems, in office management, finance, sales, purchasing, production, personnel, and controllership. Graebner.

191. The Teaching of Commercial Subjects Sem. 1. Cr. 2.
A teacher's course. The high school commercial curriculum: methods in teaching business administration, commercial geography, business English, commercial arithmetic, accounting, business law, shorthand, typewriting, and office training.
Prerequisite: Senior standing in business management and education. Given upon demand. Skinner.

199. Seminar Cr. 1-3.
Topics chosen for study are to be mutually agreed upon by the individual students and the head of the department. Hours and credits are to be arranged.
Open to senior students with no less than B standing.
Skinner and Graebner.

Courses in Secretarial Work

Mr. Zimmerman

3. Beginning Typewriting. Each semester. 0+10, Cr. 1.
This course is open to all students in the University. Credit withheld until Advanced Typewriting is completed.
Typewriting fee, $4.50. Zimmerman.

4. Advanced Typewriting. Each semester. 0+10, Cr. 1.
Continuation of course 3. Credit withheld until 35 words per minute test has been passed.
Typewriting fee, $4.50. Zimmerman.

5. Beginning Stenography. Sem. 1. 0+5, Cr. 1.
A thorough study and practice of Gregg Shorthand. Open to all students. Credit withheld until Advanced Stenography is completed.
Zimmerman.

6. Advanced Stenography and Secretarial Training. Sem. 2. 0+5, Cr. 2.
An advanced course which places special emphasis upon development of speed, phrasing, transcribing, correct business English, and the general duties of a private secretary. This course is correlated with advanced typewriting.
Zimmerman.

Courses in Economics

Mr. Skinner and Mr. Graebner

51. Principles of Economics Sec. 1. Cr. 3.
This is a basic course designed to acquaint the student with fundamental economic concepts. Credit withheld until Economics 52 is successfully completed. Two Sections. Graebner.

52. Principles of Economics Sem. 2. Cr. 3.
Continuation of Economics 51.
Prerequisite: Economics 51. Two Sections. Graebner.

141. Labor Problems Sem. 1. Cr. 3.
This is a survey course dealing with: (1) the history of labor and the main forces underlying the labor problem, (2) the approach of workers and employers to the labor problem, (3) the development of trade unions and collective bargaining, and (4) social control.
Alternates with Economics 143. Skinner.

143. Business and Government Sem. 2. Cr. 3.
The regulation of public and private business. The regulation of competition. The development of the principles of valuation, rate making, service and capitalization of public utilities. Recent proposals for increased governmental control and ownership of industry. Cooperation between government and business, public activities of business organization; elements of a sound national policy towards business. Graebner.

145. Economic History of the United States Sem. 1. Cr. 3.
A general survey of the leading facts since the settlement of the Colonies with greater emphasis being given to the period since 1860. The course centers about the analysis of the methods and institutions which have been developed in endeavoring to obtain a more complete satisfaction of economic wants.
Graebner.

152. Money and Banking Sem. 2. Cr. 3.
Consideration is given to theories and principles in money and banking; the relation of the medium of exchange to the processes by which changes in price level and business conditions are brought about.
Prerequisite: Economics 52.
Alternates with Economics 162. Skinner.

162. Investments Sem. 2. Cr. 3.
An analysis of the general principles of investment; classification of securities; methods of protection; sources of information and general work of the investment house.
Prerequisite: Economics 52.
Alternates with Economics 152.
[Not offered 1935-1936.]

The Department of Chemistry

Associate Professor Thrun, Head, Associate Professor Harwood, Mr. Lien.

Aims

The work of this department is arranged to meet the needs of students who are preparing (a) to enter the chemical profession or take up graduate studies in chemistry; (b) to become physicians, pharmacists, dentists, or chemical engineers; (c) to teach chemistry in secondary schools or colleges.

Chemistry Club

The Chemistry Club of Valparaiso University was organized November 16, 1932, to stimulate interest in the chemical science, to further an appreciation of research, to elevate the standard of scholarship, and to inculcate the ideals of cooperation among the students. The club is a member of the Students' Science Clubs of America.

The monthly meetings are conducted as much as possible like the section meetings of the American Chemical Society. Usually a chemist from an industry or another institution presents a paper of general interest.

All students are invited to these meetings. Associate membership is limited to those who have four credits with a grade of C in a chemistry course. Full membership and the right to wear a key is open to the student who has earned 14 credits in chemistry with a grade of A or B or upon earning 8 credits in second year chemistry with an average grade of A or B. To retain full membership an average grade of A or B in chemistry courses must be maintained.

Chemical Engineering

For the two-year curriculum in chemical engineering, see the College of Engineering.

Chemistry—Commerce

Men who desire to train for such positions as business manager, purchasing agent and technical secretary in a chemical industry require a knowledge of business management and chemistry. The major in chemistry-commerce includes twenty-four credit hours in business management and economics and twenty-four credit hours in chemistry.

Majors

Two majors are provided for. To complete the requirements for the professional major 32 credits in chemistry and credits for one year each of mathematics and physics should be earned.

The major of 24 credits should include Qualitative Analysis, at least one semester of Organic Chemistry, and Volumetric Analysis. Bacteriology may be counted toward this major in chemistry.

The major for teachers consists of at least 20 credits which must include General and Inorganic Chemistry, Qualitative Analysis, and at least one semester of Organic Chemistry. Volumetric Analysis is recommended.

Minor

A minor consists of 14 credits. In addition to Qualitative Analysis either Organic Chemistry or Volumetric Analysis should be elected.

Courses in Chemistry

51. General Chemistry Sem. 1. 3+2, Cr. 4.
Fundamental concepts, laws, and theories are studied by means of lectures, oral quizzes, and experiments. Those having no or poor high school training in chemistry will come for an extra period.
Laboratory fee, $6.00; deposit, $4.00.
Two quiz sections: Thrun.

52. Inorganic Chemistry Sem. 2. 3+2, Cr. 4.
A continuation of Chemistry 51. The properties of the atoms are studied in the light of the most recent knowledge. Important chemical reactions and the principles of qualitative analysis are discussed. As the occasion warrants the importance of chemistry in our civilization is discussed.
Laboratory fee, $6.00; deposit, $4.00.
Two quiz sections: Thrun.

54. Inorganic Chemistry Sem. 2. 3+0, Cr. 3.
The same as 52, but no laboratory work is included. Usually accompanied by a course in Qualitative Analysis.
Prerequisite: Chemistry 51. Thrun.

56. Inorganic Chemistry Sem. 2. 3+3, Cr. 4.
The same as 52, with three hours of laboratory work in Qualitative Analysis.
Laboratory fee, $6.00; deposit, $4.00. Thrun.

60. Qualitative Analysis Sem. 2. 0+9, Cr. 3.
Study of separation and identification of all important cations and anions. To accompany Chemistry 54.
Prerequisite: Chemistry 51.
Laboratory fee, $10.00; deposit, $4.00. Lien.

62. Qualitative Analysis Sem. 2. 0+6, Cr. 2.
Study of separation and identification of all important cations and anions.
Prerequisite: Chemistry 52 or 56.
Laboratory fee, $6.00; deposit, $4.00. Lien.

101. Organic Chemistry Sem. 1. 3+6, Cr. 5.
A study of the aliphatic carbon compounds is made.
Prerequisite: Chemistry 52.
Laboratory fee, $7.50; deposit, $4.00. Harwood.

102. Organic Chemistry Sem. 2. 2+6, Cr. 4.
Continuation of Chemistry 101. Aromatic compounds are studied.
Laboratory fee, $6.00; deposit, $4.00. Harwood.

109. Quantitative Analysis, Volumetric Sem. 1. 2+6, Cr. 4.
Discussion, problems, and laboratory work comprising the following: Analytical weighing and calibration of weights and measuring vessels; normality and titre of standard solutions; pH, activity coefficients, indicators, buffers; volumetric precipitation methods; oxidation and reduction methods and indicators; principles of colorimetric analysis; one simple gravimetric procedure.
Prerequisite: Qualitative Analysis.
Laboratory fee, $6.00; deposit, $4.00. Thrun.

110. Quantitative Analysis, Gravimetric Sem. 2. 1+6 or 9, Cr. 3 or 4.
Problems of gravimetric analysis and solubility product; purity of precipitates. Inorganic samples are analyzed. One electrolytic analysis is performed.
Prerequisite: Qualitative Analysis.
Laboratory fee, $6.00; deposit, $4.00. Thrun.

138. Bio-Chemistry Sem. 2. 2+3, Cr. 3.
The chemistry of proteins, carbohydrates, and fats, and the changes these undergo during processes of digestion and metabolism; brief consideration of enzymes and vitamins. Special emphasis is placed upon the application of colloid chemistry to problems in bio-chemistry.
Prerequisite: Chemistry 101 and 109.
Laboratory fee, $7.50; deposit, $4.00. Thrun.

157. Industrial Chemistry Sem. 1. 2+0, Cr. 2.
The chief chemical industries are studied.
Prerequisites: Chemistry 102 and 109.
Alternates with Chemistry 184.
[Not offered 1935-1936.]

170. Special Problems in Chemistry Either semester. Cr. 2 to 5.
A course for seniors in chemistry. Each student attacks an elementary research problem, first by looking up the literature in Chemical Abstracts and other sources, then in the laboratory. A written report is required.
Laboratory fee to be determined by the department.
Thrun and Harwood.

184. Elementary Physical and Theoretical Chemistry Sem. 2. 3+0, Cr. 3.
The most essential theories and principles underlying the science of chemistry, such as chemical equilibria, velocity of reactions, and the elements of thermodynamics and entrophy are studied.
Prerequisite: Physics 52 or 62. Permission of instructor required before electing the course.
Alternates with Chemistry 157.

191. The Teaching of Chemistry Cr. 2.
A teacher's course. The subject matter of the high school course with methods of presentation, including laboratory demonstrations and reference reading. Problems relating to laboratory construction and equipment; standard tests.
Prerequisite: Chemistry 101.
[Given on demand.]

The Department of Education and Psychology

Assistant Professor Lindberg, Head

Purpose

Work in this department is integrated toward the following purposes:

1. To stimulate the ideal of Christian culture and service in the field of Education.

2. To meet the professional needs of the students preparing to teach in the secondary schools.

3. To qualify students for a Bachelor of Arts degree with a minor in Education.

Accreditment

The College of Liberal Arts is approved by the State Board of Education of Indiana as a class "A" standard college for teacher training. The College of Liberal Arts offers the following teacher training curricula: (1) four-year curricula leading to regular high school teachers' licenses in English, French, German, mathematics, social studies, science, music, and commerce; (2) four-year curricula leading to special high school teachers' licenses in commerce and music.

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

Courses taken in the College of Liberal Arts may also be used in obtaining teachers' certificates in other states subject to the individual certification requirements of those states.

Organization of Curricula

Students who expect to teach in the secondary schools of Indiana should note the license requirements as published in the Indiana Educational Bulletin Number 94 (Revised 1932). All students who expect to teach in secondary schools of other states should consult with the Head of the Department of Education and Psychology concerning adjustments in programs of study to meet individual state certification requirements. Copies of the current certification requirements of all states are on file in the office of this department.

Need for Additional Teaching Subjects

Most beginning high school teachers find their first employment in a small city or consolidated school. Teachers in these schools are, as a rule, required to teach at least two, and possibly three or four, subjects. This fact emphasizes the need for organizing the period of teacher training to the end that, upon graduation, the student will be qualified to receive certification in at least two and, if possible, three or four major subject groups. The adviser in Education should be consulted early in the student's period of professional choice in order that the most profitable arrangement of courses may be effected. It is generally advisable that students who are working toward a Special High School Teacher's License should also plan their curricula so that they will be able to secure a license, not only in the special subject, but in another teaching subject as well.

Supervised Teaching

Arrangements are maintained with the Board of Education of the Valparaiso Public Schools for supervised teaching in its high school. Similar arrangements are also made with selected county schools when the need arises.

The general supervision of practice teaching is assumed by the Director of Supervised Teaching, but the class work is under the direct supervision of critic teachers. Student teachers are, after a period of directed observation, placed in immediate charge of classes and are responsible for the successful progress of the work. This work, as a rule, includes the responsibility for instruction, management, and grading of the class.

Students desiring to enroll in this course must have a grade point average of at least 1.5 in the subject in which supervised teaching is to be done and also in all education and psychology courses taken prior to supervised teaching. Before students enroll for supervised teaching in a high school subject they should have completed at least fifteen semester hours of credit in that subject and, in addition, be recommended by the head of the department in charge of the subject to be taught. Students must make application to enroll for supervised teaching on forms which will be furnished by the Department of Education and Psychology.

The Education Club

This department has, for a number of years, sponsored and encouraged the work of the Education Club. Its membership is made up of students enrolled in classes in education and psychology or of students whose interests find expression in the work of the club. The purpose of the organization is to unite in fellowship those who plan to teach, or who are interested in the various phases of human psychology, in a further study of problems which supplement regular classroom activity. To this end the club sponsors monthly programs to which it invites speakers of renown who are specializing in limited phases of education and psychology.

Recommendation for License

The mere completion of the prescribed courses outlined in the Department of Education does not guarantee that the student will be recommended for a teaching certificate. The quality of the work done, and the ability and personality of the student for the teaching profession will be important determining criteria in recommending applicants for teaching certificates.

Minor

A minor consists of twelve credits and should include Psychology 51 and Public Education 62.

Courses in Secondary Education
Mr. Lindberg

62. Public Education Sem. 2. Cr. 3.
A full view of the American system of education with special emphasis upon the opportunities and responsibilities of educational workers. A required course for students in education.

114. History of Education Sem. 2. Cr. 3.
A survey of the development of educational theory and practice, beginning with the Greek and Roman periods, with the chief emphasis on the eighteenth and nineteenth century forces which have resulted in the creation of our modern American public school system. This course may be used as a substitute for practice teaching when such exemption is granted.

118. Secondary Education Sem. 2. Cr. 3.
A course dealing with the purposes of the American secondary school and the ways and means by which those purposes are accomplished. Some of the topics treated are: American and European secondary education; problems in administrative and curricular reorganization; characteristics of adolescence; techniques of guidance; purposes governing the various extra-curricular activities of the school.

121. Tests and Measurements Sem. 1. Cr. 3.
An introductory course dealing with the following problems: Historical development of the testing movement; mental, achievement, prognostic, and diagnostic tests; organization of a testing program; statistical evaluation and interpretation of the results of testing; principles governing the construction of new-type informal objective examinations and practice in constructing them.

161. Principles of Teaching in the Secondary School Sem. 1. Cr. 3.
A course dealing with the following general topics: the fundamental principles of teaching; a survey of important methods and types of teaching; problems of technique; class organization and management.

191. The Professional Academic Course in Secondary Education Sem. 1. Cr. 2.

This course is administered by the Department of Education. It is usually numbered 191 in the various departments of the College of Liberal Arts and applies to the following professional academic courses:

Biol.	191.	The Teaching of Biology.
B. M.	191.	The Teaching of Commercial Subjects.
Chem.	191.	The Teaching of Chemistry.
Eng.	191.	The Teaching of English.
French	191.	The Teaching of French.
German	191.	The Teaching of German.
Hist.	191.	The Teaching of Social Studies in the High School.
Math.	191.	The Teaching of Mathematics.
M.	109-110.	Elementary Public School Music Methods.
M.	111-112.	Appreciation of Elementary Public School Music.
M.	191-192.	High School Music Methods.
M.	193-194.	Appreciation of High School Music.
Physics	191.	The Teaching of Physics.

193-194. Supervised Teaching in Secondary School Subjects Each semester. Cr. 3.

Open only to seniors, except by special permission. The observation and practice work is done in the high school under the direction of a critic teacher and the director of supervised teaching. At least twenty class periods of observation, forty class periods of teaching, and regular conferences with the critic teacher and the director of student teaching are required.

Eligibility: See special paragraph on Supervised Teaching under the General Statement.

Fee, $10.00.

Courses in Psychology

Mr. Lindberg

51. General Psychology Sem. 1. 2+2, Cr. 3.

This course is an introduction to the general field of psychology. Emphasis is placed upon the factors which are operative in man's efforts to adjust himself to his physical and social environment. The following main topics are considered: the nature of the human organism, the genesis and motivation of behavior, organized and disorganized responses, sensory discrimination, animal and human learning, thinking, levels of achievement, social behavior, and personality. Laboratory experimentation is planned to parallel the class discussions.

Laboratory fee, $2.00; deposit, $1.00.

53. Educational Psychology Sem. 1. Cr. 3.

This course attempts to apply the principles of psychology to the problems of teaching and learning. Attention is constantly directed to the child as a developing social being that is highly capable of being controlled through proper motivation. Considerable emphasis is given to the study of experimental research dealing with the processes and products of learning.

Note: Students should have completed Psychology 51 before enrolling for the course in Educational Psychology.

102. Psychology of Adolescence Sem. 2. Cr. 3.

A careful study of the problems of growth, reaction, mentality, and personality in adolescence, together with some account of the applied aspects as exemplified in typical junior and senior high schools.

The Department of English Language and Literature

*Professor Hartung, Head, Mr. Umbach, Acting Head,
Mr. Place, Mr. Zuehlke

This department has the following objectives in its teaching: (1) the perfection of oral and written English so that the students may learn how to communicate their ideas with clarity and effectiveness; (2) the development of culture through a knowledge of the best that has been thought and written in their native tongue; (3) to teach the ways of life by living it vicariously in literature, which at its best is life; (4) to lead students by an appreciation of beauty to desire to create beauty; (5) practically, to prepare them as teachers, writers, and for advanced work in journalism and library science.

The English Club

The English Club is a name which might better describe a series of programs than a group of people since there are no officers, limited membership, or business meetings. The purpose of these programs is to bring topics of current literary interest to the attention of all the students of the University rather than that narrower group majoring in the English department. However, when a program is presened by the students, the English majors are generally selected to take part. The reason for so loose an organization is the hope that the emphasis may be placed entirely on the content of the monthly meetings and that the entire student body, faculty, and townspeople may feel more free to participate than if the club were a more exclusive departmental affair.

*On leave of absence 1935-1936.

Majors

A major consists of a minimum of twenty-four credit hours, exclusive of English 1, 2, 51, 52. All majors in this department are required to take American Literature—English 101, 102.

1. General Major.

Twnty-four hours credit distributed throughout the various courses in the English Department will be considered a general major in English. These courses will be outlined by the head of the department to fill the particular needs of the individual student.

2. Major for Teachers.

The following distribution of courses is required for a general major: (1) composition—6 credits; (2) English literature—9 credits; (3) American literature—6 credits; (4) public speaking—3 credits.

3. Major in Literature.

Twenty-four credit hours in American and English literature are required for this major. This major is advised for students who are planning to do graduate work in this field. Electives are suggested in philosophy, history, and foreign languages.

Minors

A minor consists of twelve credit hours, exclusive of English 1, 2, 51, 52.

1. Minor in Literature

Twelve credit hours are required in literature, of which six must be in American literature.

2. Minor in Journalism.

Twelve credit hours are required in courses listed under that heading. A major is suggested in literature or a social science.

Courses in Composition

Mr. Umbach, Mr. Place, Mr. Zuehlke

0. Grammar Sem. 1. Cr. 0.

All students entering the University as freshmen are required to take an examination in grammar, spelling and usage. Those who fail to pass must take this non-credit course for two hours each week in addition to English 1 to rectify deficiencies in their high school preparation by an intensive drill.

1. Freshman Composition Sem. 2. Cr. 3.

A course of the freshman constant. Theory and practice in writing exposition; the preparation of papers for advance courses; grammar review; collateral reading in autobiography and current magazines.

Six sections: Umbach, Place, Zuehlke.

2. Freshman Composition Sem. 2. Cr. 3.

A course of the freshman constant. Theory and practice in writing literary forms; wide collateral reading in the various types of literature.

121. Types of Composition Sem. 1. Cr. 2.

Study and practice in the more advanced types of composition with reference to examples from contemporary literature; special practice in writing the more difficult forms of exposition and essay.

Umbach.

122. Types of Composition Sem. 2. Cr. 2.

A continuation of English 121; practice in writing of description and narration; the study of these types in contemporary literature as models for writing. Umbach.

162. Creative Writing Sem. 2. Cr. 2.

The theory and practice of writing the short story, one-act play, or poetry. The type studied will be adapted to the personnel of the class.

Umbach.

Courses in Journalism

Mr. Zuehlke

71. News Writing and Reporting Sem. 1. 2+2, Cr. 3.

Introduction to the principles of news-reporting and news-writing; study of newspaper organization and methods; laboratory drill in copyreading, proofreading, typography, headline and make-up work; collaboration with *The Torch*.

72. ADVANCED NEWS WRITING Sem. 2. 2+2, Cr. 3.
A continuation of English 71.

141. COPYREADING AND EDITING Sem. 2. Cr. 3.
Editing newspaper copy; headline writing; rewriting; general desk work; detecting propaganda and publicity; verifying copy for accuracy; testing of purely objective and unbiased report.
Prerequisite: English 71.

142. EDITORIAL AND FEATURE WRITING Sem. 2. Cr. 3.
Editorial writing; discussion of editorial policies; special feature articles; study of the current newspaper supplements.
Prerequisite: English 71.

Courses in Literature

Mr. Umbach, Mr. Place

51. SURVEY OF ENGLISH LITERATURE Sem. 1. Cr. 3.
A course of the sophomore constant. Prose and poetry of English literature from Beowulf to the beginning of the Nineteenth Century; study of one Shaksperean play; reports on collateral reading in the drama and novel.
Three sections: Umbach, Place.

52. SURVEY OF ENGLISH LITERATURE Sem. 2. Cr. 3.
A course of the sophomore constant. Continuation of English 51; prose and poetry of English literature from the beginning of the Nineteenth Century to the present; reports on collateral reading in the drama and the novel.
Three sections: Umbach, Place.

101. SURVEY OF AMERICAN LITERATURE Sem. 1. Cr. 3.
Prose, poetry, and drama of American literature from the beginning to the Civil War. Required of all students majoring in the English Department.

102. SURVEY OF AMERICAN LITERATURE Sem. 2. Cr. 3.
A continuation of English 101; survey of the prose, poetry and drama of American literature from the Civil War to the present day. Required of all students majoring in the English Department.

103. DEVELOPMENT OF THE DRAMA Sem. 1. Cr. 3.
Classical origins of the drama; the religious origins in England; Elizabethan drama; Restoration drama; foreign influences on the English drama.
[Not offered 1935-1936.]

104. MODERN DRAMA Sem. 2. Cr. 3.
Romantic closet drama; the Victorians; Ibsen and the new realism; contemporary drama, English, American, and Continental.
[Not offered 1935-1936.]

105. DEVELOPMENT OF THE NOVEL Sem. 1. Cr. 3.
Classical and medieval fiction; early English fiction; origin of the novel in the Eighteenth Century; romantic novelists; Victorian novelists; foreign influences.
[Not offered 1935-1936.]

106. MODERN NOVEL Sem. 2. Cr. 3.
Beginnings of the psychological novel; the new realism; the contemporary novel in England and on the continent.
[Not offered 1935-1936.]

107. DEVELOPMENT OF THE ESSAY Sem. 1. Cr. 2.
Classical parallels; Montaigne; beginnings in England; the "character"; the periodical essay; the romantic essayists.

108. MODERN ESSAY Sem. 2. Cr. 2.
Victorian essayists; the contemporary essay in England.

151. ROMANTIC POETS Sem. 1. Cr. 3.
Beginnings of romanticism; Wordsworth, Coleridge, Byron, Shelley, Keats; minor poets.

152. VICTORIAN POETS Sem. 2. Cr. 3.
Tennyson; Browning; Arnold; the Pre-Raphaelite movement; minor poets.

153. SHAKSPERE Sem. 1. Cr. 3.
The plays before 1600, with special emphasis on the comedies and chronicles.

154. SHAKSPERE Sem. 2. Cr. 3.
The plays after 1600, with special emphasis on the great tragedies.

155. READINGS IN COMPARATIVE LITERATURE Sem. 1. Cr. 2.
French Novel. An honor course open only to majors in English literature with an average of no less than B.
[Not offered 1935-1936.]

156. READINGS IN COMPARATIVE LITERATURE Sem. 2. Cr. 2.
Russian Novel. An honor course open only to majors in English literature with an average of no less than B.
[Not offered 1935-1936.]

191. THE TEACHING OF ENGLISH Sem. 1. Cr. 2.
A teacher's course. A study of literature for class study; the direction of library and home reading; methods of teaching literature; study of subject matter and methods of teaching composition; the scientific measurement of results.
Prerequisite: 18 credits of major.
[Given upon sufficient demand.] Place.

Courses in Public Speaking

Mr. Place

81. PUBLIC SPEAKING Each Semester. Cr. 3.
A course of the sophomore constant. This course is an introduction to all others in public speaking offered in the department. Conferences. Two sections.

112. FORMS OF PUBLIC ADDRESS Sem. 2. Cr. 3.
A study and preparation of all forms of public speeches, including lectures and orations; preparation for participation in the State Oratorical Contest, the Peace Oratorical Contest, and the National Oratorical Contest.
Prerequisite: English 81.

The Department of Foreign Languages and Literatures (French, German, Latin)

Associate Professor Miller, Head, Associate Professor Bauer, Assistant Professor Guillaumant, Miss Rechenberg

The Department of Foreign Languages and Literatures has the following objectives: (1) for the lower division courses: to give the student primarily a reading knowledge of moderately difficult prose and poetry in the language chosen, to introduce him to the history of the civilization of the nation whose language he is studying, and to prepare him for the work of the upper division; (2) for the upper division courses: to continue the work begun in the lower division, to present the literatures of the languages offered and to further the student's appreciation of good literature, and to prepare students for the teaching of foreign languages.

General Regulations

(1) Every student is required to complete for graduation at least six credits in foreign languages above the first-year level. This work is ordinarily taken in the freshman and sophomore years. (2) No credit is granted for less than a full year's work on the first year level. (3) Only upper division courses may be applied on a major or a minor. (4) New students are given placement tests during freshman week to determine which courses they may enter.

French

Assistant Professor Guillaumant

Major

A major consists of a minimum of twenty-four credit hours. A prerequisite is French 54, or the equivalent. Students preparing to teach French must include French 113 and 114 in their major.

Minor

A minor consists of a minimum of twelve credit hours. A prerequisite is French 54, or the equivalent.

