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THE

UNIVERSITY OF WISCONSIN

CATALOGUE

1919-1920

BULLETIN OF THE UNIVERSITY OF WISCONSIN
Serial No. 1057, General Series No. 841

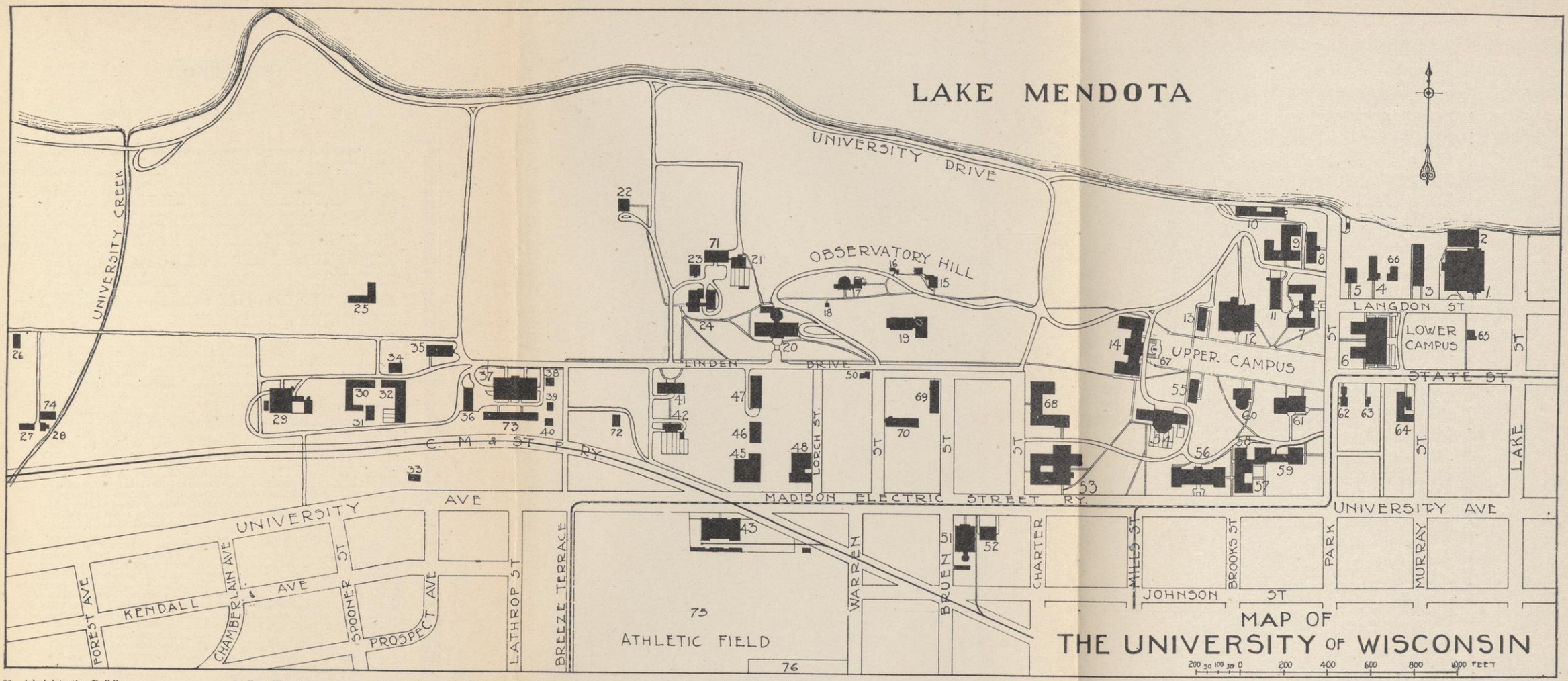
THE
UNIVERSITY OF WISCONSIN

CATALOGUE

1919-20

MADISON
Published by the University
May, 1920

Issued monthly by the University of Wisconsin at Madison, Wisconsin.
Entered as second class matter, July 11, 1916, at the postoffice
at Madison, Wisconsin, under the Act of August 24, 1912.



62 Administration Building
45 Agricultural Chemistry Building
47 Agricultural Engineering Building
20 Agricultural Hall.
46 Agronomy Building.
63 Alumni Headquarters
37 Animal Husbandry and Live Stock Pavilion
65 Applied Arts Laboratory
75 Athletic Field—Camp Randall.
57 Barnard Hall.
54 Biology Building.

2 Boat Houses.
69 Bradley Memorial Hospital.
51 Central Heating Station.
59 Chadbourne Hall.
8 Chemical Engineering Building.
53 Chemistry Building.
4 Clinical Building.
29 Dairy Barn.
24 Dairy Building—Hiram Smith Hall.
23 Dairy Machinery Laboratory.

12 Engineering Building.
9 Engineering Laboratories.
72 Entomology Building.
32 Genetics Building.
19 Extension Division and Home Econ. Building.
39 Farm Dormitory.
43 Forest Products Laboratory.
1 Gymnasium and Armory with Annex.
25, 27 Hog Barns.
35 Horse Barn

41 Horticultural Building.
10 Hydraulic Laboratory and Pump House.
34 Implement Shed
58 Kitchen, University Commons.
56 Lathrop Hall.
60 Law Building.
67 Lincoln Statue.
76 Memorial Park. Women's Field House
11 Mining Engineering Laboratory.
50 Model Cottage.

61 Music Hall.
13 North Hall.
18 Observatory, Solar.
16 Observatory, Student.
17 Observatory, Washburn.
68 Physics Economics Building.
42 Potting House.
33 Poultry House.
22 Residence of Dean of Agriculture.
40 Residence of Farm Superintendent.

5 Residence of President.
38 Residence of Stock Superintendent.
15 Residence of Director of Washburn Observatory.
7 Science Hall.
52 Service Building.
74 Hog Cholera Serum Plant.
30 Sheep Barn.
71 Soils Physics Building.
55 South Hall.
6 State Historical Library.

31 Stock Auditorium.
66 Student Union.
70 Student Infirmary.
73 Timber Mechanics Laboratory.
26 Tobacco Shed.
64 University Club.
14 University Hall.
36 Wagon Shed
48 Wisconsin High School
3 Y. M. C. A. Building.

1 Gymnasium and Armory with Annex.
2 Boat Houses.
3 Y. M. C. A. Building.
4 Clinical Building.
5 Residence of President.
6 State Historical Library.
7 Science Hall.
8 Chemical Engineering Building.
9 Engineering Laboratories.
10 Hydraulic Laboratory and Pump House.
11 Mining Engineering Laboratory.
12 Engineering Building.
13 North Hall.
14 University Hall.
15 Residence of Director of Washburn Observatory.
16 Observatory, Student.
17 Observatory, Washburn.
18 Observatory, Solar.
19 Home Economics and Extension Division Building.
20 Agricultural Hall.
21 Soils-Physics Building.
22 Residence of Dean of Agriculture.
23 Dairy Machinery Laboratory.
24 Dairy Building—Hiram Smith Hall.
25 Hog Barn.
26 Tobacco Shed.
27 Hog Barn.
28 Serum Plant.
29 Dairy Barn.
30 Sheep Barn.
31 Stock Auditorium.
32 Genetics Building.
33 Poultry House.
34 Implement Shed.
35 Horse Barn.
36 Wagon Shed.
37 Animal Husbandry and Live Stock Pavilion.
38 Residence of Stock Superintendent.
39 Farm Dormitory.
40 Residence of Farm Superintendent.
41 Horticultural Building.
42 Potting House.
43 Forest Products Laboratory.
45 Agricultural Chemistry Building.
46 Agronomy Building.
47 Agricultural Engineering Building.
48 Wisconsin High School.
50 Model Cottage.
51 Central Heating Station.
52 Service Building.
53 Chemistry Building.
54 Biology Building.
55 South Hall.
56 Lathrop Hall.
57 Barnard Hall.
58 Kitchen, University Commons.
59 Chadbourne Hall.
60 Law Building.
61 Music Hall.
62 Administration Building.
63 Alumni Headquarters.
64 University Club.
65 Applied Arts Laboratory.
66 Student Union.
67 Lincoln Statue.
68 Physics Economics Building.
69 Bradley Memorial Hospital.
70 Student Infirmary.
71 Soils Physics Building.
72 Entomology Building.
73 Timber Mechanics Laboratory.
74 Hog Cholera Serum Plant.
75 Athletic Field.
76 Memorial Park

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1920

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	--	--	--
--	--	--	--	--	--	--

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	--
--	--	--	--	--	--	--

1921

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*	--	--	--	--	--

Febr uary.

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	--	--	--	--	--
--	--	--	--	--	--	--

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
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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	--	--
--	--	--	--	--	--	--

July.

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	*8*	9
10	11	12	1	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	--	--	--
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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	--	--	--
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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
--	--	--	--	--	--	--

CALENDAR

1919		
Sept. 29–30 Oct. 1	Mon.–Tu.–Wed.	Registration days.
Sept. 29–30	Mon.–Tu.	Examinations for admission.
Oct. 2	Thursday	Lectures and recitations begin.
Oct. 4	Saturday	Special examinations for removal of conditions.
Nov. 27	Thursday	Thanksgiving Day: legal holiday.
Dec. 23	Tues. (5:30 p. m.)	Christmas recess begins.
Jan. 5	Mon. (8 a. m.)	Exercises resumed.
1920		
Jan. 17	Saturday	Examinations for removal of conditions.
Feb. 2–11	Mon.–Wed.	Final examinations, first semester.
Feb. 12–13	Thurs.–Fri.	Registration days.
Feb. 16	Monday	Lectures and recitations begin.
Feb. 23	Monday	Washington's Birthday: legal holiday.
April 14–20	Wed.–Tues. (inclusive)	Spring recess.
April 24	Saturday	Examinations for the removal of conditions.
May 31	Monday	Memorial Day: legal holiday.
June 12–18	Sat.–Fri.	Final examinations, second semester.
June 17–18	Thur.–Fri.	Examinations for admission.

Commencement Week

June 20	Sunday	Baccalaureate Address.
June 21	Monday	Class Day Exercises.
June 22	Tuesday	Alumni Day
June 23	Wednesday	Commencement Day.

Summer Session

June 28	Monday	Summer Session opens.
Aug. 6	Friday	Summer Session closes.

THE ACADEMIC YEAR 1920-1921

1920		
Sept. 20, 21, 22	Mon.–Tu.–Wed.	Registration days.
Sept. 20, 21	Mon.–Tu.	Examinations for admission.
Sept. 23	Thursday	Lectures and recitations begin.
*Sept. 25	Saturday	Special examinations for removal of conditions.
Nov. 25	Thursday	Thanksgiving Day: legal holiday.
Dec. 16	Thurs. (12 M.)	Christmas recess begins.
1921		
Jan. 4	Tues. (8 A. M.)	Exercises resumed.
Jan. 15	Saturday	Examinations for removal of conditions.
Jan. 31–Feb. 9	Mon.–Wed.	Final examinations, first semester.
Feb. 10, 11	Thurs.–Fri.	Registration days.
Feb. 14	Monday	Lectures and recitations begin.
Feb. 22	Tuesday	Washington's Birthday: legal holiday.
April 13–19	Wed.–Tues. (inclusive)	Spring recess.
April 23	Saturday	Examinations for the removal of conditions.
May 30	Monday	Memorial Day: legal holiday.
June 11–17	Sat.–Fri.	Final examinations, second semester.
June 16, 17	Thur.–Fri.	Examinations for admission.
June 19–22	Sun.–Wed.	Commencement week.