Courses in French

1. FIRST SEMESTER FRENCH Sem. 1. Cr. 3.
Study of pronunciation by means of phonetic symbols. Grammar taught inductively, with conversation and dictation; daily written work.

2. Second Semester French Sem. 2. Cr. 3.
Study of grammar, with emphasis upon the verb; reading of simple texts.
Prerequisite: French 1, or one unit of high school French.

53. Third Semester French Sem. 1. Cr. 3.
Systematic review of grammar, with oral and written compositions. Study of irregular verbs. Reading of modern authors.
Prerequisite: French 2, or two units of high school French.

54. Fourth Semester French Sem. 2. Cr. 3.
Continuation of French 53, with an introduction to the history of French civilization.
Prerequisite: French 53, or the equivalent.

105. Survey of French Literature Sem. 1. Cr. 3.
Study of the origins of the French language and the development of literature with a detailed study of seventeenth century literature. Collateral assignments; reading in class of representative selections.
Prerequisite: French 54, or the equivalent.

106. Survey of French Literature Sem. 2. Cr. 3.
Study of eighteenth and nineteenth century literature.
Prerequisite: French 105, or the equivalent.

113. Composition and Conversation Sem. 1. Cr. 2.
Written composition based on connected reading, with emphasis on the use of idioms. Conversation based on topics of current interest.
Prerequisite: French 54, or the equivalent.
[Given upon sufficient demand.]

114. Advanced Composition and Conversation Sem. 2. Cr. 2.
Original oral and written compositions, and practice in conversation.
Prerequisite: French 113.
[Given upon sufficient demand.]

151. Seventeenth Century Classic Drama Sem. 1. Cr. 3.
Study of the development of classic form in the plays of Corneille and Racine and of Moliere's art in depicting contemporary manners.
Prerequisite: French 106, or the equivalent.
Alternates with French 153.
[Given upon sufficient demand.]

152. Eighteenth Century Literature Sem. 2. Cr. 3.
Study of eighteenth century philosophy and literature.
Prerequisite: French 106, or the equivalent.
Alternates with French 154.
[Given upon sufficient demand.]

153. Nineteenth Century Literature Sem. 1. Cr. 3.
Study of various periods of nineteenth century literature, with rapid reading of representative novels, plays and poetry.
Prerequisite: French 106, or the equivalent.
Alternates with French 151.
[Not offered 1935-1936.]

154. Contemporary Literature Sem. 2. Cr. 3.
A rapid reading course with supplementary classroom lectures in latter nineteenth and twentieth century French literature, including such authors as Renan, Taine, Bourget, Loti, France, Rolland, Proust, Bergson.
Prerequisite: French 153, or the equivalent.
Alternates with French 152.
[Not offered 1935-1936.]

155. French Civilization Sem. 1. Cr. 3.
A senior course which considers the civilization of France from its earliest days.
Prerequisite: The ability to read French readily.
[Given upon sufficient demand.]

156. French Civilization Sem. 2. Cr. 3.
Continuation of French 155.
Prerequisite: French 155.
[Given upon sufficient demand.]

191. The Teaching of French Sem. 2. Cr. 2.
A teacher's course; the fundamental principles underlying the teaching of modern languages; the position of modern languages in American education; the methods and theories of teaching French; review of phonetic symbols; the subject matter and apparatus of French teaching; difficulties encountered in high school teaching; standard tests.
Prerequisite: Six hours of the major in French.
[Given upon sufficient demand.]

German

Mr. Miller, Miss Rechenberg

Major

A major consists of a minimum of twenty-four credit hours. A prerequisite is German 54, or the equivalent. Students preparing to teach German must include German 113 and 114 in their major.

Minor

A minor consists of a minimum of twelve credit hours. A prerequisite is German 54, or the equivalent.

Courses in German

1. First Semester German Sem. 1. Cr. 3.
   Designed primarily to give the student a reading knowledge of easy German prose. Two sections: Miller and Rechenberg.

2. Second Semester German Sem. 2. Cr. 3.
   Continuation of German 1.
   Prerequisite: German 1, or the equivalent.
   Two sections: Miller and Rechenberg.

53. Third Semester German Sem. 1. Cr. 3.
   Intermediate German. Includes selected readings from modern prose writers and the classical poets, a review of German grammar, practice in writing and speaking German, and reports on outside reading.
   Prerequisite: German 2, or the equivalent.
   Two sections: Rechenberg.

54. Fourth Semester German Sem. 2. Cr. 3.
   Continuation of German 53, with an introduction to the history of German civilization.
   Prerequisite: German 53, or the equivalent.
   Two sections: Rechenberg.

105. Classical Authors Sem. 1. Cr. 3.
   An introduction to the classical period of German literature. Selections especially from the works of Lessing, Goethe, and Schiller. Lectures and supplementary outside readings.
   Prerequisite: German 54, or the equivalent.
   Rechenberg.

106. Classical Authors Sem. 2. Cr. 3.
   Continuation of German 105.
   Prerequisite: German 105, or the equivalent.
   Rechenberg.

113. German Composition Sem. 1. Cr. 2.
   Review of grammar, written and oral reports on outside reading, letter writing.
   Prerequisite: German 54, or the equivalent.
   [Given upon sufficient demand.] Rechenberg.

114. German Composition Sem. 2. Cr. 2.
   Continuation of German 113.
   Prerequisite: German 113, or he equivalent.
   [Given upon sufficient demand.] Rechenberg.

153. History of German Literature to 1800 Sem. 1. Cr. 3.
   Lectures, outside reading, and reports.
   Prerequisite: German 106, or the equivalent.
   Alternates with German 155. Miller.

154. History of German Literature to 1800. Sem. 2. Cr. 3.
   Continuation of German 153.
   Prerequisite: German 153, or the equivalent.
   Alternates with German 156. Miller.

155. Nineteenth Century Literature Sem. 1. Cr. 3.
   Class reading, lectures, and outside reading.
   Prerequisite: German 106, or the equivalent.
   Alternates with German 153.
   [Not offered 1935-1936.] Miller.

156. Nineteenth Century Literature Sem. 2. Cr. 3.
   Continuation of German 155.
   Prerequisite: German 155, or the equivalent.
   Alternates with German 154.
   [Not offered 1935-1936.] Miller.

157. GOETHE Sem. 1. Cr. 3.

Class and outside readings; lectures.
Prerequisite: German 106, or the equivalent.
Alternates with German 163. Miller.

158. GOETHE Sem. 2. Cr. 3.

Continuaion of German 157.
Prerequisite: German 157, or the equivalent.
Alternates with German 164. Miller.

163. SCHILLER Sem. 1. Cr. 3.

Class and outside readings; lectures.
Prerequisite: German 106, or the equivalent.
Alternates with German 157.
[Not offered 1935-1936.] Miller.

164. SCHILLER Sem. 2. Cr. 3

Continuation of German 163.

Prerequisite: German 163, or the equivalent.
Alternates with German 158.
[Not offered 1935-1936.] Miller.

191. THE TEACHING OF GERMAN Sem. 1. Cr. 2.

A teacher's course; the position of modern languages in American education; analysis of the principles and practices that are applicable to foreign language study; a study of the material in teaching German; standard tests.
Prerequisite: Twelve hours of a major in German.
[Given upon sufficient demand.] Miller.

Latin

Mr. Bauer, Mr. Miller

Minor

The minimum for a minor is 12 credit hours. A prerequisite is Latin 54, or the equivalent.

Courses in Latin

53. INTERMEDIATE LATIN: CICERO Sem. 1. Cr. 3.

Several speeches of Cicero will be read. The study of the text will be accompanied by a review of forms and syntax.
Prerequisite: Two units of high school Latin. Miller.

54. INTERMEDIATE LATIN: VIRGIL Sem. 2. Cr. 3.

This course introduces the student to Latin poetry. The emphasis is on the understanding and interpretation of the selections read.
Prerequisite: Latin 53, or three units of high school Latin.
Miller.

105. CICERO'S DE SENECTUTE AND SELECTIONS FROM CATULLUS Sem. 1. Cr. 3.

The course aims to give the student a better understanding of Latin construction and to interpret Cicero as a man of letters.
Prerequisite: Latin 54, or the equivalent.
Alternates with Latin 107. Bauer.

106. OVID Sem. 2. Cr. 3.

The course is based largely on Ovid's Metamorphoses with selections from his minor works.
Prerequisite: Latin 54, or the equivalent. Bauer.

107. LIVY Sem. 1. Cr. 3

The course, introducing the student to Roman historical writing, aims to develop the power to read Latin more readily by strengthening the student's knowledge of Latin construction.
Prerequisite: Latin 54, or the equivalent.
Alternates with Latin 105.
[Not offered 1935-1936.] Bauer.

108. ROMAN COMEDY Sem. 2. Cr. 3.

History of the rise and decline of Roman comic drama. From the extant plans the Captive of Plautus and Phormio of Terence will be selected for class study with reading of several other plays in English translation.
Prerequisite: Latin 54, or the equivalent.
Alternates with Latin 106.
[Not offered 1935-1936.] Bauer.

The Department of Geography and Geology

Associate Professor Meyer, Head

Field and Function

Modern chorographic geography is the science of areal phenomenology. It seeks (1) to describe and map the natural and cultural phenomena of specific regions of the earth, (2) to point out the distributional relationships which exist between the human and natural forms of the environment, and (3) to explain the part which environment plays in human adjustments—in the occupation of areas, in the utilization of resources, in the promotion of industry and commerce, and in the historical development of the various patterns of civilization.

Geology deals with the structure and history of the earth.

The region about Valparaiso is eminently suited for the study of land form and land use patterns. Four major physiographic units afford interesting and instructive contracts in landscape characteristics: the Valparaiso Moraine with its continental divide near which the city of Valparaiso is located; the Chicago Lake Plain to the north and northwest, featuring phenomenal industrial and commercial development; the internationally famous Dunes, scenic recreation and resort center on the shore of Lake Michigan; and finally, the historically and economically interesting marsh-reclaimed Kankakee agricultural region south of the moraine.

Geography courses in the department yield social science credit; geology, natural science credit.

Objectives

Course offerings are designed (1) to fulfill teaching option requirements and otherwise to meet the growing demands for adequate training in the teaching of geography, (2) to contribute basic geographic material to other disciplines, such as, economics, history, political science, sociology, and biology, and (3) to enhance appreciation of world events and traveling experiences by supplying to the student geographic and geologic perspective.

Major

Twenty-four credit hours are required for a major in Geography which may include Geology 51 and 52.

Minor

Fifteen credit hours are required for a minor in Geography which may include Geology 51 and 52.

Courses in Geography

(Social Science)

51 Social Geography Sem. 7. Cr. 3.
An integrated treatment of human occupance and natural environmental characteristics of the major regions of the earth. Human society and economy, as expressed in the character and distribution of population and in the patterns of land utilization, are interpreted on the basis of the interrelation which exists between the cultural forms of the landscape and the elements of the natural environment—climate, land form, soil, natural vegetation, etc.

52. Social Geography Sem. 2. Cr. 3.
A continuation of Geography 51.

101. Economic Geography Sem. 1. Cr. 3.
A study of agricultural, industrial, and commercial products and activities in connection with environmental factors.
Alternates with Geography 161.

125. Physical-Cultural North America Sem. 1. Cr. 3.
A relationship study of the natural and cultural forms of landscapes of North America treated regionally by physiographic provinces.
Alternates with Geography 129.
[Not offered 1935-1936.]

129. PHYSICAL-CULTURAL EUROPE Sem. 1. Cr. 3.
A regional treatment of the social, political, industrial, and commercial patterns of Europe in relation to climate, land, sea, drainage, and other forms of the natural set-up.
Alternates with Geography 125.

152. TRADE AND TRANSPORTATION Sem. 2. Cr. 3.
A course which treats of the inter-regional and international trade in agricultural, mineral, and manufactured products; of the distribution of the world's chief commercial centers and transportation routes on land and sea; and of the relations of commercial resources and activities to world power.

161. HISTORICAL AND POLITICAL GEOGRAPHY Sem. 1. Cr. 3.
A survey of ancient geographic speculations, successive epochal discoveries and explorations, origin and development of commerce, evolution of geographic thought and modern concepts of geographic philosophy, together with a consideration of the influence of these factors and those of the environment itself on ancient, mediaeval, and modern civilizations.
Alternates with Geography 101.
[Not offered 1935-1936.]

199. SEMINAR-SURVEY Sem. 2. Cr. 1-3.
Special assignments available only to Geography majors.

Courses in Geology
(Natural Science)

51. PHYSIOGRAPHY Sem. 1. 3+2, Cr. 4.
An introduction to the surface features of the earth. This course and its continuation in General Geology are designed to aid the general student in appreciating the meaning of earth features, as well as to supplement the training in the field of geography. Laboratory and field studies.
Laboratory fee, $1.25.

52. GENERAL GEOLOGY Sem. 2. 3+2, Cr. 4.
A treatment of the fundamental principles of physiographical, stratigraphical, structural, and dynamical geology; consideration of the theoretical phases, practical applications, and historical development of the science. Laboratory work includes a study of a specially constructed miniature earth model. Field trip.
Laboratory fee, $1.25.

62. ENGINEERING GEOLOGY Sem. 2. 3+2, Cr. 4.
A presentation of the principles of geology, featuring elements applying to the problems and practices of the civil engineer. Laboratory and field studies.
Laboratory fee, $1.25.

The Department of Mathematics and Physics

Associate Professor Thomas, Head, Assistant Professor Frick, Mr. Betz

Mathematics

Mr. Frick, Mr. Betz

The department offers (1) training in the mathematical technique required by the scientist and engineer for the successful prosecution of their work and (2) instruction for those who are studying mathematics for its own sake or with a view to teach the subject in high school or college.

Practical problems are given precedence over those that are purely theoretical. However, the principles of pure mathematics are not neglected.

Mathematics Club

A group of students interested in mathematics holds regular meetings to discuss topics not ordinarily taken up in class work. There is no fixed membership and no assessed fee.

Major

Twenty-four credits are required for a major.

Students having a major in view should begin their mathematics in the freshman year. Physics 140 can be counted toward a mathematics major and it is advised that majors take this course.

The major for the prospective teacher must consist of the following courses: Mathematics 51, 52, 111, 112, 142, 151 and one other course.

Minor

The minor shall consist of two semesters' work beyond mathematics 52.

Courses in Mathematics

01. Solid Geometry Sem. 1. 4+0, Cr. 0.
The elements of solid geometry; required of all engineering freshman and mathematics majors who have not had solid geometry in high school.
Betz.

51. College Algebra and Trigonometry Sem. 1. Cr. 4.
Three hours work in college algebra and one in trigonometry. This course is intended for liberal arts and pharmacy students. It is a required course for the latter.
Prerequisite: Entrance requirements. Frick.

52. Trigonometry and Analytic Geometry Sem. 2. Cr. 4.
Two hours work in plane trigonometry and two hours work in plane analytic geometry.
Prerequisite: Mathematics 51. Frick.

61. Engineering Mathematics Sem. 1. Cr. 5.
First semester mathematics for the engineers. Consists of college algebra and trigonometry.
Prerequisite: Entrance requirements. Betz.

62. Engineering Mathematics Sem. 2. Cr. 5.
Second semester mathematics for the engineers. Consists of trigonometry and analytic geometry.
Prerequisite: Mathematics 61. Betz.

111. Differential Calculus Sem. 1. Cr. 4.
Prerequisite: Mathematics 52 or 62. Frick.

112. Integral Calculus Sem. 2. Cr. 4.
Prerequisite: Mathematics 111. Frick.

131. Advanced Algebra Sem. 1. Cr. 3.
Selected topics in advanced college algebra.
Prerequisite: Mathematics 52 or 62.
Alternates with Mathematics 151.
[Not offered 1935-1936.] Frick.

142. College Geometry Sem. 2. Cr. 4.
Selected topics in advanced synthetic or analytic geometry.
Prerequisite: Mathematics 52 or 62. Frick.

151. Mathematics of Finance Sem. 1. Cr. 3.
Interest, annuities, amortization and bond valuation.
Prerequisite: Mathematics 52 or 62.
Alternates with Mathematics 131. Frick.

171. Differential Equations Sem. 1. Cr. 3.
Ordinary differential equations; applications to mechanical, physical, and chemical problems.
Prerequisite: Mathematics 112. Frick.

172. Differential Equations Sem. 2. Cr. 3.
Non-linear and partial differential equations; and existence theorems.
Prerequisite: Mathematics 171. Frick.

191. The Teaching of Mathematics Sem. 1. Cr. 2.
A teachers course. Open to education students.
Prerequisite: Minor in mathematics. Frick.

Physics

Mr. Thomas, Mr. Betz

Because of its fundamental importance in the different branches of applied science, physics (a) serves the varied needs of the technical student, the student of engineering, pre-medicine, and pharmacy. Provision has also been made for the interests of two other groups of students; namely, (b) those in the College of Liberal Arts who desire some knowledge of physical science for its cultural value and (c) those who are looking forward to a career in physics, either in the teaching profession or in industrial research.

Major

Twenty-four credits in physics shall constitute a major.

A minor in mathematics is necessary for a physics major. Physics 184 may be applied toward a major or minor in physics.

Minor

A minor shall consist of two semesters' work beyond Physics 51 and 52, totaling at least fourteen hours.

Courses in Physics

51-52. General Physics Yr. Each Sem. 3+3, Cr. 4.
This is the basic course in physics. The general principles of mechanics, sound, heat, electricity, and light are covered.
Prerequisite: Entrance requirements.
Laboratory fee, $6.00; deposit, $2.00. Thomas and Betz.

61-62. Physics Problems Yr. Each Sem. 0+3, Cr. 1.
This course is intended particularly for engineers.
Prerequisite: Mathematics 52. Thomas.

82. Glass Blowing Sem. 2. 0+3, Cr. 1.
The rudiments of glass blowing and, if desired, other laboratory manipulations.
Laboratory fee, $6.00. Betz.

101-102. Modern Physics Yr. Each Sem. 3+3, Cr. 4.
An introduction to the work done in physics during the last thirty years.
Prerequisite: Physics 51-52.
Laboratory fee, $6.00; deposit, $2.00. Thomas.

111. Theory of Heat Sem. 1. 2+6, Cr. 4.
Thermal properties of matter, introduction to thermodynamics, properties of vapors, pyrometry and other thermal phenomena are studied.
Prerequisite: Physics 51-52 and Mathematics 111. May be taken concurrently with Mathematics 111.
Laboratory fee, $6.00; deposit, $2.00.
Alternates with Physics 121. Thomas.

121. Theory of Light Sem. 1. 2+6, Cr. 4.
Geometrical and physical optics, spectroscopy, and the general properties of radiant energy will be considered.
Prerequisite: Physics 51-52 and Mathematics 111. May be taken concurrently with Mathematics 111.
Laboratory fee, $6.00; deposit, $2.00.
Alternates with Physics 111.
[Not offered 1935-1936.] Thomas.

126. Descriptive Astronomy Sem. 2. 3+0, Cr. 3.
A general introduction to non-mathematical astronomy. The constellations, the solar system, and the stellar universe are covered.
Laboratory hours may be inserted in place of some of the recitations. This course may not be applied on a major or minor in physics.
Laboratory fee, $2.00. Thomas.

132. Electricity and Magnetism Sem. 2. 2+6, Cr. 4.
The basic principles of electrical and magnetic phenomena are investigated.
Prerequisite: Physics 51-52 and Mathematics 112. Can be taken concurrently with Mathematics 112.
Laboratory fee, $6.00; deposit, $2.00.
Alternates with Physics 140. Thomas.

133. Electrical and Magnetic Measurements Sem. 1. 1+6, Cr. 3.
Required of juniors who are taking electrical engineering.
Prerequisite: Mathematics 112 and Physics 51-52 and 61-62.
Laboratory fee, $6.00; deposit, $2.00. Thomas.

140. Theoretical Mechanics Sem. 2. 3+0, Cr. 3.
The mathematical theory of statics and Newtonian dynamics.
Prerequisites: Physics 51-52 and Mathematics 112.
Alternates with Physics 132.
[Not offered 1935-1936.]

142. Advanced Laboratory Sem. 2. 0+3, Cr. 1.
This course will ordinarily accompany Physics 140. Experience given in setting up and using with especial care apparatus for a few advanced experiments.
Prerequisite: Physics 51-52.
Laboratory fee, $6.00; deposit, $2.00.
[Not offered 1935-1936.]

184. General Astronomy Sem. 2. 3+0, Cr. 3.
Students taking this course will attend the lectures of Physics 126 and will be required to do additional laboratory and problem work. This course may be applied on a Physics major or minor.
Prerequisite: Mathematics 52 or 62 and Physics 51-52.
Laboratory fee, $2.00. Thomas.

191. The Teaching of Physics Sem. 2. 1+3, Cr. 2.
A teachers' course. Open to education students.
Prerequisite: Minor in Physics.
Laboratory fee, $6.00; deposit, $2.00. Thomas.

The Department of Music

Assistant Professor Schweppe, Head, Professor Chaffee, Mr. Green, Miss Dvorak, and Mr. Rogers

Aims

1. To provide for students who are taking the degree of Bachelor of Arts opportunities to understand and appreciate music as part of a liberal education.

2. To provide for students who desire to become supervisors and teachers of public school music a four-year curriculum leading to the degree of Bachelor of Arts.

I. Curriculum in Public School Music

Freshman Year

First Semester	Cr.	*Second Semester*	Cr.
1. Freshman Composition	3	2. Freshman Composition	3
1. The Bible*	3	2. Life and Teachings of Jesus*	3
A Laboratory Science	4	A Laboratory Science	4
M. 1. Sight Singing	1	M. 2. Sight Singing	1
M. 3. Ear Training	1	M. 4. Ear Training	1
M. 5. Essentials of Music	0	M. 6. Essentials of Music	0
Voice	1	Voice	1
3. Individual Health Program (Each sem. 1 hour)	0	4. Individual Health Program (Each sem. 1 hour).	0
Foreign Language	3	Foreign Language	3
Total	16	Total	16

Sophomore Year

First Semester	Cr.	*Second Semester*	Cr.
51. Survey of English Literature	3	52. Survey of English Literature	3
Foreign Language	3	Foreign Language	3
51. General Psychology	3	62. Public Education	3
51. Sight Singing	1	52. Sight Singing	1
53. Ear Training	1	54. Ear Training	1
15. Harmony	3	16. Harmony	3
Voice	1	Voice	1
Piano	1	Piano	1
	16		16

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

Junior Year

First Semester	Cr.	*Second Semester*	Cr.
A Social Science	3	A Social Science	3
A Laboratory Science	4	118. Secondary Education	3
55. Harmony	2	A Laboratory Science	4
53. Educational Psychology	3	56. Harmony	2
Applied Music	1	Applied Music	1
109. Elementary School Music Methods	2	110. Elementary School Music Methods	2
111. Appreciation of Music for the Elementary School	0	112. Appreciation of Music for the Elementary School	0
117. Instrumental Methods	1	118. Instrumental Methods	1
	16		16

Senior Year

First Semester	Cr.	*Second Semester*	Cr.
103. History of Music	2	104. History of Music	2
151. Principles of Teaching	3	191. Supervised Teaching	3
153. Instrumentation and Conducting	2	154. Instrumentation and Conducting	2
Applied Music	2	Applied Music	2
155. Orchestral Instrument	1	156. Orchestral Instrument	1
191. High School Music Methods	2	192. High School Music Methods	2
193. High School Music Appreciation	0	194. High School Music Appreciation	0
81. Public Speaking	3	151. The Church and Her Work*	2
		132. Choir Training	2
	15		16

Ensemble is required each year. The student is required to take choir and either band or orchestra.

Piano required: Students with a major in Public School Music must present for graduation work in piano equivalent to third grade proficiency.

One hundred twenty credit hours are required for the degree of Bachelor of Arts with a major in Public School Music.

II. Major for Secondary School Teachers

For those students who do not wish to take the supervisors' course in public school music, but who would like to meet the state requirements for teaching in secondary schools, a course is offered with a major of 26 semester hours, working toward the A.B., with the division as follows:

Methods (Courses 109-110, 111-112, 117-118, 153-154, 191-192, 193-194.)	12 credits
Sight Singing	2 credits
Ear Training	2 credits
Harmony	4 credits
Voice	2 credits
Piano	2 credits
Orchestral Instrument	2 credits

Students in this course will be required to take Ensemble 1E, and either 3E or 4E each semester.

III. General Major

A cultural course in music to be used as a second major of 26 semester hours which may be accepted toward the A.B. degree.

*This requirement applies to Lutheran students only.

This course will be divided as follows:

Sight Singing	2 credits
Ear Training	2 credits
Harmony	10 credits
Counterpoint	4 credits
Form and Analysis	2 credits
Applied Music	6 credits

Students in this course will be required to take ensemble each semester.

Unit of Credit

The unit for credit in applied music is estimated as follows:

1. *Violin, Piano, Voice*: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.

2. *Violin*: One class lesson per week. One-half credit per semester.

3. *Orchestral Instruments*: One thirty-minute private lesson per week plus one hour daily practice for five days a week. One credit per semester.

Student Recitals: Music students are required to attend all recitals as a part of their regular work and perform in recitals when so directed by their instructors.

Ensemble is required each year.

One hundred twenty semester credit hours are required for the degree of Bachelor of Arts.

Applied music is the practical study of voice, violin, piano, et cetera. Theory is a group name for harmony, counterpoint, form and analysis, composition, and allied subjects.

Courses in Applied Music

Piano

Mr. Green

For admission to the piano curriculum, piano students must demonstrate by examination the ability to play all major and minor scales, hands together, two, three and four notes at M. M. 110; major and minor arpeggios, each hand alone, four notes at M.M. 80; selections from the following or the equivalent; Heller Op. 45 and 46, Loeschorn Op. 66, the easier Haydn and Mozart Sonatas.

49-50P. Piano Yr. Each semester. 1+5, Cr. 2.

Playing of all major and minor scales with facility—four notes at M. M. 120-132; all major and minor arpeggios (triads) in fundamental positions and inversions—four notes at M. M. 89-100; Etudes or exercises selected from Czerny, Op. 299; Cramer, Bach, *Inventions*, Bach's *Little Preludes* and *Fugues*, and other technical exercises of similar grade; Mozart sonatas and easier Beethoven sonatas; compositions by Grieg, Schubert, Schumann, and Mendelssohn. Memorizing.

49½-50½P. Piano Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 49-50P.

99-100P. Piano Yr. Each semester. 1+5, Cr. 2.