* See requirements outlined in *Regulations for the Guidance of Undergraduate Students.*

THE UNIVERSITY OF WISCONSIN

ORGANIZATION AND DIRECTORY OF ADMINISTRATIVE OFFICERS

Edward A. Birge, President—University Hall.

Educational Administration

S. H. Goodnight, Dean of Men—South Hall.
F. Louise Nardin, Dean of Women—Lathrop Hall.
M. H. Haertel, Secretary of the Faculty—University Hall.
W. D. Hiestand, Registrar—University Hall.
T. Lloyd Jones, Chairman, Committee on High School Relations—University Hall.
W. M. Smith, Librarian—Library.

Business Administration

H. J. Thorkelson, Business Manager—Administration Building.
M. E. McCaffrey, Secretary of the Regents—Administration Building.
C. W. Vaughn, Accountant—Administration Building.
G. L. Gilbert, Bursar—Administration Building.
A. H. Labisky, Purchasing Agent—Administration Building.
O. C. Gillett, University Editor—Administration Building.
G. M. Hyde, Editor of the Press Bulletin—South Hall.

The College of Letters and Science

George C. Sellery, Dean—2 South Hall.
F. W. Roe, Junior Dean—3 South Hall.

The School of Music
C. H. Mills, Director—21 Music Hall.
The Course in Chemistry.
J. H. Mathews, Director—153 Chemistry Building.
The Course in Commerce.
W. A. Scott, Director—407 Physics-Economics Building.

THE COURSE IN JOURNALISM.
W. G. Bleyer, Director—33 South Hall.
THE LIBRARY SCHOOL.
M. S. Dudgeon, Director—Capitol.
THE COURSE IN PHARMACY.
Edward Kremers, Director—303 Chemistry Building.
THE DEPARTMENT OF PHYSICAL EDUCATION.
T. E. Jones, Chairman—1A Gymnasium.
THE SCHOOL OF EDUCATION.
V. A. C. Henmon, Director—123 University Hall.

The College of Engineering

F. E. Turneaure, Dean—111 Engineering Building.
J. D. Phillips, Assistant Dean—303 Engineering Building.
THE CIVIL ENGINEERING COURSE.
THE MECHANICAL ENGINEERING COURSE.
THE ELECTRICAL ENGINEERING COURSE.
THE CHEMICAL ENGINEERING COURSE.
THE MINING ENGINEERING COURSE.

The College of Agriculture

H. L. Russell, Dean—101 Agricultural Hall.
J. A. James, Assistant Dean—105 Agricultural Hall.
THE EXPERIMENT STATION.
THE LONG COURSE IN AGRICULTURE.
THE MIDDLE COURSE IN AGRICULTURE.
THE COURSE IN HOME ECONOMICS.
Abby L. Marlatt, Director—119 Home Economics Building.
THE SHORT COURSE IN AGRICULTURE.
THE DAIRY COURSE.
THE FARMERS' INSTITUTES.

The Law School

H. S. Richards, Dean—Law Building.

The Medical School

C. R. Bardeen, Dean—Clinical Building.

The Graduate School

G. C. Comstock, Dean—157 University Hall.

The University Extension Division

L. E. Reber, Dean—108 University Extension Building.

THE DEPARTMENT OF INSTRUCTION BY LECTURES.

THE DEPARTMENT OF CORRESPONDENCE-STUDY.

THE DEPARTMENT OF GENERAL INFORMATION AND WELFARE.

THE DEPARTMENT OF DEBATING AND PUBLIC DISCUSSION.

The Summer Session

S. H. Goodnight, Director—22 South Hall.

THE REGENTS

EDWARD A. BIRGE, President of the University, *ex-officio*
CHARLES P. CARY, State Superintendent of Public Instruction, *ex-officio*

	TERM EXPIRES
State-at-Large—GILBERT E. SEAMAN, Milwaukee	1925
State-at-Large—MRS. FLORENCE G. BUCKSTAFF, Oshkosh	1923
First District—A. J. HORLICK, Racine	1925
Second District—WALTER J. KOHLER, Kohler	1924
Third District—CHARLES H. VILAS, Madison	1925
Fourth District—THEODORE M. HAMMOND, Wauwatosa	1922
Fifth District—JAMES F. TROTTMAN, Milwaukee	1921
Sixth District—MISS FRANCES G. PERKINS, Fond du Lac	1921
Seventh District—D. O. MAHONEY, Viroqua	1926
Eighth District—GRANVILLE D. JONES, Wausau	1922
Ninth District—EDWARD W. MILLER, Marinette	1924
Tenth District—BEN F. FAAST, Eau Claire	1926
Eleventh District—PETER EIMON, Superior	1923

THE BOARD OF VISITORS

Regent Appointments

	Term Expires
W. M. Spooner, Milwaukee	July 1, 1920
John E. McConnell, La Crosse	July 1, 1921
Mrs. Charles R. Carpenter, Chicago	July 1, 1922
George P. Hambrecht, Madison	July 1, 1923

Alumni Appointments

Will A. Foster, Elkhorn	July 1, 1920
Walter A. Rogers, Chicago	July 1, 1921
Mrs. Howard Greene, Milwaukee	July 1, 1922
Israel Shrimski, Chicago	July 1, 1923

Governor's Appointments

E. B. Belden, Racine	July 1, 1920
L. J. Stair, Brodhead	July 1, 1921
W. A. Titus, Fond du Lac	July 1, 1922
Mrs. Chas. M. Morris, Milwaukee	July 1, 1923

THE OFFICERS OF INSTRUCTION AND ADMINISTRATION

UNIVERSITY FACULTY

"The University Faculty shall consist of the President of the University, all deans and directors, professors, associate professors, assistant professors, acting professors, lecturers on regular appointment, the mistresses of the Women's Halls, the superintendent of agricultural institutes, Librarian and assistant librarians, and the High School Inspector." (Laws of the Regents, Chapter 111, Section 2 (2), page 137—1914 edition.)