All scales with rapidity and variety of tone—seven notes at M. M. 88-95. Seventh chord arpeggios—four notes at M. M. 120-132. Hanon Virtuso Studies, Czerny Op. 740, Bach's *Well Tempered Clavichord*, Beethoven, *Sonatas;* Chopin, *Preludes and Waltzes;* compositions by Mendelssohn, Schumann, Rubenstein, Grieg, MacDowell, Sinding, and Raff. Memorizing.
Prerequisite: Music 49-50P.

99½-100½P. Piano Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 99-100P.
Prerequisite: Music 49½-50½P.

149-150P. Piano Yr. Each semester. ½+5, Cr. 2.

Scales and studies in double thirds and sixths; Moskowski, Killak's *Octave School;* Henselt, *Etudes;* Chopin, *Ballads;* Beethoven, *Sonatas;* Mendelssohn, *Concerto;* Brahms, *Rhapsodies*, and compositions of equal difficulty.
Prerequisite: Music 99-100P.

149½-150½P. Piano Yr. Each semester. ½+5, Cr. 1.

A reasonable amount of the material covered in Music 149-150P.
Prerequisite: Music 99½-100½P.

199-200P. Piano Yr. Each semester. 1+5, Cr. 2.
Chopin, *Etudes;* sonatas and concertos by Beethoven, MacDowell, Brahms.
Prerequisite: Music 149-150P.

199½-200½P. Piano Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 199-200P.
Prerequisite: Music 140½-150½P.

177-178P. Accompanying Yr. Each semester. Cr. 1.
Study in the art of playing piano accompaniments. Practical work under supervision, with singers, violinists, and other instrumentalists. Open to students with sufficient experience. Consultation with instructor necessary before registering.
Prerequisite: Music 149-150P.

185-186. Repertoire and Interpretation Yr. Each semester. Cr. 1.
The works of the older classic composers together with those of the modern school discussed and illustrated, with reference to the interpretative aspect, and to program building.

191P. The Teaching of Piano Sem. 1. Cr. 2.
The fundamental principles of the art of teaching the piano form the subject matter of this course. Consideration will be given to such topics as these: Psychology and pedagogy of teaching; past and present piano methods; piano touches, technic, rhythm, pedaling, phrasing, and interpretation.

Violin
Miss Dvorak

For admission to the violin curriculum students must demonstrate by examination that they are well grounded in correct position, intonation, tone, and bowing, and that they have completed the following or the equivalent: Kayser Bk. II, reasonable amount of Schradieck and Sevcik.

49-50Vi. Violin Yr. Each semester. 1+5, Cr. 2.
All major and minor scales and arpeggios in three octaves. Position studies and double stops in first position. Studies from Kayser, Dont, Sevcik; concertos and pieces of Seitz, Accolay, and Sitt.

49½-50½Vi. Violin Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 49-50Vi.

99-100Vi. Violin Yr. Each semester. 1+5, Cr. 2.
Study of higher positions and double stops. Studies from Sevcik, Kreutzer, Leonard, Dont; concertos and pieces of de Beriot, Leonard, Seitz; sonatinas of Schubert, easier sonatas of Handel.

99½-100½Vi. Violin Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 99-100Vi.

149-150Vi. Violin Yr. Each semester. 1+5, Cr. 2.
Scale studies in thirds, sixths, and octaves; studies of Kreutzer, Leonard, Fiorillo; concertos and pieces of Kreutzer, de Beriot, Dont, Rode; sonatas of old Italian masters, Mozart, and Beethoven.

149½-150½Vi. Violin Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 149-150Vi.

199-200Vi. Violin Yr. Each semester. 1+5, Cr. 2.
Scale studies in thirds, sixths, octaves, and tenths; studies of Kreutzer, Fiorillo, Rode, Gavinies; study of standard concertos; sonatas of Bach.

199½-200½Vi. Violin Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 199-200Vi.

195-196Vi. Senior Recital Yr. Each semester. Cr. 2.
A senior recital program is given, selected by the instructor, the numbers depending largely upon the ability and style of the individual student. A sonata, concerto, and groups of the more important works of standard classic and modern composers will comprise the program.

Viola
Miss Dvorak

49-50Va. Viola Yr. Each semester. 1+5, Cr. 2.
Studies from Sitt and Schloming; scales and arpeggios in two octaves; concertos and pieces of Burmester, Sitt, and Schuman.

49½-50½Va. Viola Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 49-50Va.

99-100Va. Viola Yr. Each semester. 1+5, Cr. 2.
Studies from Sitt, Schloming, Hofmeister; scales and arpeggios in three octaves; double stops in lower positions; concertos and pieces of Sitt and Steiner; easier sonatas of Handel.

99½-100½Va. Viola Yr. Each semester ½+5, Cr. 1.
A reasonable amount of the material covered in Music 99-100Va.

149-150Va. Viola Yr. Each semester. 1+5, Cr. 2.
Studies from Sitt, Schloming, Hofmeister, Campagnoli, and Kreutzer; scales and arpeggios in three octaves, also in thirds, sixths, and octaves; concertos of Sitt, Steiner, and Handel; sonatas of Bach.

149½-150½Va. Viola Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 149-150Va.

199-200Va. Viola Yr. Each semester. 1+5, Cr. 2.
Studies from Sitt, Schloming, Hofmeister, Campagnoli, Kreutzer, Fiorillo, and Bode; scales and arpeggios in three octaves, also in thirds, sixths, and octaves; concertos of Sitt, Handel, and Bowen; sonatas of Bach.

199½-200½Va. Viola Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 199-200Va.

Violincello

49-50Cl. Cello Yr. Each semester. 1+5, Cr. 2.
Study of lower positions, various kinds of bowing, development of tone; scale and arpeggios in two octaves; studies of Dotzauer; easy solos.

49½-50½Cl. Cello Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 49-50Cl.

99-100Cl. Cello Yr. Each semester. 1+5, Cr. 2.
Scales and arpeggios in three octaves; study of double stops; studies of Dotzauer, Klingenburg, Gruzmacher; concertos by Golterman, sonatas of Marallo.

99½-100½Cl. Cello Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 99-100Cl.

149-150Cl. Cello Yr. Each semester. 1+5, Cr. 2.
Scales and arpeggios in four octaves; study of thirds, sixths, and octaves; studies of Lee, Grutzmacher, solos and concertos by Golterman and Saint-Saens; sonatas of Bach and Handel.

149½-150½Cl. Cello Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 149-150Cl.

199-200Cl. Cello Yr. Each semester. 1+5, Cr. 2.
Scales and arpeggios; double stop exercises; Duport etudes; Bach sonatas; standard concertos.

199½-200½Cl. Cello Yr. Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 199-200Cl.

Orchestral Instruments

Mr. Rogers

The prerequisite for entrance in the freshman year: the student should have acquired the elementary technique of his instrument.

49-50W. Orchestral Instrument Each semester. 1+10, Cr. 2.
Ability to play acceptable exercises of moderate difficulty, including all the principal phases of technique characteristic of the particular instrument played.

49½-50½W. Orchestral Instrument Each semester. 1+10, Cr. 2.
A reasonable amount of the material covered in Music 49-50W.

99-100W. Orchestral Instrument Each semester. 1+10, Cr. 2.
The student should acquire sufficient orchestra routine to fill satisfactorily a second desk position in symphonic works of lesser difficulty.

99½-100½W. Orchestral Instrument Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 99-100W.

149-150W. Orchestral Instrument Each semester. 1+10, Cr. 2.
He should acquire such orchestra routine as to fill the principal position in symphonic works.

149½-150½W. Orchestral Instrument Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 149-150W.

199-200W. Orchestral Instrument Each semester. 1+10, Cr. 2.
Ability to play, preferably from memory, an etude, a sonata, a concerto, or their equivalents, and at least three miscellaneous pieces.

199½-200½W. Orchestral Instrument Each semester. ½+5, Cr. 1.
A reasonable amount of the material covered in Music 199-200W.
Orchestra or band is required each year. See note on ensemble credit under curriculum in applied music.

Voice

General piano requirement: Students with a major in voice must present, for graduation, work in piano equivalent to M. 100P.

49-50Vo. Voice Yr. Each semester. 1+5, Cr. 2.
The psychology of voice culture: corrective breathing and posture exercises; development of natural breath control by means of correct posture and release of body energy; the relation of energy release to the expression of ideas in song; exercises, scales, and studies in ear training and imitation of color tone and shading; development of phrasing into song literature.

49½-50½Vo. Voice Yr. Each semester. ½+2½, Cr. 1.

99-100Vo. Voice Yr. Each semester. 1+5, Cr. 2.
Continued work in technique; embellishments, stacatto and trill; easy art songs; oratorio and ensemble.
Prerequisite: Music 50Vo.

99½-100½Vo. Voice Yr. Each semester. ½+2½, Cr. 1.

149-150Vo. Voice Yr. Each semester. 1+5, Cr. 2.
Advanced technique, building into the subject matter of the song; beginning French, German, and Italian art songs; opera and oratorio arias; recitals and ensembles.

149½-150½Vo. Voice Yr. Each semester. ½+2½, Cr. 1.

191Vo. The Teaching of Voice Sem. 1. Cr. 2.
Biology, physics, and psychology as applied to singing. The physiological mechanism; the theory of sound; psychology as a factor in singing.

199-200Vo. Voice Yr. Each semester. 1+5, Cr. 2.
Development of repertoire of world's best vocal music; program building; one complete oratorio or opera role; one lesson weekly in coaching.
Prerequisite: Music 150V.

199½-200½Vo. Voice Yr. Each semester. ½+2½, Cr. 1.
A reasonable amount of material outlined in Music 199-200Vo.
Prerequisite: Music 150Vo.

195-196Vo. Recital Yr. Each semester, Cr. 2.
Senior recital to count as final examination; student required to build his own program from his four years' repertoire.

Courses in Music

Mr. Schweppe, Mr. Chaffee, Miss Dvorak, Mr. Green, Mr. Rogers

1-2. Sight Singing Yr. Each semester. 2+0, Cr. 1.
Drill in scale and interval singing; easy time subdivisions; notation; two-part singing. Chaffee.

3-4. Ear Training Yr. Each semester. 2+0, Cr. 1.
Major and minor scales; intervals and elementary rhythmic problems; a study in writing different kinds of measures by hearing them played or sung; melodic and harmonic intervals and simple chromatic problems; harmonic dictation. Chaffee.

5-6. Essentials of Music Yr. Each semester. 1+0, Cr. 0.
A one-hour course preparing for Harmony. It includes: writing scales, intervals and chords, and learning the various essential terms used in music.
Chaffee.

15-16. Harmony Yr. Each semester. Cr. 3.
The harmonization of melodies using the principal and secondary triads, dominant seventh and inversions, with simple modulation. Harmonic analysis.
Prerequisite: Music 5 and 6. Green.

51-52. Sight Singing Yr. Each semester. 2+0, Cr. 1.
Motives and short phrases; two and three part exercises and simple modulation; exercises in period writing; a study of chords.
Chaffee.

53-54. Ear Training Yr. Each semester. 2+0, Cr. 1.
Continuation of Music 3 and 4.
Prerequisite: Music 3 and 4. Chaffee.

55-56. Harmony Yr. Each semester. Cr. 2.
Secondary seventh chords and their inversions; ninth chords; altered chords, chromatic melodies, advanced modulation, and harmonic analysis.
Prerequisite: Music 15 and 16. Dvorak.

57-58. Keyboard Harmony Yr. Each semester. Cr. 1.
Harmonization of melodies and basses with sequences, cadences and modulations at the keyboard. Harmonic dictation and improvisation.
Prerequisite: Music 55-56. Green

61. The Appreciation of Music Sem. 1. Cr. 3.

A cultural course for those students who are not taking other work in music, but desire enough understanding to enjoy the great music of the world. The following subjects are studied: the instruments of the orchestra; the seating of the orchestra; music of the ancients; Greek music, the beginning of church music; polyhony; rondo form; the suite; the symphony form; human voices; folk music; the development of the opera; American music; the radio. This is a lecture course with suitable demonstrations. Assignments will follow each lecture. Schweppe.

103-104. History of Music Yr. Each semester. Cr. 2.

Music of primitive nations; the music and instruments of the Bible; music of the early Christian Church; rise and development of the liturgy; notation music and Renaissance; the polyphonic age; the rise of opera and oratorio; the periods of Bach and Handel, Haydn and Mozart; the advent of Beethoven; the rise of virtuosity and romanticism; Wagner and the new operatic tendencies; American music development. Collateral reading, preparation of themes, and outlines during both semesters. Schweppe.

105-106. Counterpoint Yr. Each semester. Cr. 2.

Counterpoint in two, three, and four parts in the various species.
Prerequisite: Music 55 and 56 . Dvorak.

107-108. Form and Analysis Yr. Each semester. Cr. 2.

A study of the structure and aesthetic content of music; primary and contrapuntal forms; chord analysis; small instrumental forms with examples from Schubert, Mendelssohn, and Grieg; simple and compound primary forms; preludes, inventions, and dance forms of Bach; rondo, theme with variations, art song.
Prerequisite: Music 15 and 16. Dvorak.

109-110. Elementary School Music Methods Yr. Each semester. Cr. 2.

A teacher's course designed primarily for students with a 26 or 48 hour major in public school music. Music in the primary grades; sensitizing the child to music, rhythmic training, seating, the rote song, beginning of creative work, monotones, individual work, beginning sight singing. Intermediate grades; project lessons in creative work, the recognition and enjoyment of fine music, further mastery of the score, two-part singing. Music in the upper grades and junior high school; adolescent voice, three and four-part singing, the glee club, elementary school entertainments. Teaching material.

111-112. Appreciation of Music for the Elementary School Yr. Each semester. No credit.

A teacher's course. Lower grade work: learning to listen, rhythm drills. Intermediate grades: instruments of the orchestra, intricate rhythm, beginning of program music. Upper grades: the symphony and higher program music, the rondo form, beginning of opera. Schweppe.

117-118. Instrumental Methods Each semester. Cr. 1.

Study of methods for class instruction in string and band instruments in the public schools. Organization of classes, ensemble, problems, and materials. Dvorak and Rogers.

132. Choir Training Sem. 2. Cr. 2.

The training of the volunteer choir. *A cappella* singing; the oratorio; the reading of suitable literature. Schweppe.

151-152. Composition Yr. Each semester. Cr. 2.

Exercises in writing sections, phrases, periods, small two and three-part primary forms and large two and three-part primary forms.
Prerequisite: Music 55, 56, 107, 108. Dvorak.

153-154. Instrumentation and Conducting Yr. Each semester. Cr. 2.

Development of the orchestra and orchestral instruments. Explanation of all orchestra instruments, compasses, characteristics, and tonal effects; the making and reading of orchestral scores; the arranging and scoring of the simpler forms; the fundamentals of conducting with individual practice. Dvorak.

155-156. Orchestral Instrument Yr. Each semester. Cr. 1.

Applied work in stringed or wind instruments as preparation for conducting school bands and orchestras.
Fee required. Dvorak and Rogers.

161-162. Orchestration Yr. Each semester. Cr. 2.

Technicalities of the various instruments. The writing and arranging of duets, trios, quartettes, etc., for different combinations of orchestra instruments; arranging for complete orchestra.

191-192. High School Music Methods Yr. Each semester. Cr. 2.

A teacher's course. Testing of voices; the high school chorus—seating, sight reading; glee clubs—boys' and girls'; the producing of an opera; *a capella* choir; eight-part literature, the oratorio; voice-class teaching; teaching material; supervising technique.
Prerequisite: Music 109-110.

193-194. High School Music Appreciation Yr. Each semester. No credit.
A teacher's course. Different methods of presentation; rhythm, melody; harmony, program music; the orchestra, composers, cultured rondo, theme with variations, art song.
Prerequisite: Music 111 and 112. Schweppe.

Ensemble

Mr. Schweppe, Mr. Rogers, Miss Dvorak

The musical organizations are open to all students who can qualify.

1E. University Choir Yr. Each semester. No credit.
Mixed voices. Membership limited to fifty. Admission by try-out only. Sacred music sung *a capella*. Meets every day. Attendance required. Tour each spring. Mr. Schweppe.

2E. The University Chorus Each semester. No credit.
The chorus is open to all students. It is required of all voice students and public music students. Regular attendance is obligatory.
A standard work is studied each semester. Two-hour weekly rehearsals are held Tuesdays: 7:30-9:30 P.M. Mr. Schweppe.

3E. The University Symphony Orchestra Each semester. No credit.
All students who play orchestral instruments are admitted after consultation with the director.
Membership is required of all students of stringed instruments, at the discretion of the instructor of the violin section. Regular attendance at rehearsals and concerts is obligatory. The best standard orchestral compositions, symphonies, and overtures are studied and publicly performed in concert. Full rehearsals are held Thursday: 7:30-9:30 P.M.; sectional rehearsals are arranged. Dvorak.

4E. The University Band Each semester. No credit.
The band is open to all students who can qualify. Attendance at rehearsals and performances is required. The band takes part at all the football and basketball games as well as other activities. Rehearsals: Monday, Wednesday and Friday, 4:30-6:00. Rogers.

5E. Quartettes, Trios, Etc. No credit.
Groups of students selected from the above organizations rehearse quartettes, trios, et cetera, under the instruction of the voice teacher and furnish special music for assembly and chapel exercises.

6E. Instrumental Ensemble. No credit.
Students are encouraged to take advantage of the training in string, woodwind and brass ensemble in order to study the literature of chamber music. The class meets once a week for two periods and enrollment is only upon advice of the instructor. Dvorak and Rogers.

7E. The University Men's Glee Club. Each semester. No credit.
Membership is open to all men students but the selection is limited to twenty voices. The repertoire of the club is varied and includes many sacred numbers, ballads, humorous and popular songs. Rehearsals are on Tuesdays and Thursdays, 6:30 to 7:30. Rogers.

The Department of Religion and Philosophy

Professor Kroencke, Head, Associate Professor Bauer, and Mr. Kumnick

Religion

Mr. Bauer and Mr. Kumnick

Aim

The primary aim in offering courses in religion is in accord with the educational objectives of the University, to so prepare and stimulate the student that he may become an intelligent and useful member of the church and state. Therefore, every student is given ample opportunity, during his four years, to meet his requirement in religion: no less than six credits in the College of Liberal Arts and in the College of Pharmacy and three credits in the College of Engineering. He may study the sources, history, and teachings of Christianity and learn to apply its principles to the solution of the many perplexing problems of life.

Courses in Religion

1. The Bible Sem. 1. Cr. 3.
   This course includes a study of the origin, contents, authorship, and purpose of the Bible. Special emphasis is given to the essential unity of the various books of the Bible, the development of Biblical History, and God's plan of salvation as the keynote of divine revelation. Selected portions of the Bible are read and discussed. The course includes project study by members of the class who are advanced students in the field of religion.
   Three sections: Bauer, Kumnick.

2. The Life and Teachings of Jesus Sem. 2. Cr. 3.
   A study of the life and teachings of Jesus based on the four Gospels. The aim of this course is to increase the student's appreciation of Jesus in the light of His ministry and teachings. The course begins with the survey of the world of Jesus' day. Written interpretations and reviews will be required.
   Three sections: Bauer, Kumnick.

151. The Church and Her Work Sem. 1 and 2. Cr. 2.
   A brief history of the Lutheran Church in America, specifically a comprehensive survey of the activities of the local congregation and of the Synod of Missouri, Ohio, and Other States.
   A required course for junior and senior Lutheran students.

Philosophy

Mr. Kroencke

The aim in offering courses in Philosophy is to aid the student in obtaining a grasp of the essential unity of all knowledge, a better control over his own thinking, and a deeper understanding of those fundamental concepts which may serve him as guiding principles in the solution of both moral and scientific problems.

Minor

The minor requires twelve credit hours.

Courses in Philosophy

101. Ancient and Scholastic Philosophy Sem. 1. Cr. 3.
   A survey of philosophical thought from Thales to Neo-Platonism, followed by a study of Scholasticism.
   Alternates with Philosophy 141.
   [Not offered 1935-1936.]

102. Modern Philosophy Sem. 2. Cr. 3.
   A study of the development of thought from Descartes to the present time. Emphasis is placed on the relation of the various movements in philosophy to the formation of modern systems.
   Alternates wwith Philosophy 142.
   [Not offered 1935-1936.]

105. Ethics Sem. 1. Cr. 3.
   A brief treatment of the development of ethical thought, with the object of deriving a standard for the control of moral conduct. A critical study of ethical theories and the application of the moral criterion to current problems.

106. Logic Sem. 2. Cr. 3.
   The laws of thought are studied with a view to their use in the organization of the results of every day experience and scientific investigation. Problems are extensively employed.

141. English and German Philosophy Sem. 1. Cr. 3.
   Consideration will be given to Locke, Berkeley, Hume; to Kant and the Kantian criticism by Fichte, Schelling and Hegel; to Mill, Green, Bradley and Russell; to Herbart, Schopenhauer, Nietzsche, and Spengler.
   Alternates with Philosophy 101.

142. American Philosophy Sem. 2. Cr. 3.
   The foundations of American philosophy. Especial attention is given to Royce, James, Dewey, and Santayana with special emphasis on pragmatism, neo- and critical realism.
   Alernates with Philosophy 102.

The Department of Social Science

Professor Schwiebert, Head, Professor Kroencke,
Associate Professor Bauer

The social sciences aim to give the student a better understanding of the origin and development of political and social institutions; thereby giving him

a scientific approach toward social problems, preparing him for intelligent citizenship, and training him for the teaching profession or for further graduate study.

Special Programs

The Department of Social Science is sponsor for the following work:

I. For the Two Year Pre-Legal Program—

Two year pre-legal students may either conform to the regular requirements for the freshman and sophomore years and take such additional courses as may be suggested by the adviser; or they may follow as outlined the first two years of the three-year pre-legal program.

II. For the First Half of the Six-Year Combined Liberal Arts-Law Course—

This program requires for its completion the three years of work in the College of Liberal Arts, as outlined below, and the regular three-year course in the School of Law.

The Three-Year Pre-Legal Program

This program permits the pre-legal student to earn 24 credit hours in History. He may earn instead 24 credits in Sociology by substituting courses in this field for courses in History as outlined in the program.

Freshman Year

	Sem. I	Sem. II
Freshman Composition	3 Cr.	3 Cr.
History 51-52	3 Cr.	3 Cr.
A Laboratory Science	4 Cr.	4 Cr.
Foreign Language	3 Cr.	3 Cr.
The Bible, the Teachings of Jesus*	3 Cr.	3 Cr.
	16 Cr.	16 Cr.

Sophomore Year

	Sem. I	Sem. II
Survey of English Literature	3 Cr.	3 Cr.
Foreign Language	3 Cr.	3 Cr.
History 61-62	3 Cr.	3 Cr.
Sociology 51-52 or Economics 51-52**	3 Cr.	3 Cr.
General Psychology	3 Cr.	
Public Speaking		3 Cr.
	15 Cr.	15 Cr.

Junior Year

	Sem. I	Sem. II
Political Science	3 Cr.	3 Cr.
Sociology or Economics	3 Cr.	3 Cr.
The Church and Her Work†	2 Cr.	
Logic		3 Cr.
History, American or European	6 Cr.	6 Cr.
Elective	2 Cr.	
	16 Cr.	15 Cr.

The Pre-Legal Club

Students enrolled on the pre-legal program are eligible. Monthly meetings are held in the parlors of the home of the legal fraternity, Sigma Delta Kappa.

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

**A laboratory science may be substituted.

†This requirement applies to Lutheran students only.

Prominent speakers are secured, frequently in conjunction with the University Lawyers' Association. A wide range of subjects is covered. Current legal, political, and sociological problems predominate.

History

Mr. Schwiebert and Mr. Bauer

History aims to give the student an understanding of the present in the light of the past. Since history serves as a foundation for so many fields of learning, it is absolutely essential to a liberal education.

Major

Students majoring in history may select one of the following options:

(A) U. S. History Option: Students planning to do graduate work in American history are advised to take (a) 18 hours in U. S. history; (b) 6 hours in European history; (c) History 122 and 182; and (d) as many related courses in geography, political science, and sociology as possible.

(B) European History Option: Students planning to do graduate work in world history are advised to take (a) 18 hours in European history; (b) 6 hours in United States history; (c) History 182 and 184; and (d) as many related courses in geography, political science, and sociology as possible.

(C) Teaching Option: Students planning to teach are advised to follow Indiana Option Number Two, with (a) 12 hours in United States history, and (b) 12 hours in European history. Course 191 is required of candidates for the teaching major.

All prospective majors are strongly urged to take 6 hours of geography in the freshman year before starting their history work.

Students expecting to do graduate work in history should acquire a good reading knowledge of German and French before graduation.

Minor

Twelve credits are necessary for a minor.

Courses in History

51. Medieval Europe Sem. 1. Cr. 3.
A survey of medieval history. Schwiebert.

52. Modern Europe Sem. 2. Cr. 3.
Continuation of History 51. Schwiebert.

61. United States History to 1850 Sem. 1. Cr. 3.
A survey course in American history. Bauer.

62. United States History Since 1850 Sem. 2. Cr. 3.
A continuation of History 61. Bauer.

121. Ancient History Sem. 1. Cr. 3.
Prerequisite: History 51 and 52. Bauer.

122 English History Sem. 2. Cr. 3.
Prerequiiste: History 51 and 52. Bauer.

131. Renaissance and Reformation Sem. 1. Cr. 3.
Prerequisite: History 51 and 52. Schwiebert.

134. French Revolution and Napoleon Sem. 2. Cr .3.
Prerequisite: History 51 and 52.
Alternates with History 136.
[Not offered 1935-1936.] Schwiebert.

136. Europe Since 1815 Sem. 2. Cr. 3.
Prerequisite: History 51 and 52.
Alternates with History 134. Schwiebert.

141. The Colonial Period Sem. 1. Cr. 3.
Prerequisite: History 61 and 62.
Alternates with History 143. Bauer.

143. Growth of the West Sem. 1. Cr. 3.
Prerequisite: History 61 and 62.
Alternates with History 141.
[Not offered 1935-1936.] Bauer.

144. The National Period Sem. 2. Cr. 3.
Prerequisite: History 61 and 62.
Alternates with History 146.
[Not offered 1935-1936.] Bauer.

146. Recent American History Sem. 2. Cr. 3.
Prerequisite: History 61 and 62.
Alternates with History 144. Bauer.

182. Historical Criticism Sem. 2. Cr. 3.
A course designed primarily for juniors and seniors going into graduate work. Methodology in research and training for the study of sources will be stressed.
Prerequisite: 9 hours of history with an average of not less than B.
Alternates with History 184.
[Not offered 1935-1936.] Schwiebert.

184. History of Civilization Sem. 2. Cr. .3
Lectures and examinations will be given by men from all departments of the social sciences, natural sciences, humanities and liberal arts directly related to the hisory of civilization.
Prerequisite: This course is open to juniors and seniors with an average of B in all their work. Students from other departments with a similar standing in their respective fields are welcome.
Alternates with History 182. Schwiebert.

191. The Teaching of Social Studies in the High School Sem. 1. Cr. 2.
A teachers' course dealing with the objectives, teaching procedures, classroom equipment, tests and examinations, illustrative materials, selecting and teaching of units of instruction in history, political science, economics, and sociology in secondary schools.
Schwiebert.

199. Seminar Cr. 1-3.
Topics chosen for study of sources are to be mutually agreed upon by the individual students and head of the department. Hours and credit are to be arranged. Open to senior students with an average of B and a reading knowledge of French or German.
Prerequisite: History 131 and at least 15 hours of history.
Schwiebert.

Political Science

Mr. Schwiebert and Mr. Bauer

51. American National Government Sem. 1. Cr. 3.
Bauer.

52. The Governments of Europe Sem. 2. Cr. 3.
Bauer.

Sociology

Mr. Kroencke

The object of the work in sociology is two-fold: (1) to familiarize the student with the forces and laws under which society is formed, and (2) to bring him, so far as time permits, into personal contact with specific contemporary social problems.

Major

A major in sociology requires twenty-four credit hours and includes Economics 51 and 52. Economics 141 may also be included.

While not a preparation for social service work, courses in sociology may be considered as relevant basic material for those who expect, upon graduation, to enter one or another of the professional schools of social work or social service administration.

Minor

Twelve credits are necessary for a minor.

Courses in Sociology

51. Introduction to the Study of Human Society Sem. 1. Cr. 3.

52. Introduction to the Study of Human Society Sem. 2. Cr. 3.
A continuation of Sociology 51.

101. The Family Sem. 1. Cr. 3.
Prerequisite: Sociology 52.
Alternates with Sociology 131.
[Not offered 1935-1936.]

102. Community Organization Sem. 2. Cr. 3.
Prerequisite: Sociology 52.
Alternates with Sociology 132.
[Not offered 1935-1936.]

131. Criminology Sem. 1. Cr. 3.
Prerequisite: Sociology 52.
Alternates with Sociology 101.

132. Social Problems Sem. 2. Cr. 3.
Prerequisite: Sociology 52.
Alternates with Sociology 102.

PART V

THE COLLEGE OF ENGINEERING

Full-Time Staff

1935-1936

Howard Wilson Moody, Ph.D., Professor of Civil Engineering and Dean of the College.

Paul Allerton Cushman, Sc.D., Professor of Mechanical Engineering.

Carl William Lauritzen, B.S. in E.E., Assistant Professor of Electrical Engineering.

Moses Walter Uban, A.B., B.S. in M.E, Assistant Professor of Mechanical Engineering.

Herman Blickensderfer, B.S. in C.E., Instructor in Civil Engineering.

Donald D. Mallory, B.S. in M.E., Instructor in Electrical Engineering.

Part-Time Staff

Alfred H. L. Meyer, A.M., Associate Professor of Geography and Geology.

Ancil Ridgeway Thomas, Ph.D., Associate Professor of Physics.

Walter Eugene Thrun, Ph.D., Associate Professor of Chemistry.

Charles Harold Frick, M.S. in E.E., Assistant Professor of Mathematics.

Fred Henry Otto Kaufmann, Ph.D., Assistant Professor of Botany and Pharmacognosy.

A. M. Skinner, M.A., Assistant Professor of Business Management and Economics.

Herbert C. Graebner, M.B.A., Instructor in Business Management and Economics.

Herbert Umbach, Ph.D., Instructor in English Language and Literature.

H. H. Kumnick, A.B., LL.B., Part-time Instructor in Religion.

The College of Engineering

General Information

Purpose

Two objectives must be attained in a College of Engineering if any measure of success is to attend its graduates.

(1) A broad foundation in both the general theory and practice of engineering must be laid. There must be thorough-going training in the fundamental principles which underlie all divisions of engineering, as well as general exercises or projects in the practical application of these basic principles.

(2) A certain measure of specialization in the main divisions of engineering is necessary in view of the remarkable development of this field of learning in recent years. Hence the College of Engineering combines in its curricula a reasonable amount of specialization during the senior years in addition to a thorough grounding in the fundamentals during junior college years. In short, whereas mathematical and theoretical courses constitute the main body of the program in the first two years, the practical application of these fundamentals to engineering problems in a circumscribed field occupies the greater part of the last two years.

Historical Statement

Civil Engineering was offered as early as 1873, at the very foundation of the institution. Higher mathematics, surveying and engineering, taught by Professor M. E. Bogarte, constituted the chief courses of this engineering program. It appears that in 1898 a two-year program in Civil Engineering was offered in the so-called Scientific Department of that period. In 1903, a department of Manual Training was established. In 1909, the course of study was changed by Professor R. C. Yeoman to a three-year curriculum in Civil Engineering. Gradually other divisions of engineering were included. Finally, in 1917, the School of Engineering, now the College of Engineering, was organized. This school embraced the following divisions: Civil Engineering, Electrical Engineering, and Mechanical Engineering. In 1920 the standard four-year program was adopted for all divisions in accord with the best practice in schools of engineering.

Advantages of Location

Valparaiso University is located only forty-four miles from Chicago, the world's greatest railroad center and the foremost industrial center of the United States. Students in the College of Engineering are, therefore, within easy reach of engineering works of the first magnitude. They have the opportunity, at small cost of time and money, to make inspection trips to industrial plants, which are either under construction or in operation. However, the student of Valparaiso University need not confine himself entirely to engineering problems. He may pursue collateral scientific study in the other schools of the University, and also enjoy a wide variety of cultural contacts. He may also take advantage of the very unusual opportunities that are available in Chicago.

Engineering Society

The Engineering Society is an organization formed by students in the College of Engineering. All students in the college are eligible for membership in the Society. Meetings are held once or twice in each month, at which papers are presented upon subjects of general engineering interest by students, faculty, or invited speakers from among engineers prominent in industry. The Society also sponsors receptions for new students, inspection trips and banquets.

Frequently, motion picture films covering trips through great industrial plants or visits to engineering projects are shown in the "Little Theatre", which is located in the Engineering building. Thus, through social activities

and the other extra-curricular activities of the Society, the students in Engineering gain many cultural as well as professional advantages.

Students in Electrical Engineering have the privilege of membership in A.I.E.E., and the privilege of attending meetings of the Chicago Chapter.

Students in Mechincal Engineering have the privilege of membership in the Society of Automotive Engineers and the American Society for Metals.

Curricula

The College of Engineering offers the following curricula: Chemical Engineering (two-year program), Civil Engineering, Commercial Engineering, Electrical Engineering, and Mechanical Engineering.

Laboratories

Instruction in engineering is centralized in the Engineering Building. In this building are found the offices, recitation and lecture rooms, drafting rooms, shops and laboratories.

Chemical Engineering

The subjects are taught in the well-equipped laboratories of the Department of Chemistry.

Civil Engineering

The equipment for testing materials includes several vertical testing machines with all the necessary accessories for tension, compression, and transverse tests on iron, steel, cement, concrete, and brick.

The hydraulic laboratory is equipped for the study of problems where large quantities of flowing water are needed. A large size, direct-connected, electric motor-driven, centrifugal pump supplies water for investigations relating to the flow of water in flumes, large pipes, and conduits; to the discharge over dams and weirs, through racks, sluices and submerged orifices; and to other features encountered in water power and water supply developments.

A complete selection of surveying instruments includes those used in ordinary field practice, precise surveying, geodetic work, hydrographic surveying, water supply, and stream measurements.

The cement laboratory contains facilities for all types of experimentation upon cements, aggregates, and concrete.

Electrical Engineering

The electrical engineering laboratory is equipped with direct and alternating current generators and motors of all common types met with in practice, and with all the instruments necessary to make complete tests of their operation.

Mechanical Engineering

The mechanical engineering laboratories include (1) an engine laboratory in which are several steam engines, two-cycle and four-cycle gas engines, one marine-type gas engine, one nine-cylinder rotary airplane engine, and a Diesel engine. Standard apparatus for determining the analysis and calorific values of coals and gases is available. There are available, also, indicators, gauges, water and gas meters, scales and other necessary accessories. Adjoining the engine laboratory is a boiler upon which the usual boiler tests are made.

The laboratories of Mechanical Engineering also include (2) a well-equipped pattern and wood-working shop; (3) a foundry, moulding, and forge shop; (4) gas and electric furnaces for use in study of heat-treatment of metals; and (5) a splendidly equipped machine shop, where any type of metal working and machining may be done.

Admission

Requirements

A student desiring admission to the College of Engineering must present, in addition to the general requirements for admission to the freshman class

of the University, one and one-half units in Algebra, one unit in Plane Geometry, and one-half unit in Solid Geometry. A student deficient in Solid Geometry may be admitted as a conditioned student. The condition must be removed during the first semester of residence by passing Mathematics 01, Solid Geometry.

Faculty Adviser

At the beginning of each semester the students consult the Dean of Engineering concerning the selection of subjects and the arrangement of programs. He will keep in touch with the work of the students during the semester, receive reports on the progress made and suggest methods for improvement in work.

Requirements for Graduation

Degrees

Upon the recommendation of the faculty of the College of Engineering, the University confers the degree of Bachelor of Science. The diploma will contain a specific designation of the curriculum followed. Four years of work must be taken toward a degree in any of the following courses of study: Civil Engineering, Commercial Engineering, Electrical Engineering, and Mechanical Engineering. In order to become a candidate for a degree, the student must have satisfactorily completed 144 credit hours of work and have earned 144 quality points in any one of the curricula listed on the following pages. The student must also have taken at least his last year in residence at Valparaiso University. All rules and regulations of the University, except as herein noted, apply to the College of Engineering.

Inspection Trips

Inspection trips for visiting industrial plants are required of all enginneering students. These trips are arranged and conducted by members of the engineering faculty and are designed to illustrate the work and to relate the work of the various departments to that industry.

Freshman Lectures

The College of Engineering provides a series of lectures for freshmen. Attendance upon these lectures is required. The purpose of these lectures is to give the freshman a more adequate conception of the work of an engineer, to make clear the kind of training which furnishes the best preparation for the practice of the engineering profession, and to call attention to the methods of study which have been found to produce the most satisfactory results. The series of lectures necessarily includes subjects of general interest from the field of engineering.

Professional Degrees in Engineering

An engineering graduate of Valparaiso University is eligible to register as a candidate for one of the professional engineering degrees specified below:

The degree of Civil Engineer, Electrical Engineer, or Mechanical Engineer will be granted upon the submission of an acceptable thesis and not less than five years of professional experience subsequent to the receiving of the Bachelor of Science degree in which the applicant has supervised, directed, or designed engineering work, or has had responsible charge of instruction or research in engineering. The acceptability of the thesis and professional experience shall be determined by a committee of the faculty of the College of Engineering. No resident study is required and no tuition fees are charged. A fee of $10 must accompany the application for the professional engineering degree.

The procedure for candidates for professional degrees is as follows:

1. Prepare an outline for a thesis after consultation with the head of the department concerned.

2. Present a thesis subject and thesis outline to the Dean of the College of Engineering. As soon as these have been approved, the candidate will be regis-

tered in the Registrar's office. This registration must be completed not later than December 15th next preceding the date when the degree is to be conferred, but all candidates are urged to register at least one year earlier.

3. Submit the first draft of the thesis to the professor in charge not later than April 1, and the completed thesis in its final form not later than May 15. At least three correct copies must accompany the original typed thesis. The original typed copy of the thesis will be deposited in the University library. Two copies will be retained in the office of the Dean of Engineering and one copy in the office of the Registrar. A set of regulations governing the acceptable form and arrangement of thesis matter may be obtained by addressing The Registrar, Valparaiso University, Valparaiso, Indiana.

4. The candidate will be prepared to submit to an oral examination by a committee of the faculty of the College of Engineering, should the committee desire it. This examination will cover the candidate's professional experience and record and the materials included in the thesis. This committee will be appointed by the Dean of the College of Engineering and the examination will be held at an agreeable date between May 15 and Commencement Day.

5. Deposit the original thesis and copies in the office of the Registrar and pay the diploma fee to the office of the Business Manager of the University on or before the Monday next preceding the date the degree is to be conferred.

Professional degrees will be granted only in June. Attendance upon the commencement exercises is desirable but not required.

Curricula in Engineering

I. Chemical Engineering

General industrial development and, above all, progress in chemical industries have made chemical engineering one of the most important branches of the engineering profession. There is now a demand for men having a combined engineering and chemical training. For those having Chemical Engineering in view, the following two-year program has been arranged. To obtain a degree the last two years must be spent at a recommended School of Engineering which offers this work.

The Two-Year Program in Chemical Engineering

Freshman Year

First Semester			Rec.		Lab.	Cr.
Eng.	1.	Freshman Composition	3	+	0	3
Math.	51.	Mathematical Analysis	5	+	0	5
Rel.	1.	†The Bible	3	+	0	3
Chem.	51.	General Chemistry	3	+	2	4
C. E.	1.	Engineering Lectures	1	+	1	1
C. E.	11.	Engineering Drawing	0	+	9	3
						19

Second Semester			Rec.		Lab.	Cr.
Eng.	2.	Freshman Composition	3	+	0	3
Math.	52.	Mathematical Analysis	5	+	0	5
Chem.	52.	Inorganic Chemistry	3	+	2	4
Chem.	62.	Qualitative Analysis	0	+	6	2
C. E.	18.	Descriptive Geometry	0	+	9	3
C. E.	14.	Engineering Problems	0	+	3	1
						18

†This course is required of all students except those who have received exemption from the Committee on Admissions and Degrees.

Sophomore Year

First Semester			Rec.		Lab.	Cr.
Math.	111.	Differential Calculus	4	+	0	4
Phys.	51.	General Physics	3	+	3	4
Phys.	61.	Physics Problems	0	+	3	1
Chem.	106.	Quantitative Analysis, Gravimetric	1	+	9	4
C. E.	57.	Engineering Drawing	2	+	0	2
M. E.	59.	Machine Shop and Forge	0	+	6	2
						17

Second Semester			Rec.		Lab.	Cr.
C. E.	60.	Applied Mechanics	5	+	0	5
Math.	112.	Integral Calculus	4	+	0	4
Phys.	52.	General Physics	3	+	3	4
Phys.	62.	Physics Problems	0	+	3	1
Chem.	56.	Stoichiometry	1	+	0	1
Chem.	107.	Quantitative Analysis, Volumetric	1	+	9	4
						19

Note: With the approval of the Dean, the above program may be varied in order that it may agree as far as possible with the first two years of the program in Chemical Engineering in the institution which the student proposes to attend.

II. Civil Engineering

The curriculum in Civil Engineering is designed to accomplish two things: (1) It aims to give its graduates sufficient skill in certain technical operations to enable them to be of immediate value to an employer. The graduate enters civil engineering as a computer, draftsman, instrument man, timekeeper, or inspector; he should be able to do creditable work in any one of these lines. (2) The course aims to train men to analyze engineering problems scientifically and reach sound conclusions about them.

Civil engineering graduates at once engage upon work that qualifies them as: Surveyors, topographical engineers, drainage and irrigation engineers, sanitary engineers, highway engineers, railway engineers, contractors, builders, etc. Furthermore, many enter some service of the Government, such as the Geological Survey, the Coast and Geodetic Survey, the Bureau of Reclamation, the Supervising Architects' Office, the Bureau of Public Roads, some branch of the Mississippi River Commission, and the like.

The Curriculum of Civil Engineering
(Leading to the degree of Bachelor of Science)

Freshman Year

First Semester			Rec.		Lab.	Cr.
Chem.	51.	General Chemistry	3	+	2	4
Eng.	1.	Freshman Composition	3	+	0	3
Math.	51.	Mathematical Analysis	5	+	0	5
Rel.	1.	†The Bible	3	+	0	3
C. E.	1.	Engineering Lectures	1	+	1	1
C. E.	11.	Engineering Drawing	0	+	9	3
						19

Second Semester			Rec.		Lab.	Cr.
Chem.	52.	Inorganic Chemistry	3	+	2	4
Eng.	2.	Freshman Composition	3	+	0	3
Math.	52.	Mathematical Analysis	5	+	0	5
C. E.	14.	Engineering Problems	0	+	3	1
C. E.	16.	Plane Surveying	1	+	6	3
C. E.	18.	Descriptive Geometry	0	+	9	3
						19

†This course is required of all students except those who have received exemption from the Committee on Admissions and Degrees.

Sophomore Year

First Semester			Rec.		Lab.	Cr.
Math.	111.	Differential Calculus	4	+	0	4
Phys.	51.	General Physics	3	+	3	4
Phys.	61.	Physics Problems	0	+	3	1
C. E.	57.	Engineering Drawing	2	+	0	2
C. E.	61.	Topographic Surveying	2	+	9	5
						16

Second Semester			Rec.		Lab.	Cr.
Geol.	62.	Engineering Geology	3	+	3	4
Math.	112.	Integral Calculus	4	+	0	4
Phys.	52.	General Physics	3	+	3	4
Phys.	62.	Physics Problems	0	+	3	1
C. E.	60.	Applied Mechanics	5	+	0	5
						18

Junior Year

First Semester			Rec.		Lab.	Cr.
E. E.	107.	Electrical Circuits and Machinery	3	+	3	4
C. E.	107.	Curves and Earthwork	3	+	3	4
C. E.	115.	Graphics	0	+	6	2
C. E.	131.	Mechanics of Materials	5	+	0	5
C. E.	135.	Water Supply	3	+	3	4
						19

Second Semester			Rec.		Lab.	Cr.
Bot.	140.	Bacteriology, 2+4, Cr. 4, or				
E. E.	108.	Electrical Circuits and Machinery	3	+	3	4
C. E.	116.	Stresses	5	+	0	5
C. E.	126.	Roads and Pavements	3	+	6	5
C. E.	132.	Materials and Materials Testing	3	+	3	4
						18

Senior Year

First Semester			Rec.		Lab.	Cr.
C. E.	165.	Transportation Systems	4	+	0	4
C. E.	155.	Bridge Design	1	+	12	5
C. E.	161.	Sewerage	3	+	3	4
C. E.	163.	Reinforced Concrete	3	+	3	4
						17

Second Semester			Rec.		Lab.	Cr.
C. E.	166.	Masonry and Foundations	2	+	0	2
C. E.	154.	Hydraulics	2	+	3	3
C. E.	156.	Structural Design	0	+	9	3
C. E.	164.	Reinforced Concrete	3	+	3	4
C. E.	170.	Engineering Economics	3	+	0	3
C. E.	180.	Contracts and Specifications	3	+	0	3
						18

III. Commercial Engineering

The curriculum in Commercial Engineering has been established because of the need for men who are acquainted not only with engineering problems but also with those of finance, production, and distribution, or of organization, administration, and management. The need arises from the fact that vexing questions which involve both engineering and business management for their solution are common to all industrial or business organizations. Such prob-

lems, for instance, confront the purchasing department, the specifications department, the employment manager, the works manager, the production engineer, the planning department, the business manager, the accountant and auditor, the advertising manager, the sales manager, the general agent and the special representative. There is need then for a commercial engineer whose education and training will enable him effectively to cooperate with engineers in other fields and intelligently to bring to bear upon any problem his special knowledge of business management, so that in combined effort, the most valuable solution may be discovered.

In the following curriculum the fundamental courses of engineering predominate in the junior college years, whereas commercial and business subjects are stressed in the senior college years.

The Curriculum in Commercial Engineering
(Leading to the degree of Bachelor of Science)

Freshman Year

The courses for the freshman year are the same as those prescribed for students in Civil Engineering.

Sophomore Year

First Semester			Rec.		Lab.	Cr.
B. M.	41.	Elementary Accounting	3	+	0	3
Math.	111.	Differential Calculus	4	+	0	4
Phys.	51.	General Physics	3	+	3	4
Phys.	61.	Physics Problems	0	+	3	1
Econ.	51.	Principles of Economics	3	+	0	3
M. E.	61.	Machine Shop	0	+	9	3
						18

Second Semester			Rec.		Lab.	Cr.
B. M.	42.	Elementary Accounting	3	+	0	3
Geog.	56.	Economic Geography	3	+	0	3
Math.	112.	Integral Calculus	4	+	0	4
Phys.	52.	General Physics	3	+	3	4
Phys.	62.	Physics Problems	0	+	3	1
Econ.	52.	Principles of Economics	3	+	0	3
						18

Junior Year

First Semester			Rec.		Lab.	Cr.
C. E.	57.	Engineering Drawing	2	+	0	2
Econ.	143.	Business and Government (or Econ. 141, Labor Problems)	3	+	0	3
B. M.	151.	Business Policies	3	+	0	3
E. E.	107.	Electrical Circuits and Machinery	3	+	3	4
M. E.	107.	Heat Engines	4	+	3	5
						17

Second Semester			Rec.		Lab.	Cr.
C. E.	60.	Applied Mechanics	5	+	0	5
C. E.	115.	Graphics	0	+	6	2
E. E.	108.	Electrical Circuits and Machinery	3	+	3	4
M. E.	108.	Heat Engines	4	+	3	5
						16

Senior Year

First Semester			Rec.		Lab.	Cr.
B. M.	121.	Principles of Marketing	3	+	0	3
B. M.	131.	Business Law	3	+	0	3
Econ.	143.	Business and Government (or Econ. 141, Labor Problems)	3	+	0	3
C. E.	131.	Mechanics of Materials	5	+	0	5
C. E.	135.	Water Supply	3	+	3	4
						18

Second Semester			Rec.		Lab.	Cr.
B. M.	106.	Business Finance	3	+	0	3
B. M.	132.	Business Law	3	+	0	3
Econ.	162.	Investments (or Econ. 152, Money and Banking)	3	+	0	3
C. E.	132.	Materials and Materials Testing	3	+	3	4
C. E.	154.	Hydraulics	2	+	3	3
C. E.	170.	Engineering Economics	3	+	0	3
						19

IV. Electrical Engineering

The curriculum in Electrical Engineering affords the student a thorough training in the fundamental principles of mechanics and electricity. In common with other divisions, the courses of the first two years include such fundamental studies as English, mathematics, chemistry, physics, drawing, shop work, and surveying. Specialization begins in the sophomore year with the study of electricity in Physics and in Elements of Electricity. The professional studies are concentrated in the junior and senior years.

All classroom work in Electrical Engineering is paralleled by thorough courses in shops and laboratory. Here the student not only acquires a working knowledge of electrical instruments and machines, but also employs them in definite tests, and this applies the principles in studies in the classroom to practical problems in the laboratory. Special effort is made in all the work to develop initiative and independent thinking.

According to their particular interests and aptitudes, graduates from the curriculum in Electrical Engineering engage in the folowing types of engineering work: research, design, maintenance, operating, construction and sales. The majority enter the employment of industries and corporations that own and operate electric lighting plants, electric railway, electric power transmission, or telephone plants, in the expectation of ultimately becoming superintendents, chief engineers, managers, or owners. They may, also, enter the employment of contractors for the construction of electrical plants, or of manufacturers for the production of electrical and allied machinery. Finally, a number of the graduates may secure positions as administrators or teachers in engineering colleges.

The Curriculum in Electrical Engineering

(Leading to the degree of Bachelor of Science)

Freshman Year

The courses for the freshman year are the same as those prescribed for students in Civil Engineering.

Sophomore Year

First Semester			Rec.		Lab.	Cr.
Math.	111.	Differential Calculus	4	+	0	4
Phys.	51.	General Physics	3	+	3	4
Phys.	61.	Physics Problems	0	+	3	1
C. E.	57.	Engineering Drawing	2	+	0	2
C. E.	59.	Machine Shop and Forge	0	+	6	2
M. E.	51.	Mechanisms	1	+	6	3
						16

Second Semester			Rec.		Lab.	Cr.
Math.	112.	Integral Calculus	4	+	0	4
Phys.	52.	General Physics	3	+	3	4
Phys.	62.	Physics Problems	0	+	3	1
C. E.	60.	Applied Mechanics	5	+	0	5
E. E.	52.	Elements of Electricity	3	+	3	4
						18

Junior Year

First Semester			Rec.		Lab.	Cr.
Math.	171.	Differential Equations	3	+	0	3
Phys.	133.	Electrical and Magnetic Measurements	1	+	6	3
C. E.	131.	Mechanics of Materials	5	+	0	5
E. E.	109.	D. C. Machinery	5	+	0	5
E. E.	113.	D. C. Laboratory	0	+	6	2
						18

Second Semester			Rec.		Lab.	Cr.
Math.	172.	Differential Equations	3	+	0	3
C. E.	132.	Materials and Materials Testing	3	+	3	4
C. E.	154.	Hydraulics	2	+	3	3
C. E.	180.	Contracts and Specifications	3	+	0	3
E. E.	114.	D. C. Laboratory	0	+	6	2
E. E.	116.	A. C. Theory	3	+	0	3
						18

Senior Year

First Semester			Rec.		Lab.	Cr.
M. E.	107.	Heat Engines	4	+	3	5
M. E.	161.	Factory Management	3	+	0	3
E. E.	151.	A. C. Machinery	5	+	0	5
E. E.	153.	A. C. Laboratory	0	+	6	2
E. E.	167.	Communication	3	+	0	3
						18

Second Semester			Rec.		Lab.	Cr.
C. E.	170.	Engineering Economics	3	+	0	3
M. E.	108.	Heat Engines	4	+	3	5
E. E.	152.	A. C. Machinery	5	+	0	5
E. E.	154.	A. C. Laboratory	0	+	6	2
E. E.	168.	Communication	3	+	0	3
						18

V. Mechanical Engineering

The curriculum in Mechanical Engineering is designed (1) to train students in those technical and scientific subjects in which the engineer must be well grounded, and (2) to permit students to specialize in the field of mechanical engineering. Special stress is laid upon the following items: preparation of the necessary working drawings and moulds; work in forge, foundry, and machine shop; and familiarity with the operation of power and electric light plants, and with the construction of power systems. This practical work is accompanied by instruction in such subjects as heat engineering, thermodynamics, steam and gas engineering, refrigeration, heating, and ventilating.