"The faculty of each college, school, or division shall consist of the President of the University, the Dean, and all persons who give instruction in that college, school or division with the exception of student assistants, fellows, and scholars." (Laws of the Regents, Chapter 111, Section 3 (2), page 139—1914 edition.)

The number preceding the name indicates:

[1] Leave of absence, academic year, 1919–20.
[2] Leave of absence, first semester, 1919–20.
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LEONARD, ELSIE PRESTON, B.A., Director of Halls and Commons. Assistant Professor of Institutional Management. *Chadbourne.* Chadbourne
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STANDING COMMITTEES OF THE UNIVERSITY FACULTY*

Administrative—The President, deans and secretary of the faculty.

Appeals—Professor Hubbard, chairman; the deans and advisers of students concerned, *ex officio;* Professors Pearse, Gilmore, Bennett, Whitson, Dean Goodnight in cases relating to men; and Dean Nardin in cases relating to women.

Cardinal Advisory—Professor Hyde, chairman; Professors K. F. McMurray and Sumner.

Catalogue—Professor Haertel, chairman; Professors Frost and Millar.

†*Convocations*—Dean Goodnight, chairman; Professor Millar and Mr. Haake; Fred Bickel and Florence Hanna.

Discipline—Professor Wagner, chairman; the deans, *ex officio*, regarding students in their respective colleges; Professors Bradley, Dowling, Maurer, Twenhofel; Dean Nardin in cases relating to women; Dean Goodnight in cases relating to men.

†*Editors of the University of Wisconsin Studies:*
Chairman: Professor Lathrop.
Secretary: The University Editor, *ex officio.*
Editor for Language and Literature: Professor Young.
Editor for Science: Professor Marshall.
Editor for Social Sciences and History: Professor Byrne.

High School Relations—Professor Thomas Lloyd Jones, chairman; Professors Bair, Chase, Crawshaw, Fiske, Gillen, Haertel, James, Phillips, Robinson, Skinner and Whitbeck.

†*Freshman*—Chairman of freshman advisers in each college, *ex officio;* Professor Roe, chairman; Professors James and Phillips.

Graduate School—Dean Comstock, chairman; Professors Cole, Guyer, Root, Slaughter and Young.

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* The President is, *ex officio*, a member of all standing committees.
† The secretary of the Faculty is, *ex officio*, a member of each admin s-trative committee.

Honorary Degrees—Professor Paxson, chairman; the deans, *ex officio;* Professors L. R. Jones, McGilvary, and Scott.

†*Lectures*—Professor Jastrow, chairman; Professors Campbell, O'Neill, Overton and Van Hagan.

Library—President Birge, Professor W. M. Smith, *ex officio* (elected), Professors Cerf, Bennett, Dowling, Loevenhart, McGilvary, Root and Wagner.

†*Loans and Undergraduate Scholarships*—Professor Olson, chairman; Professors Dowling, Fred, Goodnight, Krueger, Millar, Sterling and Mrs. Flett.

Nominations—(Elected) Professors C. E. Allen, Kowalke, Page.

†*Public Functions*—Professor Olson, chairman; Professors Corp, Fuller, Hyde and Kowalke.

Regent-Faculty Conference—The President of the University, *ex officio;* Regents: Buckstaff, Cary, Hammond, Jones, Mahoney, Perkins, Seaman; Faculty: (elected) C. E. Allen, Beatty, Comstock, Corp, Haake, Henmon, Maurer, Nardin, Paxson, Richards, Slichter, H. L. Smith, Young; Gilmore, Chairman of the University Committee, *ex officio.*

Research—President Birge and Dean Comstock, *ex officio;* Professor Slichter, chairman; Professors Bennett, E. B. Hart, Mathews, and Scott.

Rooms and Time-Table—Professor Haertel, chairman; Professors W. H. Wright, Denniston, Kiekhofer, W. S. Kinne, Krauskopf, March, Mills, H. L. Smith, Terry and Twenhofel.

Student Life and Interests—Dean Goodnight, chairman; Dean Nardin, assistant chairman.

Athletics: Professor Pyre, chairman; Professor T. E. Jones, secretary; Professor Thorkelson, business manager; Professors J. G. Moore and Kowalke; Miss Trilling, in cases relating to women; E. J. McEachron, alumni member; Charles H. Carpenter, student member.

Living Conditions and Hygiene: Professor Hastings, chairman; Professors Clark, Lowman, Mrs. Flett and Dr. Morris.

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† The secretary of the Faculty is, *ex officio*, a member of each administrative committee.

Musical Organizations: Professor Mills, chairman; Professor Swinney and Mr. Beck.

Oratory and Dramatics: Professor O'Neill, chairman; Professors Byrne and Gertrude Johnson.

Publications: Professor Bleyer, chairman; Professors Gardner and W. Taylor.

Society, Fraternities, and Politics: Professor C. E. Allen, chairman; Professors Fred and Root.

Training of Teachers—Professor Henmon, chairman; Professors Cool, Fiske, Gilbert, W. W. Hart, James, Lenher, Manchester, Marlatt, H. L. Miller, O'Shea, Sellery and Sharp.