The curriculum is designed to prepare men to become designing, production, and sales engineers, and managers of manufacturing enterprises; designing, and operating engineers of mechanical equipment for hotels, office buildings, and residences; and specialists in the combustion of fuels, in lubrication, and in metallography, for government research bureaus or for large corporations.

The Curriculum in Mechanical Engineering

(Leading to the degree of Bachelor of Science)

Freshman Year

The courses for the freshman year are the same as those prescribed for the students in Civil Engineering.

Sophomore Year

First Semester			Rec.		Lab.	Cr.
Math.	111.	Differential Calculus	4	+	0	4
Phys.	51.	General Physics	3	+	3	4
Phys.	61.	Physics Problems	0	+	3	1
M. E.	51.	Mechanisms	1	+	6	3
C. E.	57.	Engineering Drawing	2	+	0	2
M. E.	61.	Machine Shop	0	+	9	3
						17

Second Semester			Rec.		Lab.	Cr.
Math.	112.	Integral Calculus	4	+	0	4
Phys.	52.	General Physics	3	+	3	4
Phys.	62.	Physics Problems	0	+	3	1
C. E.	60.	Applied Mechanics	5	+	0	5
M. E.	54.	Elements of Pattern Making	0	+	6	2
M. E.	60.	Foundry	0	+	6	2
						18

Junior Year

First Semester			Rec.		Lab.	Cr.
C. E.	131.	Mechanics of Materials	5	+	0	5
E. E.	107.	Electrical Circuits and Machinery	3	+	3	4
M. E.	107.	Heat Engines	4	+	3	5
M. E.	117.	Machine Design	2	+	6	4
						18

Second Semester			Rec.		Lab.	Cr.
C. E.	132.	Materials and Materials Testing	3	+	3	4
E. E.	108.	Electrical Circuits and Machinery	3	+	3	4
M. E.	108.	Heat Engines	4	+	3	5
M. E.	118.	Machine Design	2	+	6	4
						17

Senior Year

First Semester			Rec.		Lab.	Cr.
C. E.	115.	Graphics	0	+	6	2
M. E.	153.	Heat Power Engineering	4	+	3	5
M. E.	161.	Factory Management	3	+	0	3
M. E.	163.	Engine Design	1	+	6	3
M. E.	165.	Metallography	1	+	6	3
M. E.	175.	Heating and Ventilating	2	+	0	2
						18

Second Semester			Rec.		Lab.	Cr.
C. E.	154.	Hydraulics	2	+	3	3
C. E.	170.	Engineering Economics	3	+	0	3
C. E.	180.	Contracts and Specifications	3	+	0	3
M. E.	154.	Heat Power Engineering	4	+	3	5
M. E.	166.	Heat Treatment of Metals	0	+	3	1
M. E.	176.	Refrigeration	3	+	0	3
						18

Department of Civil Engineering

Professor Moody, Mr. Blickensderfer and Mr. Mallory

1. ENGINEERING LECTURES Sem. 1. 1+1, Cr. 1.
A series of lectures by members of the engineering faculty and invited speakers. Subjects considered: the field of engineering; choice of major; study ing and note-taking; the use of the library.

11. ENGINEERING DRAWING Sem. 1. 0+9, Cr. 3.
Lettering, care and use of instruments, principles of orthographic projection, common engineering geometry, working drawings, special sections, common fasteners, tracing and duplicating.

14. ENGINEERING PROBLEMS Sem 2. 0+3, Cr. 1.
Typical elementary problems from various fields to suggest to the student the nature and scope of engineering work. Lectures and problems are designed as an orientation course. Instruction in theory and use of slide rule included.

16. PLANE SURVEYING Sem. 2. 1+6, Cr. 3.
Field and drafting-room work with recitations covering the fundamentals and practice of plane surveying. Required of all engineering students except chemicals.
Prerequisite: Math. 51.
Laboratory fee, $6.00; deposit, $4.00.

18. DESCRIPTIVE GEOMETRY Sem. 2. 0+9, Cr. 3.
A study of points, lines and planes in space including intersection of solids, development of surfaces and the principles of shades and shadows. Emphasis is placed on the solution of practical problems, involving the theory covered.
Prerequisite: C. E. 11.

57. ENGINEERING DRAWING Sem. 1. 2+0, Cr. 2.
Shop sketching, pictorial representation, including isometric, cabinet and perspective drawing, platting, graphs, topographical maps, simple lay-out of structural steel, electrical symbols, and architectural conventions.
Prerequisite: C. E. 11.

60. APPLIED MECHANICS Sem. 2. 2+0, Cr. 5.
Covering statics and kinetics. Composition and resolution of forces; principles of equilibrium of rigid bodies.
Prerequisite: Math. 111 and 112, or Math. 112 concurrently with C. E. 60.

61. TOPOGRAPHIC SURVEYING Sem. 1. 2+9, Cr. 5.
Field and drafting-room work with recitations including the theory and use of plane table, stadia, sextant, and solar attachment to the transit, in triangulation, city surveying, topographic surveying, and hydrographic surveying.
Prerequisite: C. E. 16.
Laboratory fee, $6.00; deposit, $4.00.

107. CURVES AND EARTHWORK Sem. 1. 3+3, Cr. 4.
Recitations and field work in simple, compound, and transition curves as related to railways, highways, and canals. Sufficient field and office work is given to thoroughly acquaint the student with the best modern practice in the computation of earthwork quantities, including the use of such equipment as the polar planimeter, calculators, graphs, tables, and the mass diagram.
Prerequisite: C. E. 16.
Laboratory fee, $3.00; deposit, $4.00.

115. GRAPHICS Each Sem. 0+6, Cr. 2.
Graphical determination of stresses in roof and bridge trusses under action of static and moving loads; also cranes, derricks and similar structures.
Prerequisite: C. E. 60.

116. STRESSES Sem. 2. 5+0, Cr. 5.
The determination of reactions, moments, and shears in beams and simple trusses. Stresses in roof and bridge trusses under static and dynamic loads by the algebraic method, with some attention to the graphical method.
Prerequisite: C. E. 60 and C. E. 115.

126. ROADS AND PAVEMENTS Sem. 2. 3+6, Cr. 5.
Design, construction, and maintenance of various types of road and street wearing courses and foundations. Particular attention is given to problems of drainage, grade curves, width, etc. Following Government practice, complete surveys and plans are made for specific highway improvement, and quantities and cost are estimated.
Prerequisite: C. E. 16.
Laboratory fee, $6.00; deposit, $4.00.

131. MECHANICS OF MATERIALS Sem. 1. 5+0, Cr. 5.
Principles of mechanics applied to structural members and engineering materials; mathematical theory of elasticity; interpretation of results of actual tests of materials; study of shapes and other products given in the steel company's hand-books.
Prerequisie: C. E. 60.

132. MATERIALS AND MATERIALS TESTING Sem. 2. 3+3, Cr. 4.

A study of materials commonly used in engineering. Study of theory, construction, and use of testing machines. The methods of commercial testing; determination of the properties of construction materials by mechanical tests. The effect of heat upon metals is investigated and the S. A. E. specifications are studied.

Prerequisite: C. E. 131.
Laboratory fee, $3.00; deposit, $4.00.

135. WATER SUPPLY Sem. 1. 3+3, Cr. 4.

Sources and purity of water supplies and works for the distribution of water. The design of a water supply system from given data.

154. HYDRAULICS Sem. 2. 2+3, Cr. 3.

Lectures, recitations, and laboratory work on the laws of motion of fluids; covering flow through orifices, open channels, and weirs. Also hydrostatic pressure on dams and gates; the theory of impulse wheels, turbines, and centrifugal pumps; the fundamentals underlying hydraulic development.

Prerequisite: Math. 112.
Laboratory fee, $3.00; deposit, $4.00.

155. BRIDGE DESIGN Sem. 1. 1+12, Cr. 5.

The design of a plate girder bridge and design, with all computations and plans, of a simple railroad truss bridge. General detail plans show location of all rivets, make-up and relation of all members and connections. Final report gives full list of shapes, plates, etc., and a classified analysis of the estimated weight of the entire structure.

Prerequisite: C. E. 115 and 116.

156 STRUCTURAL DESIGN Sem. 2. 0+9, Cr. 3.

General principles of structural design. Girders, columns, and roof trusses. Design of steel frame buildings.

Prerequisite: C. E. 116.

161. SEWERAGE Sem. 1. 3+3, Cr. 4.

The principles and practice in the design and construction of storm, sanitary, and combined systems of sewers; sewage treatment and disposal, with construction problems on the details of plants for same.

163. REINFORCED CONCRETE Sem. 1. 3+3, Cr. 4.

Materials for concrete; the mixing, placing and curing of concrete; properties of plain concrete; theory of reinforced concrete.

Prerequisite: C. E. 131.
Laboratory fee, $3.00; deposit, $4.00.

164. REINFORCED CONCRETE Sem. 2. 3+3, Cr. 4.

The design of retaining walls, dams, and girder bridges. The complete design, with working drawings and reinforcing schedules, of a reinforced concrete building.

Prerequisite: C. E. 163.
Laboratory fee, $3.00; deposit, $4.00.

165. TRANSPORTATION SYSTEMS Sem. 1. 4+0, Cr. 4.

Development and relations in railway and highway transportation with some attention to air and inland water transportation. Railway maintenance, highway location, economic comparison, financing and organizing, transportation surveys, regulation and control, coordination.

Prequisite: C. E. 107.

166. MASONRY AND FOUNDATIONS Sem. 2. 2+0, Cr. 2.

Materials for masonry and the methods of using them. Foundation design; pneumatic caissons; the freezing process; piling; cofferdams; pier foundations in open wells; ordinary bridge piers; cylinders and pivot piers; bridge abutments; spread footings for building foundations.

170. ENGINEERING ECONOMICS Sem. 2. 3+0, Cr. 3.

A study of the fundamental principles of economics and their application to engineering structures and operations.

180. CONTRACTS AND SPECIFICATIONS Sem. 2. 3+0, Cr. 3.

Legal, contractual, and personal engineering relations; development of contract principles; preparation of engineering contracts.

Department of Electrical Engineering

Assistant Professor Lauritzen and Mr. Mallory

52. ELEMENTS OF ELECTRICITY Sem. 2. 3+3, Cr. 4.

An elementary course in electricity introducing fundamental laws and principles; also units, instruments, induction, resistance and capacity. Includes laboratory work on the manipulation of electrical apparatus, and instru-

ments; the practical application of theory and the study of safety methods.
Prerequisite: Taken concurrently with Math. 112 and Physics 62.
Laboratory fee, $3.00; deposit, $4.00.

107. Electrical Circuits and Machinery Sem. 1. 3+3, Cr. 4.
A general course in the study of electric machinery and power, direct current apparatus, generation, measurement and application of electric power. Experimental work on direct circuits, including he use and calibration of instruments and the testing of direct current apparatus. Course is offered to non-electrical engineering students.
Prerequisite: Physics 62, Math. 112.
Laboratory fee, $3.00; deposit, $4.00.

108. Electrical Circuits and Machinery Sem. 2. 3+3, Cr. 4.
A continuation of course 107, with special emphasis on alternating current apparatus and circuits.
Prerequiiste: E. E. 107, Math. 112.
Laboratory fee, $3.00; deposit, $4.00.

109. Direct Current Machinery Sem. 1. 5+0, Cr. 5.
A course for junior electrical engineers including the theory of direct current dynamo electric machinery and circuits. Characteristic curves, parallel operation, operating characteristics, theory of commutation, rating, and efficiency.
Prerequisite: E. E. 52.

113. D. C. Laboratory Sem. 1. 0+6, Cr. 2.
A laboratory course to be taken with E. E. 109. The testing, operating characteristics, and rating of direct current apparatus.
Laboratory fee, $6.00; deposit, $4.00.

114. D. C. Laboratory Sem. 2. 0+6, Cr. 2.
A continuation of E. E. 113.
Prerequisite: E. E. 109.
Laboratory fee, $6.00; deposit, $4.00.

116. Alternating Current Theory Sem. 2. 3+0, Cr. 3.
Study of flux and e. m. f. waves, circuit constants, measurements, vectors, single and polyphase circuits.
Prerequisite: E. E. 109.

151. Alternating Current Machinery Sem. 1. 5+0, Cr. 5.
A course for senior electrical engineers including the study of alternating current circuits and machinery. The application of mathematics and graphics to alternating current circuits. Transient and high frequency phenomena. Hysteresis and eddy currents. Measurements of alternating current quantities. Transformers, induction motors, and synchronous machines.

152. Alternating Current Machinery Sem. 2. 5+0, Cr. 5.
A continuation of E. E. 151.
Prerequisite: E. E. 151.

153. A. C. Laboratory Sem. 1. 0+6, Cr. 2.
A laboratory course to be taken with E. E. 151. The testing of alternating current circuits and apparatus. Operating and efficiency tests of transformers and alternating current machinery.
Laboratory fee, $6.00; deposit, $4.00.

154. A. C. Laboratory Sem. 2. 0+6, Cr. 2.
A continuance of E. E. 153.
Prerequisite: E. E. 153.
Laboratory fee, $6.00; deposit, $4.00.

167. Communication Sem. 1. 3+0, Cr. 3.
The theory of thermionic emission, considered with the characteristics, operation and application of the vacuum tube.
Prerequisite: Senior E. E. or by permission.

168. Communication Sem. 2. 3+0, Cr. 3.
Continuation of E. E. 167.

Department of Mechanical Engineering

Professor Cushman and Assistant Professor Uban

51. Mechanisms Sem. 1. 1+6, Cr. 3.
A study of the various elemental mechanisms used in machine construction; including instant centers, velocity and velocity diagrams, parallel and straight line motions, belt and pulley layouts, and the design of cams and gears.

54. Elements of Pattern Making Sem. 2. 0+6, Cr. 2.
Care and use of woodworking tools and machinery. Practice in the fundamental principles of joinery applied to individual projects. Making of simple

patterns in one piece, coring, and split patterns. Rules of shrinkage, clearance, rapping, and finishing allowance.
Laboratory fee, $6.00; deposit, $4.00.

59. MACHINE SHOP AND FORGE Sem. 1. 0+6, Cr. 2.
Hand working of metals. Care and operation of common machine tools, as drill presses, lathes, shapers, millers, grinders and saws, simple forging, welding, and heat treating.
Laboratory fee, $6.00; deposit, $4.00.

60. FOUNDRY Sem. 2. 0+6, Cr. 2.
The making of bench and floor moulds, green and baked sand cores, aluminum and brass furnace practice and operation. Cupola practice for cast iron with the determination of charges and the composition of the resultant castings.
Laboratory fee, $6.00; deposit, $4.00.

61. MACHINE SHOP Sem. 1. 0+9, Cr. 3.
This course completes the work described under No. 59. In addition, particular attention is paid to jigs, fixtures, and automatic machinery as used in manufacturing processes.
Required of Mechanical Engineers.
Laboratory fee, $6.00; deposit, $4.00.

107. HEAT ENGINES Sem. 1. 4+3, Cr. 5.
Thermodynamics; the theory of gases and vapors, their laws and behavior; engine and compressor cycles. The types, mechanical features, and performance of air compressors and engines, and gas, oil, and vapor piston engines. The laboratory work includes tests of bearings, belts, and other mechanical equipment, the testing of oils, a study of carburetors and fuel pumps, and of valves and valve gears for internal combustion engines. Internal combustion engine and air engine tests are made.
Laboratory fee, $3.00; deposit, $4.00.

108. HEAT ENGINES Sem. 2. 4+3, Cr. 5.
A continuation of M. E. 107. Includes the study of governors, steam engine valve gears, turbines, fuels and combustion, boilers, furnaces, grates, pumps, condensers, and other heat exchanges used in power plants. The laboratory work includes further tests on internal combustion engines, steam engine valve setting, flue gas analysis, the steam engine indicator, the steam calorimeter; and tests on air compressors, steam engines, and boilers.
Laboratory fee, $3.00; deposit, $4.00.

117. MACHINE DESIGN Sem. 1. 2+6, Cr. 4.
Theory of machine design and applied problems in design of fly-wheels, belts, ropes, chains, brakes, clutches, cylinders, riveted joints, keys, cotters, fastenings, shafts, couplings, journals, bearings, spur gearings, and springs.
Prerequisite: M. E. 51.

118. MACHINE DESIGN Sem. 2. 2+6, Cr. 4.
Continuation of M. E. 117, but more advanced in character and covers analysis of forces and design of parts, considering wear, dynamic forces, critical speeds, and the application of the theory of elasticity.

153. HEAT POWER ENGINEERING Sem. 1. 4+3, Cr. 5.
Particular attention is paid in this course to the design, operation, and special features of the larger types of power equipment and plants. The different types of prime movers are compared with the view of developing the principles that underlie an intelligent selection for a particular use. The uniflow engine, the turbine, and the Diesel engine are studied in some detail, and a study is made of heat transmissions. The laboratory work includes the analysis of fuels, and the testing of fans and blowers.
Laboratory fee, $3.00; deposit, $4.00.

154. HEAT POWER ENGINEERING Sem. 2. 4+3, Cr. 5.
A continuation of M. E. 153. Boilers, furnaces, pumps, condensers, feed water heaters, economizers, air preheaters, evaporators, feed water treatment, instruments, power plant finance and economics. The layout of power plants of various sizes is studied. The laboratory work includes tests and heat balances of actual power plants, including one on a large modern Northern Indiana Public Service Company station.
Laboratory fee, $3.00; deposit, $4.00.

161. FACTORY MANAGEMENT Sem. 1. 3+0, Cr. 3.
Organization and lay-out; selection, placement, and wage payment of laborers; scientific management in production.
Prerequisite: Senior standing.

163. ENGINE DESIGN Sem. 1. 1+6, Cr. 3.
Design and details of steam and internal combustion engines.

165. METALLOGRAPHY Sem. 1. 1+6, Cr. 3.

Physical metallography of ferrous, non-ferrous, and alloy metals. Microscopic study and physical testing of a representative variety of specimens. Theory of heat treatment begun.

Laboratory fee, $6.00; deposit, $4.00.

166. HEAT TREATMENT OF METALS Sem. 2. 0+3, Cr. 1.

Laboratory experiments in heat treatment of metals and alloys. Annealing, hardening, normalizing, spherodizing, and carburizing and their effects on such physical characteristics as tensile strength, structure, hardness, and ductility.

Laboratory fee, $3.00; deposit, $4.00.

175. HEATING AND VENTILATING Sem. 1. 2+0, Cr. 2.

A study of methods of heating and ventilating residences, public buildings, and industrial plants. The ventilation of tunnels, shafs, and mines receives some attention. During the last few weeks a small heating and ventilating plant is designed.

176. REFRIGERATION Sem. 2. 3+0, Cr. 3.

Theory and design of refrigeration and air conditioning systems.

PART VI

THE COLLEGE OF PHARMACY

Full-Time Staff

1935-1936

Frederick V. Lofgren, Ph.D., *Professor of Pharmacy and Pharmacology and Dean of the College.*

Arthur Albert Harwood, Ph.D., *Associate Professor of Pharmaceutical Chemistry.*

Fred Henry Otto Kaufmann, Ph.D., *Assistant Professor of Botany and Pharmacognosy.*

Part-Time Staff

1935-1936

Frank Roy Elilott, Ph.D., *Professor of Zoology.*

Ancil Ridgeway Thomas, Ph.D., *Associate Professor of Physics.*

Walter Eugene Thrun, Ph.D., *Associate Professor of Chemistry.*

Charles Harold Frick, M.S., in E.E., *Assistant Professor of Mathematics.*

Herbert C. Graebner, M.B.A., *Instructor in Business Management and Economics.*

Myers E. Zimmerman, A.B., *Instructor in Shorthand and Typewriting.*

Henry H. Kumnick, A.B., LL.B., *Part-Time Instructor in Religion.*

Joseph Lien, A.B., *Part-Time Instructor in Chemistry.*

The College of Pharmacy

General Information

History

The College of Pharmacy, which graduated its first class in 1893, offered its students at that time a fifty weeks' course for the purpose of giving the men that engaged in the profession a slight knowledge of the science of pharmacy. Meanwhile, the tremendous advances in the fields of medicines, chemistry, and allied sciences made it necessary for the pharmacist to engage in a more extensive study of his work in order to retain his place in the community. This need was met by organizing curricula of two and three years' duration. They have sufficed up to the present. However, recent surveys of pharmaceutical education indicates that a minimum four-year curriculum is now indispensable. This fact has led the College of Pharmacy to introduce such a curriculum, as the minimum, beginning with the school year 1930-1931. In fact, beginning with the school year 1932-1933, all the recognized schools and colleges of pharmacy in the United States have established a four-year curriculum as the minimum.

Purpose

A recent survey of pharmacy made by an impartial observer states that pharmacy is without question a profession as well as a business. Recognizing the truth of this observation, the purpose is to give graduates (1) sound instruction in the fundamental sciences with which a pharmacist has to deal, (2) thorough training along the practical lines of his profession, and (3) as broad a cultural background of general knowledge as is possible within the prescribed time. Such training should serve to give him high professional and business standing in the community.

Recognition

The College holds membership in the American Association of Colleges of Pharmacy. The object of the Association is to promote the interests of pharmaceutical education. All schools holding membership must maintain certain minimum requirements for curriculum, equipment, entrance and graduation. It has been the influence of this association which has caused pharmacy curricula to change from time to time.

Equipment

Eight laboratories in Science Hall and the Biology Building furnish ample facilities for the students to do their practical work. The main chemical laboratory and the pharmacy laboratory are each able to accommodate several hundred students. The dispensing laboratory is well supplied with modern prescription equipment. The materia medica room is fitted with individual desks and lockers for pharmacognosy and contains display cabinets filled with samples of all the official crude drugs, also chemicals and pharmaceutical apparatus. There are also special laboratories for Bacteriology, Botany, and Physiology. A good working library, which also has the latest publications in the pharmaceutical field, is maintained in connection with the main University library.

Valparaiso University Pharmaceutical Association

The Valparaiso University Pharmaceutical Association was organized as an extra-curricular activity in order to foster a student interest in the scientific and business aspects of pharmacy. The Association meets monthly and all pharmacy students are eligible to membership. The program consists of speeches by men connected with pharmacy, movies on related subjects, and occasionally participation by the members. Among the duties of the Association are the arrangement of the annual inspection trips to the various large pharmaceutical manufacturers and also the preparations for the annual spring picnic and other social events.

Field Trips

The faculty annually arranges inspection trips to the pharmaceutical manufacturing establishments in such cities as Chicago, Indianapolis, and Detroit, so that the students may have some understanding of the preparation of chemicals and galenicals upon a commercial scale.

Admission

The requirements for admission to the College of Pharmacy as a freshman, or to advanced standing, are the same as for the College of Liberal Arts of this University, except that the minimum age for entrance is 17 years.

Graduation

The degree of Bachelor of Science in Pharmacy requires the satisfactory completion of 135 credits of the four-year curriculum with a minimum of 135 quality points, the first, second and third years of which may have been taken in some other recognized college or school of pharmacy.

Students entering with advanced standing from non-pharmacy schools must earn as a minimum two full years of credit in a school of pharmacy in order to be eligible for the degree of Bachelor of Science in Pharmacy.

Pre-Pharmacy Program

The College of Liberal Arts offers a one-year Pre-Pharmacy program to meet the entrance requirement of those colleges or schools of pharmacy which require one year of prescribed college work before beginning the specified work in pharmacy.

See the Dean of the College of Pharmacy concerning this program.

The Four-Year Curriculum

The college offers a four-year curriculum leading to the degree of Bachelor of Science in Pharmacy (B.S. in Pharmacy).

This curriculum prepares the student (1) for the duties of the retail pharmacist, (2) for such positions as those of hospital pharmacist and analytical chemist in pharmaceutical and food laboratories, and (3) for employment in various branches of government service. The courses offered in the curriculum include not only those of the fundamental sciences involved in the study of pharmacy, but also such as are of general cultural value. During the last two years the student may take four or more credits of elective work which secure for him additional training in commercial management, analytical chemistry, manufacturing pharmacy or botany. Students having the medical profession in view may substitute courses in zoology and thus prepare themselves for admission to a medical school.

The Four-Year Curriculum

(Leading to the degree of Bachelor of Science in Pharmacy)

Freshman Year

First Semester			Class		Lab.	Cr.
Pharm.	1.	Pharmaceutical Technique	2	+	3	3
English	1.	Freshman Composition	3	+	0	3
Chem.	53.	General Chemistry	3	+	3	4
Botany	51.	General Botany	2	+	4	4
Math.	51.	College Algebra	4	+	0	4
						18

Second Semester			Class		Lab.	Cr.
Pharm.	28.	Pharmaceutical Mathematics	2	+	0	2
Pharm.	30.	Pharmaceutical Latin	2	+	0	2
English	2.	Freshman Composition	3	+	0	3
Chem.	54.	Inorganic Chemistry	3	+	0	3
Chem.	60.	Qualitative Analysis	0	+	9	3
Botany	52.	General Botany	2	+	4	4
						17

Sophomore Year

First Semester		Class		Lab.	Cr.
Pharm. 75.	Operative Pharmacy	2	+	3	3
Pharm. 81.	Theory of Pharmacy: Inorganic	3	+	3	3
Chem. 101.	Organic Chemistry	3	+	6	5
Phys. 51.	General Physics	3	+	3	4
Econ. 51.	Principles of Economics	3	+	0	3
					18

Second Semester		Class		Lab.	Cr.
Pharm. 76.	Operative Pharmacy	2	+	3	3
Rel. 2.	The Life and Teachings of Jesus*†	3	+	0	3
Chem. 102.	Organic Chemistry	2	+	6	4
Phys. 52.	General Physics	3	+	3	4
Econ. 52.	Principles of Economics	3	+	0	3
					17

Junior Year

First Semester		Class		Lab.	Cr.
Pharm. 103.	Pharmacognosy	3	+	3	4
Pharm. 111.	Elementary Dispensing	1	+	3	2
Chem. 109.	Quantitative Analysis, Volumetric	2	+	6	4
Zool. 75.	Elementary Physiology	3	+	3	4
Rel. 1.	The Bible*†	3	+	0	3
					17

Second Semester		Class		Lab.	Cr.
Pharm. 112.	Elementary Dispensing	1	+	3	2
Pharm. 104.	Pharmacognosy	3	+	3	4
Pharm. 146.	History of Pharmacy and Chemistry or				
Pharm. 148.	Pharmaceutical Jurisprudence	2	+	0	2
Pharm. 140.	Theory of Pharmacy: Organic	4	+	0	4
Botany 140.	Bacteriology	2	+	6	4
					16

Senior Year

First Semester		Class		Lab.	Cr.
Pharm. 155.	Advanced Dispensing	1	+	3	2
Pharm. 151.	Pharmacology, Toxicology, and Therapeutics	3	+	0	3
Pharm. 161.	Pharmacological Standardization	0	+	3	1
Pharm. 177.	Pharmacopoeial Assay	2	+	6	4
Pharm. 185.	Pharmacopoeial Chemistry	3	+	0	3
Pharm. 123.	Lettering	0	+	2	1
Zool. 155.	Public Health	3	+	0	3
					17

Second Semester		Class		Lab.	Cr.
Pharm. 156.	Advanced Dispensing	1	+	3	2
Pharm. 152.	Pharmacology, Toxicology and Therapeutics	3	+	0	3
Pharm. 146.	History of Pharmacy and Chemistry or				
Pharm. 148.	Pharmaceutical Jurisprudence	2	+	0	2
Pharm. 180.	U. S. P. and N. F.	2	+	0	2
Pharm. 124.	Lettering	0	+	2	1
Chem. 138.	Bio-Chemistry	2	+	3	3
Rel. 151.	The Church and Her Work**	2	+	0	2
					15

*These courses are required of all students except those who have received exemption from the Committee on Admissions and Degrees.

**Required of Lutheran students only.

†Recommended electives for those granted exemption from courses in religion: General Psychology 51, Introduction to the Study of Human Society 51-52, Ethics 101, Philosophy 51, 52, 141, 142, Principles of Marketing 121, Market Administration 122, Quantitative Analysis; Gravimetric 106, Elementary Physical and Theoretical Chemistry 184, Foreign Language.

Courses of Instruction

Pharmacy

Professor Lofgren, Associate Professor Harwood,

Mr. Zimmerman

1. Pharmaceutical Technique Sem. 1. 2+3, Cr. 3.
A course dealing with the fundamental principles of pharmaceutical operation.
Laboratory fee, $6.00; deposit, $4.00. Lofgren and Lien.

28. Pharmaceutical Mathematics Sem. 2. 2+0, Cr. 2.
A course in mathematics dealing with those problems peculiar to pharmacy, as weights, measures, specific gravity, alligation, proportion, percentage, profits, and costs. Harwood.

30. Pharmaceutical Latin Sem. 2. 2+0, Cr. 2.
A course in beginning Latin emphasizing the terms used in writing and interpreting physicians' prescriptions. Harwood.

75-76. Operative Pharmacy Yr. Each semester. 2+3, Cr. 3.
An exhaustive study of the galenical and inorganic chemical preparations of the United States Pharmacopoeia and the National Formulary which are not ordinarily made extemporaneously by the pharmacist, but are usually purchased from the manufacturer. Examples of the various types of preparations will be made in the laboratory.
Prerequisite: Pharmacy 1.
Laboratory fee, $6.00 per semester; deposit, $4.00. Lofgren.

81. Theory of Pharmacy: Inorganic Sem. 1. 3+0, Cr. 3.
A study of the inorganic chemicals of the United States Pharmacopoeia and the National Formulary stressing their official names, synonyms, pharmaceutical properties and uses.
Prerequisite: Chemistry 54. Harwood.

111-112. Elementary Dispensing Yr. Each semester. 1+3, Cr. 2.
An exhaustive study of the preparations found in the United States Pharmacopoeia and the National Formulary which commonly are made extemporaneously by the pharmacist. Examples of the various kinds of preparations are manufacured in the laboratory.
Prerequisite: Pharmacy 76.
Laboratory fee, $6.00 per semester; deposit, $4.00. Lofgren.

123. Lettering Sem. 1. 0+2, Cr. 1.
The course in lettering provides the student with a knowledge of the evolution of letter forms and the practical application of various alphabets in hand lettering, illumination, and commercial art.
Zimmerman.

124. Lettering Sem. 2. 0+2, Cr. 1.
Continuation of lettering 123.
Prerequisite: Lettering 123. Zimmerman.

140. Theory of Pharmacy: Organic Sem. 2. 4+0, Cr. 4.
A study of the organic chemicals of the United States Pharmacopoeia and the National Formulary stressing their official names, synonyms, pharmaceutical properties and uses.
Prerequisite: Chemistry 102. Harwood.

146. History of Pharmacy and Chemistry Sem. 2. 2+0, Cr. 2.
A study of the development of pharmacy and chemistry of the principal countries of Europe and the United States.
Alternates with Pharmacy 148.
[Not offered 1935-1936.]
Harwood.

148. Pharmaceutical Jurisprudence Sem. 2. 2+0, Cr. 2.
A study of the federal and state laws of interest to the pharmacist with special emphasis upon his legal responsibilities.
Alternates with Pharmacy 146. Harwood.

155-156. Advanced Dispensing Yr. Each semester. 1+3, Cr. 2.
A thorough survey of better dispensing practices with emphasis upon neatness, speed and accuracy. Special stress is placed upon incompatible prescriptions. The laboratory work is the filling of an actual file of physicians' prescriptions.
Prerequisite: Pharmacy 112.
Laboratory fee, $6.00 each semester; deposit, $4.00.
Lofgren.

177. PHARMACOPEIAL ASSAY Sem. 1. 2+6, Cr. 4.

A study of the quantitative tests for standardization of drugs and medicines as used in the United States Pharmacopoeia and the National Formulary.
Prerequisite: Chemistry 107.
Laboratory fee, $6.00; deposit, $4.00. Harwood.

180. U. S. P. AND N. F. Sem. 2. 2+0, Cr. 2.

A systematic review of the preparations and crude drugs of the United States Pharmacopoeia and the National Formulary. Lofgren.

185. PHARMACOPEIAL CHEMISTRY Sem 1. 3+0, Cr. 3.

A systematic review of the chemistry and properties of the inorganic substances of the United States Pharmacopoeia and the National Formulary.
Harwood.

195-196. ADVANCED PROBLEMS IN PHARMACY Sem. 1 and 2. 2 to 5 Cr.

A study of advanced problems in manufacturing pharmacy, pharmaceutical assay or pharmaceutical chemistry. Credit and arrangement of schedule is made by members of the pharmacy staff.
Prerequisite: Pharmacy 156 or 177.
Laboratory fee, $1.50 per credit; deposit, $4.00.

Pharmacognosy

Professor Lofgren, Assistant Professor Kaufmann

103-104. PHARMACOGNOSY Yr. Each semester. 3+3, Cr. 4.

A study of the sources, preparation, physical and chemical characteristics, active constituents, Latin and common names of crude vegetable, animal, and chemical drugs used medicinally. The laboratory work deals with the macroscopic and microscopic study of the important official vegetable drugs.
Prerequisite: Botany 52.
Laboratory fee, $3.00. Kaufmann.

151-152. PHARMACOLOGY, TOXICOLOGY, AND THERAPEUTICS Yr. Each semester. 3+0, Cr. 3.

A study of the physiological action, toxicity, and therapeutic uses of medicinal substances with special reference to the drugs and preparations of the United States Pharmacopoeia and the National Formulary.
Prerequisite: Pharmacognosy 104, Chemistry 102, Elementary Physiology 75.
Lofgren.

161. PHARMACOLOGICAL STANDARDIZATION Sem. 1. 0+3, Cr. 1.

A laboratory and demonstration course in biological drug assaying with special reference to the methods of the United States Pharmacopoeia.
Prerequisite: Elementary Physiology 75.
Laboratory fee, $3.00.

PART VII

THE SCHOOL OF LAW

John Wallace Morland, A.M., LL.B., J.D., *Professor of Law and Dean of the School of Law.*
Virgil Edwin Berry, LL.B., *Professor of Law.*
Marshall John Jox, A.B., J.D., *Instructor in Law.*
Robert Lincoln Taylor, A.B., J.D., *Instructor in Law.*

Lecturers

1935-1936

Grant Crumpacker, LL.B., *Lecturer in Law.*
Alfred J. Link, Ph.B., J.D., *Lecturer in Law.*
H. H. Loring, LL.B., *Lecturer in Law.*
Mark B. Rockwell, B.S., LL.B., *Lecturer in Law.*

The School of Law

Purpose

Modern American law is a composite of the common law and legislative and constitutional enactments. This law is the fruit of hundreds of years of development in England and later in America toward the establishment of a system of law which would adequately protect the rights, powers, privileges, and immunities of individuals and suppress personal and public wrongs. Right, justice, and liberty under law are its objectives.

As developed thus far, though many important changes have been made through legislation, this system of law is, primarily, the outgrowth of the decisions of courts in cases that have come before them. The judicial process involves many considerations. Important among these are the consideration which should be given to decisions of former similar cases; the possible effect of pertinent legislative enactments; and the influence which the social interest involved should have upon the decision.

The School of Law seeks to acquaint its students with the principles and rules that have thus been established, without overlooking outstanding local peculiarities of the law as it exists in the various states of the United States and in the federal jurisdiction. The aim is not solely to give information nor is it solely to supply mental training. Discipline in the methods of legal reasoning and analysis are considered of great importance; but this is supplemented by much practical information, and by training in the operative functions. The student is made acquainted with the ideals and traditions peculiar to the profession. He is given training and practice in drawing legal papers. Courses are offered in pleading and trial practice. A practice court is maintained wherein the student must take all the steps required in the preparation and trial of a case. Professional interest of the students is stimulated through lectures by practicing lawyers and by judges. Thus, a sane and practical balance between theory and practice is attained. Legislative enactments and social influences are not neglected. Yet the judicial process through which law takes its final form must necessarily remain the central concern of the School of Law.

Rank of the School of Law

The School of Law is fully approved by the American Bar Association through its Council on Legal Education and Admission to the Bar.

Association of Amercian Law Schools

The School of Law is a member of the Association of American Law Schools. This Association is made up of seventy-one law schools in the United States and Canada.

New York Board of Regents

The degree of Bachelor of Laws is approved by the Board of Regents of the University of the State of New York.

North Central Association of Colleges and Secondary Schools

The University of which the School of Law is a part holds membership in the North Central Association of Colleges and Secondary Schools, the accrediting association of the colleges and universities of the Middle West.

General Information

Historical Statement

The School of Law was organized in 1879 by the Honorable Mark L. DeMotte, who remained at its head for nearly thirty years. During that time hundreds of graduates became successful lawyers, and many were given political preferment or judicial honors both in state and nation. Colonel DeMotte retired

during the year 1907-1908 because of ill health. His place was taken by Milo J. Bowman, who served as Dean for a period of more than twenty years.

In 1926 the School of Law was moved from its old, inadequate building to the main floor of the Arts-Law Building.

The School of Law was approved by the Council on Legal Education of the American Bar Association May 6, 1929, and was elected a member of the Association of American Law Schools December 28, 1930.

Practice Court

The School maintains a course in practice court, under an instructor who has had experience in the practice of law.

The Law Library

The School maintains a separate law library that complies with the best requirements. It consists of about eleven thousand volumes.

The library contains the official reports of the Supreme Court of the United States and those of thirty-seven states up to the reporter system, the National Reporter System complete, all sets of general annotated decisions, full English Reprint, English reports and digests, the United States Code Annotated and earlier compilations of federal statutes, the United States Statutes at Large, state revised statutes or compilations and sessions laws, the American Digest System, state and special digests, citators, twelve legal periodicals, the standard law encyclopedias, and a collection of state trials, legal histories, and treatises on law and jurisprudence.

University Lawyers' Association

The University Lawyers' Association enables the law student to make a more intimate contact with the practical side of the legal profession. This purpose is accomplished by means of a series of lectures given by prominent lawyers and judges who are able to give the student an idea as to what he can expect and what will be expected of him when he himself enters the practice of law. This organization has encouraged the law student to become a member of the Junior Bar Association of his state if one is established therein. This gives the student the opportunity and the privilege of making personal contact with the practicing lawyers. Likewise the Lawyers' Association has accorded the pre-legal students a similar standing by inviting them to become associate members and thus affording such students the opportunity of becoming acquainted with the legal work before actually entering upon it. All law students are eligible to full membership in the Association.

Curricula

The University offers in the School of Law a three-year curriculum, based on an entrance requirement of two years of college work, leading to the degree of Bachelor of Laws (LL.B.). The University also offers a six-year curriculum, comprising three years of college work and three years work in law, leading to the degree of Bachelor of Arts (A.B.) and Bachelor of Laws (LL.B.).

Practice and Procedure

The need for training in practice and procedure has been met by courses designed to give skill in the application of law in practice. Attention is therefore directed to the courses called Use of Books, Criminal Procedure, Civil Procedure, Code Pleading, Trial Practice, Evidence, and Practice Court.

Admission

Applicants for admission as candidates for the degree of Bachelor of Laws must be able to satisfy the requirements for admission to a college of this University and have completed at least one-half of the work acceptable for a bachelor's degree as granted on the basis of four years of study. At present this is 60 semester hours of credit and 60 quality points or the equivalent. Credit earned by correspondence study, or in extension may not be accepted. Credit

earned in non-theory courses covering military science, hygiene, domestic arts, physical education, vocal or instrumental music, or in other courses without intellectual content of substantial value may not be counted toward the above requirement. The above requirements, except that as to quality points, are fixed by the Association of American Law Schools.

The entrance requirements of this University call for graduation from a four-year approved secondary school.

The requirement of one-half of the work necessary for a four-year collegiate degree may be met by the completion of two years of study in a college of this University, or credit may be given, wholly or in part, upon a certificate from another college, university, or normal school maintaining standards equivalent to those of the principal colleges or universities in this state.

Except on special permission by the Committee on Admissions and Degrees special students are not admitted. In no case will more than one such student be allowed to matriculate during any academic year.

All rules and regulations of the University, except as herein noted, apply in general to the School of Law.

Advanced Standing

A student from a law school which is a member of the Association of American Law Schools, or which is on the approved list of the American Bar Association, who has attained, in the school from which he is transferring, the average required by that institution and whose scholastic standing meets the requirements of Valparaiso University as to advanced standing, will ordinarily receive credit, not exceeding two years in amount for the satisfactory completion of work done there if it is similar in character to that required here; provided that at the time he began the law courses for which he desired to receive credit he had satisfied the entrance requirements of this School of Law. The right is reserved to refuse such credit, wholly or in part, save conditionally or upon examination, and credit given may be withdrawn for poor work. Admission with advanced standing will be refused where the schedule of studies pursued by the applicant in the school previously attended does not correspond sufficiently to the schedule of this school to make such admission advisable.

Requirements for Graduation

The work of the first year is required. Except upon recommendation of the pre-legal advisor and approval by the Committee on Admissions and Degrees, first year law students are not permitted to take courses in other colleges of the University. First year students entering in the second semester, on special action of the faculty of the School of Law, may be permitted to omit Property I. The required courses for the second year are Business Organization II, Equity, and Code Pleading. Those for the third year are Constitutional Law, Trusts, Legal Ethics and Practice Court. Students in the second and third years in addition to the above required work, must elect enough work in law to make a total of not less than 76 hours and 76 quality points. Upon approval by the Committee on Admissions and Degrees a second or third year student may, with the consent of the faculty of the School of Law and subject to the University regulations as to extra work, elect not to exceed four hours of extra work each semester from courses offered in the College of Libral Arts. Attendance at special lectures is required of all students.

Combined Arts and Law Curriculum

Students who have completed three years (92 semester hours) of work in the College of Liberal Arts, and have received 92 quality points, will receive the degree of A.B. upon completing the first year in the School of Law, and degree of LL.B. upon completing two additional years in the School of Law. By electing the combined course, students may obtain the two degrees in six years. Students who elect the combined curriculum are required to fulfill the college requirements applying to major and minor studies and prescribed work.

Curriculum for the School of Law

First Year

First Semester	*Cr.*	*Second Semester*	*Cr.*
101. Contracts	5	102. Business Organization I	2
107. Property I	3	110. Civil Procedure	3
105. Torts	5	104. Criminal Law and Procedure	4
103. Use of Books	1	108. Property II	5
	14		14

Second Year

First Semester	*Cr.*	*Second Semester*	*Cr.*
153. Business Organization II	2	153. Business Organization II	2
165. Equity	3	165. Equity	2
Electives	7	152. Code Pleading	2
		Electives	6
	12		12

Third Year

First Semester	*Cr.*	*Second Semester*	*Cr.*
205. Constitutional Law	2	205. Constitutional Law	2
209. Trusts	3	164. Legal Ethics	2
Electives	7	212. Practice Court	2
		Electives	6
	12		12

Electives 1935-1936 and in Alternate Years Thereafter:

First Semester	*Cr.*	*Second Semester*	*Cr.*
221. Trial Practice	3	154. Bills and Notes	3
161. Insurance	2	204. Creditors' Rights	3
177. Municipal Corporations	2	188. Persons	2
159. Wills	2		8
	9		

Electives 1936-1937 and in Alternate Years Thereafter:

First Semester	*Cr.*	*Second Semester*	*Cr.*
215. Federal Jurisdiction	2	206. Conflict of Laws	2
171. Mortgages	2	196. Sales	3
201. Suretyship	2	202. Carriers	3
209. Evidence	3		8
	9		

Courses in Law

First Year Courses (Required)

102. BUSINESS ORGANIZATION I Sem. 2. Cr. 2.

This course consists of a treatment of the law of Agency embracing the nature and purpose of the agency relation; parties to the relation; methods of its creation, the authority of the agent, duties owed by agent to principal; rights of agent against principal; power of agent to subject principal to liability on contract and in tort; undisclosed principal; ratification and termination of the agency.

Magill and Hamilton: Cases on Business Organization, Volume I.

Taylor.

110. CIVIL PROCEDURE Sem. 2. Cr. 3.

A study of the Common Law actions including their origin, development, and modification by modern codes and statutes; a survey of the Common Law systems of pleading with a critical analysis of its success in reaching issues of law and fact between the litigants.

Magill: Cases on Civil Procedure (second edition).

Jox.

101. Contracts Sem. 1. Cr. 5.

Offer and acceptance; contractual intent; communication of offer and acceptance; kinds of contract; consideration; sealed contracts; rights and liabilities of beneficiaries; of assignees; joint and several contracts; illegal contracts; conditions; discharge of contracts; Statute of Frauds.

Costigan: Cases on Contracts (third edition).

Taylor.

104. Criminal Law and Procedure Sem. 2. Cr. 4.

General considerations; solicitation and attempt; assault, battery, and mayhem; false imprisonment; homicide; rape; larceny, embezzlement and false pretenses; receiving stolen property; burglary; arson; infancy; combination of persons; criminal procedure. Attention is given to recommendations of American Law Institute.

Harno: Cases on Criminal Law and Procedure. Morland.

107. Property Sem. 1. Cr. 3.

Personal property; possessory interests in chattels; acquisition of title to chattels; fixtures. Real property: general introduction; rights in another's land: Particularly, rents, profis a prendre, "natural" rights, easements, licenses, and covenants running with the land.

Bigelow: Cases on Personal Property (second edition).

Bigelow: Cases on Rights in Land (second edition). Berry.

108. Property II Sem. 2. Cr. 5.

Original title, including possessory title, prescription and accretion; derivative title, including execution of deeds, description of property conveyed, creation of easements by implication, estates created, covenants for title, estoppel by deed and priorities.

Bigelow: Cases on Rights in Land (second edition).

Aigler: Cases on Titles (second edition). Berry.

105. Torts Sem. 1. Cr. 5.

Specific torts, namely, assault, battery, false imprisonment, trespass to land and to goods; deceit, defamation, malicious prosecution; liability for negligent conduct; legal causation; absolute liability of landowners to third parties; injuries to economic rights.

Bohlen: Cases on Torts (third edition). Jox.

103. Use of Books Sem. 1. Cr. 1.

Training in legal research and the use of authorities, cases, indices and digests.

Hicks: Materials and Methods of Legal Research.

Morland.

Second Year Courses (Required)

153. Business Organization II Sem. 1. Cr. 2. Sem. 2. Cr. 2.

This course consists of a treatment of the law of partnership and private corporation in relation to each other. It considers the formation, the going concern, problems of contract and of tort, divisions of proceeds, and solvent dissolution of each type of organization. Materials relaion to business trusts, limited partnerships and joint stock associations are also considered.

Magill and Hamilton: Cases on Business Organization, Volume II.

Taylor.

152. Code Pleading Sem 2. Cr. 2.

An interpretation of the provisions of modern codes of pleading, with special attention to the influence of the common law system of pleadings on the judicial construction of these codes; suggested modifications of existing codes.

Hinton: Cases on Code Pleading (third edition). Jox.

165. Equity Sem. 1. Cr. 3. Sem. 2. Cr. 2.

Nature and scope of equity; injunctions, specific performance; reformation and recission; recovery for benefits wrongly retained; bills of peace, bills of interpleader, bills quia timet. Brief attention is also given to Quasi-Contracts.

Cook: Cases on Equity. One volume (second edition).

Morland.

Third Year Courses (Required)

205. Constitutional Law Sem. 1. Cr. 2. Sem. 2. Cr. 2.

Relations between the federal government and the state; 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.

Casebook to be selected. Morland.

164. LEGAL ETHICS Sem. 2. Cr. 2.

The nature of the profession; pecuniary limitations, advertising, solicitation, fees, lawyer's oath; ethical duties of lawyers to society, to courts, to clients, to litigants; ethics of employment; Canons of Ethics of the American Bar Association.

Arant: Cases on Legal Ethics. Taylor.

212. PRACTICE COURT Sem. 2. Cr. 2.

Practical exercises are given in the commencement, maturing, and trial of cases. The student incidentally acquires a familiarity with drafting pleadings, brief making, and the technique of practice, but the greater stress is laid upon developing the powers of constructive thinking in correlating procedure and substantive law. Jox.

209. TRUSTS Sem. 1. Cr. 3.

The origin and nature of trusts; resulting and constructive trusts; charitable trusts; duties of trustees; remedies of cestui qui trust.

Scott: Cases on Trusts (second edition.) Berry.

Electives for Second and Third Years

155. ADMINISTRATIVE LAW Sem. 1. Cr. 2.

The law of public officers, including extraordinary legal remedies.

Freund: Cases on Administrative Law (second edition).

[Not offered 1935-1936.] Morland.

154. BILLS AND NOTES Sem. 2. Cr. 3.

History and development of the law of negotiable instruments from the law merchant, through the common law and into its present codified state in the Uniform Negotiable Instruments Law; the formal requisites of bills, notes, and checks; the necessary steps to perfect the holder's rights; and the discharge of negotiable instruments.

Casebook to be announced. Taylor.

202. CARRIERS Sem. 2. Cr. 3.

A general consideration of bailment undertaking involving ordinary liabilities, and a more extended study of carriers, innkeepers, and other public service relations involving extraordinary liability.

Goddard: Cases on Carriers (second edition).

[Not offered 1935-1936.] Berry.

161. INSURANCE Sem. 1. Cr. 2.

Considering the topics of insurable interest, concealment, representation, warranty, cause of invalidity, increase of hazard, conditions prohibiting alienation, the peril insured against, the amount of recovery, subrogation, conditions applicable after loss, waiver and estoppel, assignment of policies and rights of beneficiaries.

Goble: Cases on Insurance. Taylor.

171. MORTGAGES Sem. 1. Cr. 2.

Nature, equitable mortgages, restriction on right to redeem; priorities; obligations secured; extension of time; transfers; discharge; redemption; subrogation; foreclosure.

Parks: Cases on Mortgages.

[Not offered 1935-1936.] Berry.

177. MUNICIPAL CORPORATIONS Sem. 1. Cr. 2.

Incorporation and incidents of existence; types of organizations; legislative control; corporate agencies, express and implied powers; revenue and indebtedness; acquisition and control of property; liability in contract and tort; remedies.

Macy: Cases on Municipal Corporations (second edition).

Morland.

188. PERSONS Sem. 2. Cr. 2.

Family law including marriage, separation, and divorce; property rights of married women; contractual and tortious liabilities of one spouse to the other and to third persons; personal disability including a study of the rights and liabilities of an infant to his parents and to third persons.

Madden: Cases on Domestic Relations. Jox.

196. SALES Sem. 2. Cr. 3.

Embracing the subject matter of sale, contract of sale, parties to the contract, the price, executory and executed sales and the various rules of law governing each, sales of specific property, sales of non-existent and unidentifiable property, retention of jus dispondendi, stopage in transitu, warranty and application to executory and executed sales, frauds, avoidance of the contract and Statute of Frauds.

Lewis: Cases on Sales.

[Not offered 1935-1936.] Taylor.

201. Suretyship Sem. 1. Cr. 2.

Statute of Frauds applying to contracts of suretyship, guaranty and indemnity; commercial guaranties; defenses of alteration, payment fraud, release, failure to sue principal, Statute of Limitations and exoneration; special types of contracts, private, public, and judicial bonds; rights and remedies of promiser after payment, including subrogation, contribution, and indemnity.

Arant: Cases on Suretyship.

[Not offered 1935-1936.] Taylor.

221. Trial Practice Sem. 1. Cr. 3.

Jurisdiction of the subject-matter; process, including a study of jurisdiction in personam and jurisdiction in rem; default judgments; conduct of the trial from the selection of the jury to entry of the final judgment in jury trials, including the drafting of jury instructions; trials by court without a jury.

Hinton: Cases on Trial Practice (second edition). Jox.

159. Wills Sem. 1. Cr. 2.

Testamentary capacity: kinds of wills; execution; revocation; probate of wills; testate and intestate succession to real and personal property; executors and administrators; administration of decedents' estates; distribution; final report and discharge.

Costigan: Cases on Wills (second edition). Berry.

226 Law Lectures Cr. 0. Sem. 1 and 2.

Some twenty lectures on subjects of practical importance given by men who are active in the profession of law. Subjects included are Appellate Practice, Juvenile Courts, Legal Ethics, and Legal History. Required of all students. Absences are reported as in other courses. The lecturers and their subjects are:

Judge Grant Crumpacker.....Federal Jurisdiction and Practice
Judge A. J. Link.....Juvenile Courts
Judge H. H. Loring.....Constitutional Law; General Practice
Judge Mark B. Rockwell.....Legal Ethics

Reading Course

Students whose scholastic standing warrant it and who desire to study some other course not listed above may do so with the consent of the faculty and under the direction and assistance of a member thereof.