University—(Elected) Professor Gilmore, chairman; Professors Commons, L. R. Jones, C. K. Leith, McGilvary, Meek and Westermann.

War Credits—Professor Beatty, chairman; Chester Allen, Professors Cerf, Corp, Mortimer and Dean Sellery.

CHAIRMEN OF DEPARTMENTS

College of Letters and Science

Anatomy,	Professor Bardeen.
Astronomy,	Professor Comstock.
Botany,	Professor Overton.
Chemistry,	Professor Mathews.
Classics,	Professor Slaughter.
Economics,	Professor Ely.
Education,	Professor Henmon.
English,	Professor Young.
Geology,	Professor C. K. Leith
German,	Professor Hohlfeld.
History,	Professor Paxson.
Journalism,	Professor Bleyer.
Manual Arts,	Professor Crawshaw.
Mathematics,	Professor Slichter.
Music,	Professor Mills.
Pathology,	Professor Bunting.
Pharmacology,	Professor Loevenhart.
Pharmacy,	Professor Kremers.
Philosophy,	Professor McGilvary.
Physical Education,	Professor T. E. Jones.
Physics,	Professor Snow.
Physiology,	Professor Eyster.
Political Science,	Professor Ogg.
Public Speaking,	Professor O'Neill.
Romance Languages,	Professor H. A. Smith.
Scandinavian Languages,	Professor Olson.
Semitic Languages and Hellenistic Greek,	Asst. Professor Wolfenson.
Zoology,	Professor Guyer.

College of Engineering

Chemical Engineering,	Professor Kowalke.
Drawing,	Professor Phillips.
Electrical Engineering,	Professor Bennett.
Engineering Shops,	Assistant Professor Dabney.
Forestry and Wood Technology,	Lecturer Tiemann.
Hydraulic and Sanitary Engineering,	Professor D. W. Mead.
Machine Design,	Assistant Professor Hyland.
Mechanics,	Professor Maurer.
Mining and Metallurgy,	Professor McCaffery.
Railway Engineering,	Associate Professor Van Hagan.
Steam and Gas Engineering,	Professor Larson.
Structural Engineering,	Associate Professor Kinne.
Topographic and Geodetic Engineering,	Professor L. S. Smith.

College of Agriculture

Agricultural Bacteriology,	Professor Hastings.
Agricultural Chemistry,	Professor Hart.
Agricultural Economics,	Professor Hibbard.
Agricultural Education,	Professor James.
Agricultural Engineering,	Professor E. R. Jones.
Agricultural Journalism,	Professor Hopkins.
Agronomy,	Professor R. A. Moore.
Animal Husbandry,	Professor Humphrey.
Dairy Husbandry,	Professor Farrington.
Economic Entomology,	Professor Wilson.
Genetics,	Professor Cole.
Home Economics,	Professor Marlatt.
Horticulture,	Professor J. G. Moore.
Plant Pathology,	Professor L. R. Jones.
Poultry Husbandry,	Professor Halpin.
Soils,	Professor Whitson.
Veterinary Science,	Professor Hadley.

HISTORY AND GOVERNMENT

In the settlement of the pioneer regions of the United States, it very early became the established practice to set apart a share of the unoccupied land for the support of an institution of higher learning. Immigrants were thus assured that the opportunities of an advanced education would not be denied the children of the new community because the founders of it had ventured into the wilderness. This system, conceived in a spirit of statesmanship at once high and prudent, tended to draw an intelligent body of citizens into the region which was being settled, and to set at work forces which would be felt in the permanent elevation of the tone of public education. Thus in 1836, the first year of the territory of Wisconsin, steps toward the establishment of a university were taken by the territorial legislature. In 1839, the National Congress granted to the territory two townships of public land "for the use and support of a university"; and in 1848, when Wisconsin was applying for admission to statehood, provisions for the University were written into the constitution laid before Congress.

The state was admitted May 29, 1848; the necessary legislative acts providing for the organization of the University were approved July 26 of the same year; and the first Board of Regents met at Madison in October. The new state had nothing with which to endow the new institution but the unsettled land already granted to it. The Regents, therefore, had before them the choice of two courses—to sell the lands at low prices in competition with the other wild lands of the state, or to refrain from selling until the increase of population should have raised the value of the university property to a substantial amount. The one course would sacrifice the material endowment; the other would prevent the state from benefiting by the influence of the University in its formative years. The Regents, wisely, as the history of the state has proved, determined to open the institution without delay. The financial operations which followed have been severely condemned, but there can be no question that the intelligent bounty of the state legislature has afforded the University a safer and a far more generous support than the largest possible endowment that could have been secured by the

conservative management of the land of the institution. Moreover, the direct dependence of the University upon the legislature has made it a part of the life of the state in an intimate way, and by making higher education a practical matter for all citizens, has performed a useful service as an element in raising political questions above a merely material plane.

The new institution began instruction in February, 1849. It bore the name of a University, but had in operation only a preparatory school of twenty pupils, under the tuition of John W. Sterling, a graduate of Princeton, who bore the title of Professor of Mathematics. Professor Sterling gave a life of sacrificial devotion to the institution as it added to its academy a little college, and as the little college carried on its struggling and painful life. He was happy enough to live until the University began to assume proportions worthy of its ambitious name. The chancellor, John H. Lathrop, a graduate of Yale, called from the presidency of the University of Missouri, entered upon his duties in the autumn of 1849. He was a man whose plans were genuinely large and at the same time definite but were in the main never realized because of the paucity of funds. He insisted upon maintaining a solid classical course as the nucleus about which all possible future developments were to be gathered but which was never to be sacrificed to any other objects, however plausible they might seem and however much he desired to meet them. Under his administration (1849–1858) the faculty grew to seven members, and some systematic instruction was given in modern languages, English literature, the art of teaching, and agriculture, as well as in ancient languages, mathematics and philosophy. The college was bitterly criticized. There was a feeling abroad, vague but insistent, that the University did not do for the community what it should. A "practical" education was wanted, without any clear idea of what a practical education might be, or how expensive the equipment for it must be. Chancellor Lathrop resigned, and after a few months, during which the well known educational theorist, Henry Barnard, then in ill health, held the title of chancellor, the administration lapsed into the hands of the faculty, Professor Sterling presiding as vice-chancellor. The dark days of the Civil War followed. The professors lived on half pay. Many of the students took their places in the army, so that in 1864 no commencement exercises were held, only one of the senior class being in residence.