PART VIII

DEGREES CONFERRED, STATISTICS, REGISTER OF STUDENTS

Degrees Conferred
1933-1934

The College of Liberal Arts

Bachelor of Arts

August 19, 1933

Elmer W. Blume
Erna Alberta Friedl
Irmadell Lillian Johnson
Vera Rose Klinedinst
Lillian Mary Kromshinsky
Dewey Herman Lindsay
Edward Paul Ruoff
Evelyn Charpie Tatge
Laudis Aloysius Wilk

June 10, 1934

Esther Marie Ahlbrand
Robert Grant Allett
Edward William Barnekoff
Emory George Bauer
Stephen Bella
John Richard Biedermann
Martin Henry Bredehoft
Walter Frederick Brunn
Irvin Burtzloff
Walter Augustus Christopher
George Beach Christy
Elra Marie Cochran
Melvin Yates Crannell
Ruth Martha Dreier
Hugh Fickle
Ann-Irene Kathryn Franke
Mildred A. Garbers
Vera George
Clarence Henry Geuder
Concordia Eleanore Gohlke
Karl Theodore Hellerman
Alvin Henry Hoffman
Raymond Carl Holm
Harry George Jennings
Clara H. Johnson
M. Geraldine Johnston
Walter O. Kaufmann
William Carl Koss
Anne Catharine Kowalski
Ruth Esther Kroeger
Harold Frederick Lietz
Harold Albert Markworth
Henry Frederick Meilahn
Margaret Louise Miller
Margaret E. Moellering
Ruth Virginia Morland
Harvard William Nolting
William D. Paison
Louis Charles Radde
Harold Frederick Riedel
Peter Paul Rucinski
Laura Beatrice Saeger
Lillian Paula Schatz
Karl Frederick Schefft
Herbert Alfred Schert
Louise Dorothy Schueffner
Miriam Anne Schurman
Kenneth Shurr
Harold Fredrick Sieloff
Eileen Sievers
Julia Margarete Sprencel
John William Stehr
Julius Henry Stier
Walter Paul Street
Aline Mary Tigar
Henry Emil Weick
Fredric George Wilker
Frances Evelyn Windisch
Paul Robert Witt, Jr.

Bachelor of Science in Education

August 19, 1933

Paul B. Randle

The College of Engineering

Bachelor of Science in Civil Engineering

June 10, 1934

Don Emerson Allen
Ruben S. J. Hartmeister
Fred William Haug
Werner George Malte
Albert Frank Neeb

Bachelor of Science in Commercial Engineering

Marcus Roland Braun
Martin John Kirchhoefer

Bachelor of Science in Electrical Engineering

Edward Ernest Griessel
Reinhold Richard Hofmann
Ewald William Nath
Norman U. Stryker, Jr.

Bachelor of Science in Mechanical Engineering

Arthur Emil Giesler
Clifford Ernest Johnson
J. Howard McVay
Walter Fredrick Meier
Adalbert Charles Mueller
Raymond Roland Sodomka

The College of Pharmacy

Bachelor of Science in Pharmacy

August 19, 1933

John Allen Sergison

June 10, 1934

Henry Paul Ciecierski
Bernard Cohn
Joseph A. Kilner
Erwin Ernest Newkirk
Jacob John Francis Schowalter
William John Swoboda

Pharmaceutical Chemist

August 19, 1933

Emery Allan Badanish

The School of Law

Bachelor of Laws

June 10, 1934

Alfons John Briel
Roland Frederick Dierker
Harold Karl Kahnert
Joseph John Kowalski
Harold Charles Kruse
Allan Herman Nierman
Herman George Pope
Carl Henry Roembke
Kurt H. Schnellbaecher

Summary of Attendance

1934-1935 (September-June)

As of May 6, 1935

The College of Liberal Arts

	Men	Women	Total
Seniors	32	22	54
Juniors	36	25	61
Sophomores	41	39	80
Freshman	58	53	111
Unclassified	3	11	14
Extension	34	29	62
Total	204	179	383

The College of Engineering

	Men	Women	Total
Seniors	15	---	15
Juniors	8	---	8
Sophomores	7	---	7
Freshmen	20	---	20
Unclassified	1	---	1
Total	51	---	51

The College of Pharmacy

	Men	Women	Total
Seniors	14	---	14
Juniors	4	---	4
Sophomores	8	2	10
Freshmen	11	3	14
Total	37	5	42

The School of Law

	Men	Women	Total
Third Year	12	---	12
Second Year	19	---	19
First Year	15	---	15
Unclassified	1	---	1
Total	47	---	47

Recapitulation

(September-June)

	Men	Women	Total
The College of Liberal Arts	204	179	383
The College of Engineering	51	---	51
The College of Pharmacy	37	5	42
The School of Law	47	---	47
Total Gross Enrollment	339	184	523
Deduct Duplicate	1	---	1
Total Different Students	338	184	522

Summary of Attendance

Summer Session 1934

	Men	Women	Total
First Five Weeks (June 11-July 14)	61	28	89
Second Five Weeks (July 16-August 18)	48	18	66
Total Gross Enrolment	109	46	155
Deduct Duplicates	41	15	56
Total Different Students	68	31	99

Recapitulation

(June, 1934-June, 1935)

(As of May 6, 1935)

	Men	Women	Total
The College of Liberal Arts	204	179	383
The College of Engineering	51	---	51
The College of Pharmacy	37	5	42
The School of Law	47	---	47
First Summer Term	61	27	88
Second Summer Term	48	17	65
Total Gross Enrollment	448	228	676
Deduct Duplicates	76	29	105
Total Different Students	372	199	571

Geographical Distribution of Students

(September-June) 1934-1935

United States—Continental

State	Number of Students	State	Number of Students
Illinois	177	Massachusetts	4
Indiana	166	Nebraska	3
Michigan	36	New Jersey	3
Wisconsin	31	Texas	2
Ohio	28	Alabama	1
Minnesota	13	Maryland	1
New York	13	Montana	1
Missouri	12	North Carolina	1
Iowa	9	North Dakota	1
Connecticut	6	South Carolina	1
Pennsylvania	6	South Dakota	1
Kansas	4		
		Total	520

Insular and Non-Contiguous Territories ---------- None

Foreign Countries

Country	Number of Students
Canada	2

Recapitulation

	Number of Students
United States—Continental	520
United States—Insular and Non-Contiguous Territories	---
Foreign Countries	2
Total	522
Number of States Represented	23
Number of Insular and Non-Contiguous Territories	---
Foreign Countries	1

Register of Students

1934-1935

(As of May 6, 1935)

(Including the Summer Session of 1934)

The following abbreviations are used to designate colleges: LA, College of Liberal Arts; E, College of Engineering; P, College of Pharmacy; L, School of Law.

Classification of students is indicated as follows: F, Freshman; So., Sophomore; J, Junior; S, Senior; U, Unclassified; Sp., Special; Ex., Extension; Au., Auditor; 1, First year; 2, Second year; 3, Third year.

Attendance is indicated as follows: 1, First Semester; 2, Second Semester; 1ST, First Summer Term; 2ST, Second Summer Term.

Name of Student	C	Y	Attendance	Home Address
Agle, Elinor	LA	F	1, 2	Eden, New York
Ahlbrand, Melba	LA	So.	1, 2	Seymour, Indiana
Ahrens, Harold G.	LA	Ex.	1	River Grove, Illinois
Ahrens, Lucille	LA	Ex.	1	Chicago, Illinois
Aiello, Anthony	P	J	1ST, 2ST,1,2	Chicago, Illinois
Albertson, Bernice	LA	F	1	Crookston, Minnesota
Allett, Jean	LA	So.	1, 2	Valparaiso, Indiana
Amling, Therese	LA	Ex.	1	Maywood, Illinois
Amt, Norma J.	LA	S	1, 2	Indianapolis, Indiana
Andernacht, Daniel H.	LA	F	1, 2	Crown Point, Indiana
Anderson, Edna Bernice	LA	J	1, 2	Wanatah, Indiana
Anderson, Fay Marie	LA	F	1, 2	Oak Park, Illinois
Andres, Eric T.	LA	So.	1, 2	Valparaiso, Indiana
Andres, Ruth D.	LA	U	1ST	Valparaiso, Indiana
Anhold, Albert	L	1	1, 2	Gary, Indiana
Ansorge, Luella	LA	F	1, 2	Manning, Iowa
Arnold, Verna L.	LA	J	1ST, 1, 2	Appleton, Minnesota
Augustine, James W.	E	F	1	Westville, Indiana
Baack, Lester H.	LA	Ex.	1, 2	Lansing, Illinois
Backus, Paul L.	P	So.	1	Ontarioville, Illinois
Bailey, Raymond	LA	U	1ST, 2ST	Gary, Indiana
	L	1	1, 2	
Baran, John	L	1	1, 2	East Chicago, Indiana
Barnett, Emma L.	LA	F	1, 2	Valparaiso, Indiana
Barnett, R. Melvin	E	S	1, 2	Valparaiso, Indiana
Barr, Margrette Roy	LA	U	1, 2	Valparaiso, Indiana
Barrett, Ruth I.	LA	U	1	Crown Point, Indiana
Bartz, August L.	LA	F	1, 2	Waukegan, Illinois
Bathje, Arnold W.	LA	Ex.	1, 2	Bellwood, Illinois
Bauer, Emory G.	LA	U	1ST, 2ST	Herscher, Illinois
Baur, Doris	LA	U	1	Valparaiso, Indiana
Bayes, Vivian Maude	LA	So.	1, 2	Woodsfield, Ohio
Beach, Clyde Owen	E	F	1, 2	Calumet City, Illinois
Becker, Ruth C.	LA	S	1	Chicago, Illinois
Beckett, Carolyn	LA	F	1	Crystal Lake, Illinois
[redacted]	LA	So.	2	
Beesley, Ralph A.	LA	F	1, 2	Chicago, Illinois
Behrens, Walter G.	E	F	1, 2	Benson, Illinois
Beiderwieden, Hermine	LA	So.	1, 2	Hammond, Indiana
Bellack, Ruth C.	LA	F	1, 2	Milwaukee, Wisc.

Name of Student	C	Y	Attendance	Home Address
Bergmann, Clarence L.	LA	S	2	Watertown, Wisc.
Berlin, O. H.	LA	U	1ST	Hobart, Indiana
Bernecker, Ralph G.	L	2	1	Saginaw, Michigan
Berning, Robert H.	L	3	1, 2	Fort Wayne, Indiana
Bertram, Winifred M.	LA	F	1, 2	Fort Wayne, Indiana
Betz, Howard	LA	U	1, 2	Warsaw, Indiana
Beuscher, Fred	LA	F	1, 2	Milwaukee, Wisconsin
Beyer, Carl William	LA	J	1, 2	Cleveland, Ohio
Biedermann, Christine D.	LA	F	1, 2	Elgin, Illinois
Biedermann, Kurt E.	LA	S	1ST,2ST,1,2	Elgin, Illinois
Bielauskas, Anthony J.	LA	J	1	East Chicago, Ind.
	LA	S	2	
Bierwagen, Albert	LA	U	1ST, 2ST	Prairie View, Illinois
	LA	Ex.	1, 2	
Bierwagen, Paul A.	LA	S	1ST, 2ST	Wauwatosa, Wisc.
Billings, Mary Ellen	LA	U	1	Valparaiso, Indiana
Bjork, Walter A.	LA	So.	1, 2	Chicago, Illinois
Black, John H.	P	J	1, 2	Valparaiso, Indiana
Blaese, Rosemary	LA	So.	1, 2	Valparaiso, Indiana
Blatz, Sylvia	LA	F	1	East Chicago, Indiana
	LA	So.	2	
Blecha, Ann	LA	Ex.	1	Chicago, Illinois
Blume, Elmer	L	1	1	Crown Point, Indiana
	L	2	2	
Bode, Helen M.	LA	F	1, 2	Echo, Minnesota
Bodenstab, Philip C.	LA	U	1ST, 2ST	Chicago, Illinois
	L	2	1, 2	
Boeger, Eleanor	LA	F	1, 2	LaGrange, Illinois
Boeger, Elmore	LA	J	1, 2	LaGrange, Illinois
Bol, Lawrence A.	LA	So.	1	Hebron, Indiana
Bolte, Emma Alsie	LA	S	1ST,2ST,1,2	Valparaiso, Indiana
Boomershine, Charles	L	1	1, 2	Monon, Indiana
Borgman, Elizabeth Anne	P	So.	1, 2	Fort Wayne, Indiana
Born, Ella	LA	Ex.	1	Chicago, Illinois
Bowser, Russell	L	1	1	Lock Haven, Penn.
	L	2	2	
Braner, Erwin M.	LA	F	1	Algona, Iowa
Brasch, Harold G.	LA	So.	1, 2	Pembroke, Ont., Can.
Brauer, Lois	LA	J	1, 2	Columbus, Indiana
Breseman, Leonard H.	LA	So.	1	Oak Park, Illinois
Brinkman, Norman H.	LA	U	1ST, 2ST	Kankakee, Illinois
	LA	Ex.	1, 2	
Brittan, Elwin Leroy	LA	S	1, 2	Crown Point, Indiana
Brna, Paul W.	LA	F	1, 2	E. Port Chester, Conn.
Broviak, Raymond J.	P	J	1, 2	Wanatah, Indiana
Bruss, Delbert J.	P	F	1, 2	Echo, Minnesota
Buescher, Walter Martin	LA	S	1, 2	Bremen, Indiana
Buhrig, Muriel	LA	So.	1, 2	Canastota, New York
Buls, Erwin J.	LA	Ex.	1, 2	Calumet City, Illinois
Buonauro, Neil Joseph	P	S	1, 2	Chicago, Illinois
Bush, George T.	L	1	1	Chesterton, Indiana
	L	2	2	
Busse, Harvey	LA	J	1, 2	Mt. Prospect, Illinois
Busse, K. L.	LA	Ex.	1	Arlington Heights, Ill.
Busse, William J.	LA	So.	1, 2	Mt. Prospect, Illinois
Callies, Edith B.	LA	So.	1, 2	Milwaukee, Wisconsin

Name of Student	C	Y	Attendance	Home Address
Charlson, Vernon R.	LA	U	2ST	Chesterton, Indiana
Charlton, Mary M.	LA	S	1, 2	Gary, Indiana
Chester, James W.	L	3	1, 2	Valparaiso, Indiana
Christopher, Arthur F.	LA	Ex.	1	Chicago, Illinois
Christopher, Walter A.	L	2	1, 2	Oak Park, Illinois
Chrustowski, Andrew B.	L	2	1, 2	East Chicago, Indiana
Ciesielski, John	E	F	1, 2	Valparaiso, Indiana
Cimaglio, Maxine	LA	So.	1, 2	Chicago, Illinois
Claudon, Marjorie	LA	So.	1, 2	Valparaiso, Indiana
Clements, James B.	L	3	1, 2	East Chicago, Indiana
Clifford, Jeanne M.	LA	F	1, 2	Valparaiso, Indiana
Clifford, Leo	LA	So.	1ST,2ST,1,2	Valparaiso, Indiana
Cobb, Helen	LA	J	1, 2	Valparaiso, Indiana
Cone, Sherman A.	P	F	1, 2	Freeport, Illinois
Conklin, Juanita	LA	J	1, 2	Chicago, Illinois
Corcoran, Mott L.	E	F	1, 2	Valparaiso, Indiana
Dale, John L.	P	So.	1ST,2ST,1,2	Chesterton, Indiana
Darling, Ruby	LA	S	1ST, 1, 2	Hobart, Indiana
Darst, Ruth A.	LA	U	1, 2	Valparaiso, Indiana
Derman, Sigman	P	S	1ST,2ST,1,2	Valparaiso, Indiana
Detscher, Francis	LA	F	1, 2	E. Port Chester, Conn.
Dieckhoff, Edwin H.	LA	Ex.	1, 2	Maywood, Illinois
Dienst, Clara M.	LA	U	1ST	Alexandria, Missouri
Dierker, Wilbert	LA	J	1, 2	Watertown, Wisconsin
Diersen, Arnold	LA	U	2ST	Lyons, Illinois
	LA	Ex.	2	
Dietz, Paul C.	LA	S	1, 2	Milwaukee, Wisc.
Dinsmore, Claire L.	LA	S	1	Hebron, Indiana
Dobachewsky, Wanda A.	LA	F	1, 2	West Roxbury, Mass.
Dodson, Francis P.	LA	J	1ST, 2ST	Hollidaysbury, Penn.
Doering, Lois Adele	LA	So.	1	Chicago, Illinois
Dolk, Charles A.	LA	F	1, 2	Chesterton, Indiana
Dornbusch, Bernice R.	LA	F	1	Paullina, Iowa
Doyle, Helena K.	LA	U	1ST	LaPorte, Indiana
Dreier, Esther A.	LA	F	1, 2	St. Joseph, Michigan
Drzewicki, Boleslaus Wm.	LA	So.	1, 2	Chicago, Illinois
Dube, Carl E.	P	So.	1, 2	The Grove, Texas
Dube, William J.	LA	F	1, 2	The Grove, Texas
Duever, Irene	LA	Ex.	1	Chicago, Illinois
Duganne, Walter T.	LA	U	1ST	Bremen, Indiana
Dye, Gerald F.	LA	F	1	Valparaiso, Indiana
Easton, Adamarie	LA	S	1ST,2ST,1	Hobart, Indiana
Eberhardt, Jean Ann.	LA	F	1, 2	Clintonville, Wisc.
Eberlein, Edna Mae	LA	Ex.	1	La Grange, Illinois
Edquist, Evar	LA	F	1, 2	Chesterton, Indiana
Edquist, H. Irene	LA	F	1, 2	Chesterton, Indiana
Edquist, Ruth M.	LA	F	1, 2	Chesterton, Indiana
Eenigenburg, Lester	LA	F	1, 2	Lansing, Illinois
Eggers, Oliver H.	L	2	1, 2	Fort Wayne, Indiana
Eggersman, Edwin H.	LA	Ex.	1, 2	Roselle, Illinois
Egli, Paul D.	LA	J	1ST, 1, 2	Kouts, Indiana
Ehnes, Carl W.	LA	So.	1, 2	New York, New York
Eickmann, Roselyn	LA	F	1, 2	Beatrice, Nebraska
Eilers, A. F.	LA	U	1ST, 2ST	La Grange, Illinois
	LA	Ex.	1, 2	

Name of Student	C	Y	Attendance	Home Address
Emde, Marion L.	LA	F	1, 2	Chicago, Illinois
Erickson, Glenn A.	E	F	1, 2	Chesterton, Indiana
Evans, Richard H.	LA	F	1, 2	Chicago, Illinois
Falk, Curtis M.	LA	F	1, 2	Sheboygan, Wisconsin
Feis, E. Ruth	LA	S	1ST, 1	Cincinnati, Ohio
Fessel, Carl L.	LA	J	1, 2	Defiance, Ohio
Fickle, Hugh	LA	U	1ST	Chesterton, Indiana
Fienup, Elizabeth	LA	So.	1, 2	St. Louis, Missouri
Fierke, Frank C.	LA	J	1, 2	Dundee, Illinois
Findling, Herbert	E	J	1, 2	Hammond, Indiana
Findling, Willard	E	So.	1, 2	Hammond, Indiana
Firebaugh, Enid	LA	S	1ST,2ST,1,2	Valparaiso, Indiana
Fleck, Paul	E	So.	1, 2	Forest Park, Illinois
Flentie, Edgar H.	LA	J	1, 2	Arlington Heights, Ill.
Flotow, Ernst	LA	U	1ST, 2ST	Crystal Lake, Illinois
Franceschini, Carl M.	L	3	1, 2	Fowler, Indiana
Freel, Samuel H.	L	2	1	East Chicago, Indiana
	L	3	2	
Freier, Robert D.	LA	S	1, 2	Benton Harbor, Mich.
Frevert, Lloyd J.	LA	J	1ST, 1, 2	Holyrood, Kansas
Frey, James E.	P	S	1, 2	Milwaukee, Wisc.
Frick, Bennye Amic	LA	U	1	Chapin, So. Carolina
Frick, Robert P.	E	S	1, 2	Zanesville, Ohio
Frincke, Ella A.	LA	U	1ST	Royal Oak, Michigan
Frincke, Theodore	LA	J	1, 2	Royal Oak, Michigan
Fritz, Herbert A.	L	1	1, 2	Hinsdale, Illinois
Gahl, Daniel	LA	J	1, 2	Chicago, Illinois
Galen, William R.	LA	J	1, 2	Cleveland, Ohio
Gant, Lois M.	LA	U	1ST, 2ST	Valparaiso, Indiana
Garbers, Walter	E	So.	1, 2	Oak Park, Illinois
Gardner, Raymond	E	So.	1	East Chicago, Indiana
Garner, Sydney	LA	So.	1, 2	Gary, Indiana
Gase, Marian O.	LA	F	1, 2	Parma, Ohio
Gast, Louis, L.	LA	F	1, 2	Valparaiso, Indiana
Gauss, Marion E.	LA	J	1, 2	Detroit, Michigan
Geffert, Julia	LA	Ex.	1	Arlington Heights, Ill.
Geiseman, Lydia	LA	So.	1, 2	Oak Park, Illinois
Gerken, Edwin H.	LA	S	1, 2	Napoleon, Ohio
Gerth, Paul G.	LA	Ex.	1, 2	Prairie View, Illinois
Gerth, Walter G.	LA	Ex.	1, 2	Bensenville, Illinois
Gieseke, Fred W.	LA	So.	1, 2	Arlington Heights, Ill.
Gieseke, Henry	L	3	1, 2	Park Ridge, Illinois
Gieseking, Dorothea	LA	F	1, 2	Grosse Pt. Park, Mich.
Giessing, Vernon K.	LA	S	1, 2	Farmington, Missouri
Glaess, Alfred	LA	F	1, 2	Forest Park, Illinois
Glueck, Charles H.	LA	U	1ST	Gary, Indiana
Goethke, Lawrence F.	LA	F	1	Baraboo, Wisconsin
	LA	So.	2	
Gotsch, Leonard P.	LA	J	1, 2	Oak Park, Illinois
Graul, Henry C.	LA	S	1, 2	St. Louis, Missouri
Graul, Walter Phillip	LA	F	1, 2	St. Louis, Missouri
Green, Kenneth	LA	F	1, 2	Michigan City, Ind.
Greenwell, Everett N.	LA	U	1	Valparaiso, Indiana
Gremel, Clements C.	LA	S	1, 2	Sebewaing, Michigan
Griep, Arthur H.	LA	F	1, 2	Cadillac, Michigan
Grigg, Clarence O.	E	F	1, 2	Detroit, Michigan
Grimmer, Roland	LA	J	1, 2	Sheboygan, Wisconsin

Name of Student	C	Y	Attendance	Home Address
Grosnick, Waldemar	LA	J	1, 2	Watertown, Wisc.
Gross, Mrs, H. H.	LA	Ex.	1	Chicago, Illinois
Grosz, Rosaline G.	LA	F	1, 2	Sibley, Illinois
Gruett, Phyllis A.	P	F	1, 2	Merrill, Wisconsin
Gunder, Ross W.	LA	F	1, 2	Valparaiso, Indiana
Guttilla, Pat	P	F	1, 2	Chicago, Illinois
Haack, Edwin W.	LA	U	1ST, 2ST	Wyandotte, Michigan
Haase, Elmer A.	E	S	1, 2	Benton Harbor, Mich.
Haase, Erich O.	LA	Ex.	1, 2	Chicago, Illinois
Hagans, Ray F.	LA	F	1, 2	Fort Wayne, Indiana
Hahn, John H.	LA	J	1, 2	Lenox, Michigan
Hahn, Vera	LA	F	1, 2	Wauwatosa, Wisc.
Haller, Roberta	LA	So.	1, 2	Kankakee, Illinois
Hamacher, Lloyd	LA	F	1, 2	Valparaiso, Indiana
Harney, Clarence H.	L	3	1, 2	Hobart, Indiana
Harris, Kathryn	LA	F	1, 2	Valparaiso, Indiana
Hartig, Elmer D.	LA	J	1, 2	West Allis, Wisconsin
Hartmeister, Joel S.	LA	F	1, 2	Paullina, Iowa
Hausam, Virginia L.	LA	F	1, 2	Valparaiso, Indiana
Hausler, William M.	LA	F	1, 2	Chicago, Illinois
Heerwagen, Otto	LA	Ex.	1	Chicago Heights, Ill.
Heideman, Louis C.	LA	Ex.	2	Chicago Heights, Ill.
Heins, Harold H.	L	2	1, 2	East Detroit, Mich.
Hellwig, Walter F.	LA	So.	1, 2	St. Louis, Missouri
Hemmeter, Eraine	LA	So.	1, 2	Saginaw, Michigan
Henkel, Alfred L.	LA	So.	1, 2	Ohio City, Ohio
Herzberg, Gerhard	LA	S	1, 2	Racine, Minnesota
Herzberg, Gilbert	L	3	1, 2	Racine, Minnesota
Hill, Edwina C.	LA	F	1, 2	Brooklyn, New York
Hillger, Richard	LA	U	1ST	Chicago, Illinois
	LA	Ex.	1, 2	
Hillger, Victor	LA	Ex.	1	Chicago, Illinois
Hinz, Arthur	L	1	1, 2	Chicago, Illinois
Hirsch, Bennie C.	LA	F	1, 2	Valparaiso, Indiana
Hitzemann, Irene	LA	F	1, 2	Carrollton, Missouri
Hitzeman, Harold W.	LA	So.	1, 2	Oak Park, Illinois
Hoff, Dale A.	LA	So.	1, 2	Chesterton, Indiana
Hoffman, Alfred T.	LA	Ex.	1, 2	Roselle, Illinois
Hoffman, Marjorie	LA	So.	1, 2	Pleasantville, Ohio
Hoffman, Martha	LA	Ex.	1	Chicago, Illinois
Hoffmaster, William J.	LA	F	1, 2	Lockport, New York
Hollingsworth, D. Ruth	LA	U	2	Vermilion Grove, Ill.
Horning, Lois M.	LA	J	1, 2	Wanatah, Indiana
Hudec, Rose	LA	F	1	Valparaiso, Indiana
Hull, William D.	E	F	1, 2	Hanna, Indiana
Hulsberg, Herbert A.	LA	Ex.	1	La Grange, Illinois
Imboden, Arthur E.	LA	U	1ST, 2ST	Hickory Ridge, Ark.
Janeczko, Irene H.	P	So.	1, 2	Hammond, Indiana
Jannasch, Clifford	LA	F	1, 2	Gary, Indiana
Johnson, Edwin A.	LA	F	1, 2	Pittsfield, Mass.
Johnson, Evelyn	LA	Ex.	1	Chicago, Illinois
Johnson, Frances	LA	F	1, 2	Forest Park, Illinois
Johnson, Howard F.	E	F	1, 2	Chesterton, Indiana
Johnson, Robert	E	So.	1, 2	Valparaiso, Indiana
Jones, Muriel L.	LA	J	1, 2	Wheeler, Indiana