The maintenance of the institution during these days of struggle had this important effect—that a center and a tradition were cre-

ated. The material beginning of the University may fairly be said to be the grant under the Morrill act (1862) for the support of a college of agriculture and mechanic arts "without excluding other scientific and classical studies." This noble statute bears evidence of the influence of the Civil War in that it made instruction in military tactics a condition of the continuance of the grant. The very smallness of the literary college perhaps made it the more natural to amalgamate the new institution with the old, and thus to give to the University of Wisconsin its peculiar character. In the state all types of highest instruction, whether liberal, professional, or technical, are given by the one institution. A school of music and the beginnings of a school of decorative art have since been added; and in addition many scientific bureaus are administered in close relation with the University. The University of Wisconsin has accordingly a very great diversity of functions and a very complex organization. In this way unseemly rivalries among institutions of higher learning conducted by the state have been avoided and the conception of instruction within the University has been in some departments liberalized and in others elevated.

The reorganization of the institution after the acceptance of the Morrill grant was carried out under the vigorous presidency of Dr. Paul A. Chadbourne of Williams College (1867–1870). A department of agriculture and a college of law were established in 1868; steps were taken toward the acceptance of women students on an equality with men; and the legislature began, first of all, to appropriate moneys to compensate for the impairment of the university fund, later assumed the responsibility of providing necessary buildings, and finally took the step of voting direct taxes for the support of the University. At the same time a system bringing the University into close relations with high schools in the state was organized. The presidency of Dr. John H. Twombly (1871–1874) followed that of Dr. Chadbourne.

The foundations of the University had now been laid, and the policy of including within it a group of technical and professional colleges, as well as a strong college of liberal arts, had been determined upon. During the presidency of Dr. John Bascom (1874–1887) the University was developed into a firmly organized and well equipped teaching institution, was brought into close and orderly relations with the other public schools of the state, and was made a moral force in the lives of its students and of the community. Dr. Bascom found the recognition of coeducation half-hearted and ambiguous and made it distinct and complete. He found the income

deficient, the buildings, the library, and the scientific apparatus inadequate, and the faculty too small for the proper division of departments and the maintenance of high standards. In every point the institution was put on a sound basis. Buildings were erected and satisfactorily equipped, especially for the science departments. The library was enlarged. The faculty became a body of specialists, and not of general teachers. Dr. Bascom more than any other man was responsible for the increase in income which made this progress possible, by the creation of a ratio tax, established in 1876 in the proportion of one-tenth mill to each dollar of the property valuation of the state. The system has been maintained with few interruptions and with liberal increases ever since. Finally the free high schools, the establishment of which was promoted by an act of 1875, granting state aid to such institutions, were bound to the University by a system of accrediting their graduates on the one hand, and on the other by the recognition of the university degree as a qualification for a certificate to teach in the public schools of the state.

In the administration of Dr. Bascom's successor, Dr. Thomas Chrowder Chamberlain (1887–1892), a graduate of Beloit College, the strong college of Dr. Bascom began to grow into a true university. In all ways graduate work assumed a place as an active part of the institution. Scholars with the ideals of research brought from Johns Hopkins or from Germany were added to the faculty. The first university fellowships were established. The degree of doctor of philosophy was offered. A new organization, into the Colleges of Letters and Science, Engineering, Agriculture and Law, effected in 1889, testifies to the growing vigor and more distinctly understood aims of the professional and technical institutions. Intercollegiate debates and athletics and "student activities" began to be heard of, and in brief the tendencies which have resulted in the conditions of the present day showed themselves definitely.

During the presidency of Dr. Charles Kendall Adams (1892–1901) these tendencies became dominant. A large armory and gymnasium was built. An athletic field was acquired—Camp Randall, the historic encampment where the Wisconsin troops were concentrated during the Civil War. The University became socially more complex. A dean of women was appointed. A school of music and a choral society were established. In every way the institution developed. The colleges of law and of engineering grew rapidly, and had to be provided with new buildings. The fields of political, economic, and social science and of history were greatly strengthened. The

University had become very definitely the recognized culmination of the public instruction of the state, and was resorted to in increasing numbers by graduates of the state normal schools. The institution was cramped for want of room; and though the increases in building and equipment were rapid, they barely kept pace with the enormous growth in the number of students. The crowning achievement of Dr. Adams's administration was the erection on university ground of a building to house, with the University library, the library of the State Historical Society—a reference library of great value, and in some aspects unique. The improvement of the facilities placed at the service of the University by the opening of the library, which took place in 1900, marks an epoch in the history of the institution.

Dr. Adams's health failed in 1900; and from that time to 1903, with but a few weeks of interruption, Dr. Edward Asahel Birge, for many years a member of the faculty and then Dean of the College of Letters and Science, was acting president. Throughout the entire period the increase in numbers and the corresponding development of the work of the institution went on uninterruptedly.