Name of Student	C	Y	Attendance	Home Address
Kaeding, Alice L.	LA	U	2ST	Michigan City, Ind.
Kamplain, Frank	LA	J	1	Indianapolis, Indiana
	LA	S	2	
Kapp, Lorraine A.	LA	S	1, 2	Milwaukee, Wisc.
Karger, Delmar Wm.	E	S	1, 2	Cape Girardeau, Mo.
Karr, William A.	LA	So.	1, 2	Calumet City, Illinois
Kase, Raymond H.	LA	S	1	Cincinnati, Ohio
Katz, Martin	LA	F	1, 2	Michigan City, Ind.
Kauffman, Frances	LA	Ex.	1	Chicago, Illinois
Kaufmann, Harland A.	E	J	1, 2	Kouts, Indiana
Kautz, Darrel P.	LA	F	1, 2	Olean, New York
Kelsey, Elmer C.	LA	F	1	Chicago, Illinois
Kemena, Roma Ann	LA	So.	1, 2	Michigan City, Ind.
Kemena, Ruth M.	LA	So.	1, 2	Michigan City, Ind.
Kenreich, Richard R.	LA	F	1, 2	Greenford, Ohio
Kiesling, Norman L.	L	3	1, 2	Logansport, Indiana
Kippenhan, Caroll	LA	So.	1, 2	Sidney, Montana
Kleinschmidt, Wilbert	LA	J	1, 2	Hamburg, Wisconsin
Klotz, Evelyn M.	LA	F	1, 2	Chicago, Illinois
Knueppel, Daniel J.	LA	S	1, 2	GreatBend, N. Dakota
Koch, Lillian	LA	Ex.	1	Addison, Illinois
Koehler, Ruth	LA	Ex.	1	River Forest, Illinois
Koenig, Elizabeth M.	LA	Ex.	1	Chicago, Illinois
Kolancyk, Dorothy	LA	U	1ST	Michigan City, Ind.
Koltz, Clara E.	LA	Ex.	1	River Forest, Illinois
Koss, Carl H.	LA	J	1, 2	Detroit, Michigan
Kotur, Eugene R.	LA	J	2ST, 1, 2	Elmira, New York
Kowitz, F. W.	LA	U	1ST	Wyandotte, Michigan
Kraegel, William	LA	Ex.	2	Oak Glen, Illinois
Krafft, Herman	LA	Ex.	1, 2	Melrose Park, Illinois
Krampien, George V.	L	2	1, 2	Norfolk, Nebraska
Krause, Gilbert	P	S	1, 2	Chicago, Illinois
Krentz, Olga E.	LA	Ex.	1	Oak Park, Illinois
Kressin, Luther	LA	F	1, 2	Winona, Minnesota
Kretzmann, Anita	LA	F	1, 2	Orange, New Jersey
Kreutzburg, Rowena L.	LA	J	1, 2	Dolton, Illinois
Krietenstein, Elizabeth	LA	F	1, 2	Chicago, Illinois
Kroehnke, Norma	LA	J	1, 2	St. Louis, Missouri
Kroencke, Selma B.	LA	U	1, 2	Valparaiso, Indiana
Krogh, Harry N.	P	So.	2	Harvey, Illinois
Krohn, Violet M.	LA	J	1, 2	Forest Park, Illinois
Kuck, E. Raymond	L	3	1, 2	Muskegon, Michigan
Kuecker, Edwin A.	LA	Ex.	1	Chicago, Illinois
Kuecker, Mrs. Mildred	LA	Ex.	1	Chicago, Illinois
Kugler, Herbert P.	L	2	1, 2	Easthampton, Mass.
Kumnick, Lester J.	L	3	1, 2	Hillside, Illinois
Lange, Paul	LA	U	1ST, 2ST	Gary, Indiana
Largura, E. Lawrence	L	2	1, 2	Gary, Indiana
Lass, J. Stanley	L	1	1, 2	Michigan City, Ind.
Lay, Alice	LA	U	1ST, 2ST, 1	Michigan City, Ind.
Lederer, Paul	P	F	1, 2	Conklin, Michigan
Lee, Margaret	LA	F	1, 2	Sherwood, Ohio
Letz, Adah H.	LA	J	1, 2	Crown Point, Indiana
Letz, Eleanor H.	LA	S	1ST, 1, 2	Crown Point, Indiana
Letz, George H.	LA	U	1ST	Crown Point, Indiana
Lichtsinn, Louis W.	L	1	1, 2	Huntington, Indiana

Name of Student	C	Y	Attendance	Home Address
Lieske, Edward W.	E	S	1, 2	Chelsea, So. Dakota
Lightcap, Donald V.	P	S	1, 2	North Judson, Ind.
Linsey, Robert B.	LA	J	1ST, 1, 2	Grand Rapids, Mich.
Lipske, Herold H.	LA	U	1ST, 2ST	Chicago, Illinois
	LA	Ex.	1, 2	
Little, Harry	LA	So.	1, 2	Chicago, Illinois
Little, John L.	LA	F	1	Rutherfordton, N. C.
Litvin, Daniel	P	S	1, 2	Chicago, Illinois
Lochmann, Lester	LA	U	1ST	Collinsville, Illinois
Loerke, Edward M.	LA	So.	1, 2	Milwaukee, Wisc.
Loesel, Lawrence	LA	U	1ST, 2ST	Westmont, Illinois
	LA	Ex.	1, 2	
Loga, Richard	LA	F	1, 2	Ft. Atkinson, Wisc.
London, George E.	L	2	1, 2	Valparaiso, Indiana
Luck, Mellie G.	LA	U	1, 2	Michigan City, Ind.
Ludwig, Renata E.	LA	So.	2	Stevens Point, Wisc.
Luekens, Norman F.	LA	S	1, 2	Cleveland, Ohio
Lusk, Bernice	LA	S	1ST	Michigan City, Ind.
Lutz, William C.	LA	F	1, 2	Alton, Illinois
Lutzke, Martin H.	LA	So.	1, 2	Beaver Dam, Wisc.
Maass, C. Lorraine	LA	J	1, 2	Rochester, Minnesota
Mack, Wesley W.	P	So.	1, 2	Wanatah, Indiana
Mahler, Arthur W.	E	So.	2	Elmhurst, Illinois
Malzahn, Lester	E	J	2ST, 1, 2	Arlington Heights, Ill.
Manka, Daniel P.	LA	J	1, 2	Steubenville, Ohio
Mann, Sylvester A.	LA	U	1ST, 2ST	Wanatah, Indiana
Marks, Gus A.	LA	So.	1ST, 2ST,1,2	Valparaiso, Indiana
Marquart, Clarice G.	LA	S	1, 2	Chesterton, Indiana
Marquart, Jeroldine	LA	F	1, 2	Chesterton, Indiana
Martens, Leota C.	LA	J	1, 2	Bloomington, Illinois
Matthews, Walter H.	LA	S	1, 2	Elmhurst, Illinois
Mayer, John A.	LA	J	1, 2	Clifton, New Jersey
McCauley, Arthur E., Jr.	L	1	1, 2	Oakland, Nebraska
McGill, Mary Alice	LA	So.	1ST, 1, 2	Valparaiso, Indiana
McNeely, Maxine	LA	F	1	Valparaiso, Indiana
	LA	So.	2	
Meeter, Marjorie	LA	F	1, 2	Lansing, Illinois
Meeter, Ruth	LA	J	1, 2	Lansing, Illinois
Meier, Charles H.	LA	Ex.	1, 2	Berwyn, Illinois
Meier, Paul J.	LA	F	1, 2	Lockport, New York
Meilahn, Henry F.	L	2	1, 2	Chicago, Illinois
Melinat, Carl H.	LA	S	1, 2	Royal Oak, Michigan
Mell, Ruth	LA	So.	1, 2	Farmington, Missouri
Menczynski, Romona A.	LA	U	2ST	Gary, Indiana
Menge, Melvin W.	E	F	1, 2	Deer Creek, Minn.
Mertz, Harold F.	E	J	1, 2	Lancaster, Ohio
Merz, Melvin	P	S	1, 2	Chicago, Illinois
Meyer, Alton	LA	J	1ST, 1, 2	Arnolds Park, Iowa
Meyer, Mildred M.	LA	F	1, 2	Paullina, Iowa
Meyer, Robert A.	E	F	1	Arlington Heights, Ill.
	LA	F	2	
Meyer, Ruth Elizabeth	LA	J	1, 2	Chillicothe, Illinois
Miller, Albert H.	LA	Ex.	1	LaGrange, Illinois
Miller, Audrey D.	P	F	1, 2	Valparaiso, Indiana
Miller, August	E	J	1, 2	Big Rapids, Michigan
Miller, Evangel L.	LA	J	1ST,2ST,1,2	Jackson, Michigan

Name of Student	C	Y	Attendance	Home Address
Miller, Gertrude	LA	F	1, 2	Fort Wayne, Indiana
Miller, Gordon Reed	LA	So.	1ST, 1, 2	Chicago, Illinois
Miller, Paula E.	LA	So.	1ST, 1, 2	New Haven, Indiana
Miller, Theodore F.	E	F	1, 2	Dayton, Iowa
Milleville, Anita E.	LA	Ex.	1	Chicago, Illinois
Moehling, Gertrude	LA	So.	1, 2	Mt. Prospect, Illinois
Moehlman, Emma	LA	S	1ST, 2ST	Indianapolis, Ind.
Moennich, Hazel	LA	J	1ST, 1, 2	Chicago, Illinois
Moentmann, R. M.	LA	U	1ST	Frankenmuth, Mich.
Montie, Albert G.	L	2	1, 2	Olean, New York
Moody, Roger L.	LA	F	1, 2	Valparaiso, Indiana
Moran, Miriam	LA	U	1ST, 2ST	San Pierre, Indiana
Morland, Mary Frances	LA	So.	1, 2	Valparaiso, Indiana
Mrozowski, Walter L.	P	S	1ST, 2ST, 1	Chicago, Illinois
Mueller, Dorothy M.	LA	F	1, 2	St. Louis, Missouri
Mueller, Ewald	LA	U	1ST, 2ST	Preston, Kansas
Mueller, Hans C.	LA	U	1ST	Bay City, Michigan
Mueller, John C.	LA	S	1ST,2ST,1,2	Uniontown, Missouri
Mueller, K. W.	LA	Ex.	1, 2	Calumet City, Illinois
Mueller, Meta L.	LA	S	1ST,2ST,1,2	Cincinnati, Ohio
Mullin, William B., Jr.	LA	U	1ST, 2ST	Rochester, New York
Meyers, Edith M.	LA	Ex.	1	Maywood, Illinois
Nehring, Martin J.	L	2	1, 2	Valparaiso, Indiana
Nerius, Lenore F.	LA	Ex.	1	Chicago, Illinois
Neuman, Helen M.	LA	So.	1	Valparaiso, Indiana
Neumann, Fred E.	E	S	1, 2	Peoria, Illinois
Nielsen, Charles Wm.	E	S	1, 2	West Orange, N. J.
Niemann, Arthur C.	LA	So.	1, 2	Buckley, Illinois
Nierman, Mildred E.	LA	F	1, 2	Brownstown, Indiana
Nordsieck, Henriette	LA	F	1, 2	Richmond, Indiana
Nuechterlein, Arnold C.	L	1	1, 2	Frankenmuth, Mich.
Nuoffer, D. Esther	LA	So.	1, 2	Hammond, Indiana
Nuss, Melvin O.	L	2	1, 2	Hoisington, Kansas
Obermann, Adolph	LA	Ex.	1, 2	Hinsdale, Illinois
Oebser, Herbert J.	LA	Ex.	1	Chicago, Illinois
Oehlschlaeger, Edwin J.	LA	S	1, 2	Bedford, Ohio
Oelschlaeger, Helen M.	LA	J	1, 2	Bridgeville, Penn.
Olsen, C. Eric, Jr.	E	F	1, 2	Brookline, Mass.
Padol, Walter S.	L	U	1	Gary, Indiana
Papageorge, Helene	LA	So.	1, 2	Hammond, Indiana
Papke, Adeline E.	LA	S	1ST, 2ST, 1	Chicago, Illinois
Parks, Marie E.	LA	F	1, 2	Queens Village, N. Y.
Pendleton, Clyde	LA	F	2	Chicago, Illinois
Penshorn, Marguerite	LA	Ex.	1	Chicago, Illinois
Peper, Robert B.	L	1	1, 2	Holgate, Ohio
Persson, Frederick ?	E	J	1, 2	Red Bud, Illinois
Peters, Donald W.	LA	J	1	Lake City, Minnesota
	LA	S	2	
Peterson, Ralph W.	E	F	1, 2	Carpentersville, Ill.
Petrowsky, Berthold E.	LA	Ex.	1, 2	Lyons, Illinois
Pett, Elwood A.	LA	J	1, 2	Essexville, Michigan
Pillsbury, Eugene	P	So.	1ST,2ST,1,2	Frankenmuth, Mich.
Pillsbury, Rosella C.	LA	So.	1, 2	Frankenmuth, Mich.
Plehn, Paul C.	LA	J	1, 2	Milwaukee, Wisc.
Poellot, Daniel E.	LA	Ex.	1	Palatine, Illinois

Name of Student	C	Y	Attendance	Home Address
Pomex, Ethel	P	F	1, 2	Chicago, Illinois
Popp, Paul	LA	So.	1, 2	Buffalo, New York
Porter, John Emmett	LA	U	1ST	Valparaiso, Indiana
Potthoff, Erwin	LA	J	1ST, 1, 2	Chicago, Illinois
Pretzer, Elvin	LA	J	1, 2	Bay City, Michigan
Purvis, Harry E., Jr.	P	So.	1, 2	New Haven, Indiana
Rabiner, Robert E.	LA	U	2ST	Gary, Indiana
Raelson, Arthur	LA	U	1ST, 2ST	Valparaiso, Indiana
	L	2	1, 2	
Rateike, William A.	LA	So.	1, 2	Mt. Prospect, Illinois
Rathburn, Curtis J.	LA	F	1, 2	Hebron, Indiana
Reguly, Lewis J.	E	S	1, 2	Whiting, Indiana
Rehme, Elmer Wm.	LA	So.	1, 2	Fort Wayne, Indiana
Rehmus, Marguerite	LA	S	1, 2	Bay City, Michigan
Reich, A. Vivian	LA	So.	1, 2	Forest Park, Illinois
Reidenbach, Elinor	LA	So.	1, 2	South Bend, Indiana
Reinke, Earl F.	LA	J	1, 2	LaGrange, Illinois
Reinker, Arthur G.	E	S	1, 2	Lakewood, Ohio
Reitz, Donald	E	J	1, 2	Olean, New York
Rekeweg, Wilmer D.	L	3	1, 2	Fort Wayne, Indiana
Rentner, Loraine E.	LA	S	1, 2	Chicago, Illinois
Ressmeyer, Ruth	LA	So.	1, 2	Baltimore, Maryland
Reuter, Edmund E.	L	1	1, 2	Logansport, Indiana
Reynolds, Dorothy M.	LA	F	1, 2	Chicago, Illinois
Richman, Charles	LA	F	1, 2	West Hartford, Conn.
Rigg, Garrett W.	E	S	1, 2	Valparaiso, Indiana
Risto, Herbert	P	F	2	Wanatah, Indiana
Rixe, Alice	LA	Ex.	1	Berwyn, Illinois
Rixe, Lillian	LA	Ex.	1	Forest Park, Illinois
Roedel, George F.	P	F	1, 2	Saginaw, Michigan
Roemke, Henry C.	E	S	1, 2	Woodburn, Indiana
Roeske, William	LA	J	1, 2	Boone Grove, Indiana
Rogers, Charles A.	E	S	2	Gary, Indiana
Rogers, Mary	LA	U	1ST	La Porte, Indiana
Rohlfing, Lois	LA	J	1, 2	Linn, Kansas
Rose, Bernard	LA	S	1ST	Valparaiso, Indiana
Rose, Martha J.	LA	F	1, 2	Valparaiso, Indiana
Rosenthal, Flora E.	LA	J	1, 2	Crystal Lake, Illinois
Rossow, Martin J.	LA	F	1, 2	Wausaw, Wisconsin
Ruecklos, Irene M.	LA	F	1, 2	Bloomington, Illinois
Ruhlig, Meta	LA	F	1, 2	Bay City, Michigan
Rusch, Dorothy L.	LA	F	1, 2	River Forest, Illinois
Rusin, Valdimire C.	P	S	1ST, 2ST	Chicago, Illinois
Saeger, Myrtle	LA	So.	1, 2	Ortonville, Minn.
Salamone, Frank	P	J	1ST,2ST,1,2	Chicago, Illinois
Salchow, Walter H.	P	So.	1, 2,	North East, Penn.
Salvner, Thusnelda	LA	S	1, 2,	Saginaw, Michigan
Sauer, Louis F.	LA	So.	1	Herscher, Illinois
Schack, Helen E.	LA	J	1, 2	Fort Wayne, Indiana
Scheer, August	LA	U	1ST, 2ST	Detroit, Michigan
Scheiderer, J. Arthur	E	S	1, 2	Plain City, Ohio
Schenkel, Esther C.	LA	Ex.	1	Chicago, Illinois
Scherer, Emily L.	LA	F	1, 2	South Orange, N. J.
Scherer, Lester	LA	So.	1, 2	Cleveland, Ohio
Scherf, Paul H.	E	F	1, 2	Freeport, Illinois
Schiefelbein, Lester W.	P	F	1	Lyons, Illinois

Name of Student	C	Y	Attendance	Home Address
Schilke, Harry R.	LA	F	1, 2	Middletown, Conn.
Schlegl, Leo J.	P	S	1, 2	Chicago, Illinois
Schluntz, Walter G.	LA	S	1, 2	Joliet, Illinois
Schmeling, Robert	LA	S	1, 2	Rockford, Illinois
Schmidt, Wilbur	LA	J	1ST, 2ST,1,2	Hammond, Indiana
Schmidt, Winifred	LA	F	1, 2	Valparaiso, Indiana
Schmidtke, Herbert E.	E	S	1, 2	Downers Grove, Ill.
Schmitt, Clara L.	LA	Ex.	1	River Forest, Illinois
Schmueser, Harold	LA	S	1, 2	Hammond, Indiana
Schoenherr, Magnus E.	LA	J	1, 2	Fort Wayne, Indiana
Schroeder, Margaret	LA	So.	1, 2	Grafton, Wisconsin
Schroeder, Mary Louise	LA	J	1, 2	Logansport, Indiana
Schroeder, Marvin K.	LA	U	1ST, 2ST	Michigan City, Ind.
Schroeder, Vietta	LA	So.	1, 2	Wall Lake, Iowa
Schuessler, Florence A.	LA	So.	1, 2	Chicago, Illinois
Schulte, Florence C.	LA	S	1, 2	Cleveland, Ohio
Schultz, Edwin H.	LA	So.	1, 2	Lomira, Wisconsin
Schultz, Ernst Wm., Jr.	LA	F	1, 2	Sheboygan, Wisc.
Schumacher, Mildred	LA	Ex.	1	Oak Park, Illinois
Schumann, Norbert L.	LA	S	1, 2	Sawyer, Wisconsin
Schuth, John H.	LA	F	1, 2	Freeport, Illinois
Schwan, Clifford A.	LA	So.	1, 2	Cleveland Heights, O.
Schwan, Margaret A.	LA	F	1, 2	Tipton, Indiana
Schwandt, Bernhard	P	F	1, 2	Montevideo, Minn.
Schwiebert, Gayle T.	LA	U	1ST,2ST,1,2	Valparaiso, Indiana
Schwyn, Raymond	E	F	1, 2	Ionia, Michigan
Seegers, Clarence	LA	So.	1, 2	Melrose Park, Illinois
Sheffield, Tom	LA	U	1ST,2ST	Valparaiso, Indiana
Shelksohn, Oliver W.	LA	So.	1, 2	Dorrance, Kansas
Shreckengast, Paul W.	LA	F	1	Millheim, Penn.
	LA	So.	2	
Siebert, Renotta	LA	F	1, 2	Barron, Wisconsin
Sievers, Marjorie B.	LA	U	1ST, 2ST	Valparaiso, Indiana
Sievers, Roland P.	LA	So.	1, 2	Valparaiso, Indiana
Sievert, Paul M.	LA	S	1ST,2ST,1,2	River Forest, Illinois
Sieving, A. W.	E	So.	1, 2	Venedy, Illinois
Singer, Edward H.	LA	S	1ST,2ST,1,2	Edmonton,Alb'ta,Can.
Smatlak, Rudy G.	L	2	1, 2	Chicago, Illinois
Smedman, Melvin E.	LA	F	1, 2	Chesterton, Indiana
Smith, Fay Jane	LA	U	2ST	Chico, Texas
Smith, Warren M.	E	U	1, 2	Valparaiso, Indiana
Snyder, Clelland	P	S	1, 2	New Haven, Indiana
Spear, Lester H.	LA	So.	1, 2	Michigan City, Ind.
Spelzhausen, Harry	LA	S	1, 2	Cleveland, Ohio
Sprogis, Nathalie	LA	S	2	River Forest, Illinois
Stade, William J.	E	S	1, 2	Milwaukee, Wisconsin
Steeples, Anthony	P	S	1ST,2ST,1,2	Chicago, Illinois
Stein, Roland	E	F	1, 2	Detroit, Michigan
Steinbach, Herbert E.	LA	S	1, 2	Marseilles, Illinois
Steinbach, Louis F.	LA	F	1, 2	Marseilles, Illinois
Steinhebel, Milda C.	LA	S	1, 2	Milwaukee, Wisc.
Steinhoff, Jeane	LA	So.	1, 2	Chicago, Illinois
Stephens, Roscoe L.	P	F	1, 2	E. Chicago, Indiana
Stiegler, Benny W.	LA	S	1ST,2ST,1,2	Fort Wayne, Indiana
Stoetzer, Gerald	L	1	1, 2	Detroit, Michigan
Strehlow, Clara E.	LA	Ex.	1	Addison, Illinois
Struck, Peter J.	LA	J	1, 2	Norwood Park, Ill.

Name of Student	C	Y	Attendance	Home Address
Struebig, Wilbur C.	P	S	1, 2	Crown Point, Indiana
Stueckler, Ernest	E	J	1, 2	Birmingham, Ala.
Swartzell, Lawrence	LA	F	1, 2	La Porte, Indiana
Sutton, Helen	LA	F	1	Valparaiso, Indiana
Ternand, Lorraine D.	LA	S	1ST,2ST,1,2	Chicago, Illinois
Tewes, Donald E.	LA	F	1, 2	Merrill, Wisconsin
Theurer, William P.	LA	S	1, 2	Winona, Minnesota
Thober, William A.	P	F	1, 2	Elmore, Ohio
Thomas, Paul E.	LA	U	2	Winamac, Indiana
Thomsen, Walter L.	E	F	1, 2	Chicago, Illinois
Timken, Arthur R.	LA	S	1ST	Beatrice, Nebraska
Tofte, Joe	LA	F	1	Valparaiso, Indiana
Tratebas, Edmund	LA	F	1	Valparaiso, Indiana
Troutwine, Gale H.	LA	So.	1	Michigan City, Ind.
Uban, Chester W.	P	F	1, 2	Hawley, Pennsylvania
Van Winkle, Ruth	LA	So.	1, 2	Valparaiso, Indiana
Vasil, Stanley D.	P	S	1ST,2ST,1,2	Chicago, Illinois
Wachholz, Paul	LA	F	1, 2	Milford Center, Ohio
Wacknitz, Grant R.	LA	S	1, 2	Medaryville, Indiana
Wait, Horatio H.	E	F	1, 2	Chesterton, Indiana
Waldschmidt, Melvin W.	LA	So.	1, 2	Grand Haven, Mich.
Waldschmidt, Olga E.	LA	Ex.	1	Chicago, Illinois
Waldschmidt, Rudolph	LA	U	2ST	Chicago, Illinois
Waldschmidt, Victor	LA	U	2ST	Chicago, Illinois
Walton, David J.	E	F	1, 2	Sturgis, Michigan
Watson, Robert	LA	J	1, 2	St. Louis, Missouri
Weiss, Helen	LA	J	1, 2	Cincinnati, Ohio
Westphal, Norman	L	2	1, 2	Detroit, Michigan
Weyl, Kenneth C.	LA	So.	1, 2	St. Paul, Minnesota
Wieggel, Walter W.	LA	So.	1, 2	Grant Park, Illinois
Wiener, Milton	LA	F	1, 2	Michigan City, Ind.
Wienhorst, Matilda	LA	S	1, 2	Seymour, Indiana
Wirth, Edward P.	LA	U	1ST	Bay City, Michigan
Wissman, William O.	P	S	1, 2	New Haven, Indiana
Wittmer, William F.	LA	Ex.	1	Brookfield, Illinois
Woempner, Robert C.	LA	F	1, 2	Indianapolis, Indiana
Wolff, Raymond A.	L	1	1, 2	Elgin, Illinois
Wolter, Arthur L.	LA	U	1ST	Unionville, Michigan
Wolter, Carl A.	LA	U	1ST	Gary, Indiana
Woods, Betty C.	LA	J	1, 2	Valparaiso, Indiana
Wunsch, Kenneth K.	LA	J	1, 2	Buffalo, New York
Wyneken, Hildegarde	LA	F	1, 2	Fort Wayne, Indiana
Wyss, Helen	LA	Ex.	1	Chicago, Illinois
Yelsik, William F.	LA	So.	1, 2	E. Port Chester, Conn.
Younglove, Robert	LA	F	1, 2	Knox, Indiana
Zeigler, Samuel H.	LA	F	1, 2	Fort Wayne, Indiana
Zeigler, William S.	LA	F	1, 2	Fort Wayne, Indiana
Zimmerman, Helen R.	LA	F	1, 2	Portage, Wisconsin
Zimmerman, Jack	LA	U	1ST, 2ST	Valparaiso, Indiana
Zimmerman, Walter C.	LA	J	1, 2	Meriden, Conn.
Zinn, Ethel R.	LA	S	1ST, 2ST	Valparaiso, Indiana

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