Charles Richard Van Hise, professor of geology, was the first alumnus of the University to be called to the presidency, which he assumed in 1903 and occupied until his death on November 19, 1918. The material progress of the institution continued under his administration. The College of Agriculture became an important teaching college, as well as an institution of research. A course in home economics was created; the first two years of a medical course were given. Courses in journalism, in chemistry, for training of teachers, were established, while the older similar school of Commerce, now denominated a Course, continued to thrive. Lagging somewhat behind these advances have come the material provisions for them, so that the University remains crowded. The mere enumeration of the newly organized courses illustrates the fact that during the administration of President Van Hise, the tendency of the University to accentuate professional equipment rather than a liberal culture suffered no abatement. At the same time, the work of the departments of the humane arts and the pure sciences constituted the largest single part of the activity of the University, and the opportunity and the ideal of liberal culture were maintained with energy.

The war made a deep impress upon the life of the University. In such a national crisis an institution of higher learning manifests its ideals mainly through the response of those who have received its training and imbibed its spirit. The University fostered the

ability and encouraged the desire of its faculty, alumni, and students to be of directly active use to their country, an ability and a desire which have been abundantly manifested. For the alumni it could do little directly, but it has carefully preserved the record of their service as a memorial to the future. To the members of the faculty called to war work, it granted leave of absence on generous terms. The total of faculty, alumni, and students in active military service was upwards of 5,000 men.

The signing of the armistice did not terminate the University's connection with the war, for many students and not a few of the professors remained in service in the war zone, or in the Army's educational schools, or aided the American Commission in the manifold duties of settling the terms of the Peace of Versailles. In all the labors of war and of the coming peace, President Van Hise was untiringly active, and his death, a few days after the armistice, was in truth another sacrifice which the Great War imposed upon the University.

In January, 1919, Edward Asahel Birge, who had been Dean of the College of Letters and Science since 1891, was elected to succeed President Van Hise.

The University of Wisconsin is the culmination of the free educational system of the state. In the educational policy of the state, the University is related to the high schools as are the high schools to the primary and grammar schools. It is not expected that all pupils who complete the grammar grades will advance to the high school; nor is it expected that all who complete a high school course will go forward to the University. But the school system of the state has been so arranged as to make advancement from one step to another as easy and natural as possible. The University encourages in its teachers and advanced students research, including learning, investigation, and the application of scientific knowledge to the arts of life. Its largest work is to disseminate knowledge through the systematic discipline of organized courses to resident students, both in liberal and professional study. In addition, the University, through an Extension Division organized upon the broadest basis, assists those who for any reason cannot become resident students to enjoy the benefits of its facilities and equipment, with the fewest possible restrictions.

The University is supported partly by the income of federal grants, partly by taxation of the people of the state, partly by student fees, and to a slight extent by private gifts. There have been several federal grants, namely: The two-Township Grant of 1848; the Sup-

plementary Two-Township Grant of 1854; the Morrill Grant of 1862 for the support of studies pertaining to agricultural and mechanic arts; the Hatch Grant of 1887 for the support of agricultural experiment stations; the Supplementary Morrill Grant of 1890; the Adams Grant of 1906; the Nelson Grant of 1907; and the Smith-Lever Grant of 1914, for the promotion of extension work in agriculture and home economics.

Besides numerous and large appropriations for buildings and other scientific purposes, the state of Wisconsin has made a number of continuing grants. The first was the one-tenth mill tax of 1876. The principle of this tax was once temporarily abandoned, but has been recurred to by the legislature, the present ratio being three-eighths of a mill on the dollar.

The more important gifts that have come to the University are from Dane County for the purchase of lands for the University farm; from the late Governor C. C. Washburn for the founding of Washburn Observatory; from the late Judge Mortimer M. Jackson for the establishment of the Mortimer M. Jackson Professorship of Law; from the late Dr. C. K. Adams and Mrs. Adams for the foundation of fellowships; and from Mrs. Fannie P. Lewis for the foundation of scholarships for women. On August 27, 1908, the entire estate of Colonel William F. Vilas was bequeathed to the University, the income, however, in part, or whole if need be, to go to his wife and daughter during their lives. Half the income of the estate is to be used for the support of research professorships, fellowships, and scholarships, and the remainder to increase the principal. In 1911, friends of the University created the Carl Schurz Memorial Foundation, with a fund of $30,000 given in trust to the Regents of the University.

The late J. Stephens Tripp, of Prairie du Sac, made the University residuary legatee of his estate of approximately $400,000. The bequest is chargeable with certain annuities, and like that of Colonel Vilas, will not become available for a number of years. Its freedom from limitations or restrictions of any kind marks it as a remarkable expression of confidence in the permanent administration of a great public educational trust.

The government of the University is vested in the Board of Regents, who possess all the powers necessary to accomplish the objects of its establishment and to perform the various duties prescribed by law.

The Regents, appointed by the governor of the state, include one member from each of the eleven congressional districts, and two

from the state-at-large. At least two of the members are women and the President of the University and Superintendent of Public Instruction are *ex officio* members of the Board.

The Regents appoint all administrative officers and faculty members, and all faculty rules regarding the government of students are subject to their approval.

The University Faculty exercises authority, subject to the approval of the Board of Regents, in all matters relating to educational policy, scholastic standards, and, in general, the relation of students to the University.

All members of the staff of instruction with the rank of assistant professor or above constitute the governing faculty, with power to take action on questions within the jurisdiction of that body. Other members of the staff of instruction have a voice but no vote at all meetings of the University Faculty, with the exception of executive sessions.

The faculty of each college, school, or division is similarly organized for the purpose of administering matters relating solely to its own unit of organization.

DESCRIPTION*

By the provisions of the constitution of the state of Wisconsin the University must be located at or near the state capital, afterwards fixed at the "village of Madison." The founders of Madison intelligently adapted the original plan of the city of Washington to local conditions, selecting an eminence in the center of the city for the site of the capitol, and laying out radial thoroughfares approaching it so that it closes the vista from every direction. A mile to the west, at the end of one of these radial streets, on a second elevation rising abruptly to a height of more than a hundred feet above the south shore of Lake Mendota, the principal building of the University was erected, thus closing the view from the capitol in that direction. This building, University Hall, was constructed in the simple and dignified modification of classical renaissance architecture accepted in America since colonial times. The building, much enlarged, but in a manner harmonious with the original design, still remains the center of the University. From University Hall a broad open avenue lined with elms, the Upper Campus, sweeps downward to the street which leads through the city from the Capitol. Until recently the main buildings of the various colleges and professional schools were placed on either side of the avenue, and outward from it north and south along the eastern border of the university grounds. Here for example are the recitation buildings and laboratories of the College of Engineering and the Law and Medical Schools, and all but the most recent buildings of the College of Letters and Science. Later in the history of the University it was found seriously inconvenient to erect all the buildings on the slopes of hills, and lands were acquired in the low and level part of Madison to the eastward of the Upper Campus and near the lodgings of the body of students. Here is now a group of buildings, such as the offices of the medical staff, the administration building, and the president's house, which are so intimately connected with the general activities of the University that they must be of easy access. The gymnasium and armory stands on the lake shore, with the plant for aquatic sports behind it and an open space covering an acre and a half before it—the Lower Campus —which is utilized as a parade ground and for such athletic sports

* See map following title page.

as do not require the ample area of a regular athletic field. Of all the buildings on this part of the university grounds, the most notable—the most stately of all buildings connected with the work of the University—is the Library Building, which houses the library of the State Historical Society and also the library of the University—an edifice of Bedford limestone with a colonnade and terrace of much beauty and dignity fronting the Lower Campus.

The street along the southern edge of the University Hill is now in great measure built up by recently constructed buildings, the most impressive of which is Lathrop Hall, the women's building, containing a spacious modern gymnasium and swimming pool, a refectory, and accommodations for the social life of the women of the University, and the offices of administration concerned especially with women students. It is built of buff sandstone in a style similar to that in the earlier buildings, but somewhat more ornate, and with its long and lofty facade standing at the top of a high flight of steps and in part flanked by smaller buildings it is next to University Hall the most striking of all the buildings of the University.

About a quarter of a mile to the west of the height on which University Hall stands is a second summit of the ridge, crowned by the Washburn Observatory. On the southern and western slopes of this second hill are the buildings of the College of Agriculture which are used for instruction. The experimental farm of the University, used mainly for experiments in detail with crops and feeding, is in the main on level or slightly sloping ground to the west of Observatory Hill. About the southern and eastern edges of it are the various barns: the horse barn, the dairy barn, the sheep barn, the poultry buildings, and the other buildings required by the College of Agriculture, especially for its demonstration work, such as the Dairy Building and the Horticultural Building. Of all these the most notable is the Stock Pavilion, containing an oval amphitheater with a seating capacity for two thousand people, and an earthen arena for exhibition purposes covering over 10,000 square feet.

The grounds already in part occupied by buildings, 100 acres in all to the edge of the Experimental Farm, will no doubt in the course of no very long time be entirely devoted to the buildings required for purposes of instruction. In addition, the University owns lands along the shore of the lake to the west, mainly uplands with a diversified surface now used as a general farm, and for experiments on a large scale in farm administration and tillage.

The athletic field, forty-two acres in extent, is at some distance to the south of the agricultural buildings. The field includes football

and baseball grounds, a running track, tennis courts, and archery grounds. A modern concrete stadium, a new football field, and a fieldhouse for women were completed in the fall of 1917.

The total area of the grounds of the University is not much less than one thousand acres. They are of marked natural beauty, and provide for the probable increase of the University in a far-sighted way. The grounds have a special archaeological interest because of the abundance in and near Madison of the so-called Indian effigy mounds. These are small mounds of earth in the form of animal and other totems, made by the Winnebago and allied native tribes in prehistoric periods, and are unique, being found only in Wisconsin and along the boundaries of the state to the west and south.

The museums of the University are in the main working illustrative collections for use in connection with the instruction of the departments. The collection of chemical manufactures includes the products of a number of the most important European and American establishments. The drug collection contains some five thousand specimens for illustrative purposes contributed mainly by manufacturers, being especially noteworthy for its collection of drugs of Asiatic origin, particularly Malay and Ceylonese drugs and medicines. The herbarium, which has grown from the collection purchased from the estate of I. A. Lapham of Milwaukee as a nucleus, is now especially rich in Wisconsin flowering plants and fleshy fungi, and contains an almost complete collection of North American mosses.

The geological museum contains extensive systematic collections for exhibition and for use in instruction, including carefully planned general and special collections of minerals, rocks, ores, and fossils. The display exhibits are particularly ample in illustrating the origin and formation of rocks. The main body of specimens in the division of rocks consists largely of the Hobbs collection of European igneous rocks including over twenty-five thousand thin sections. The department under the laws of the state also receives the rock collections of the present State Geological Survey, and has in addition the use of nearly seventy thousand specimens and twenty thousand thin sections belonging to the United States Geological Survey, which were collected during studies of the Lake Superior region. A few only of the type fossils described by the former Geological Survey of Wisconsin escaped the fire which destroyed the collection of that organization in 1884, but the losses are being gradually replaced.

The museum of the State Historical Society, which though not administered by the University, is open to the use of its students for

purposes of study and research, makes a specialty of the archaeology and social history of the western Indians, and of the western pioneer life, especially in Wisconsin, and is notable for its collections illustrating the early history of the upper Mississippi valley.

The art museums belonging to the University or accessible to its students are not yet developed. The Art Museum of the Historical Society contains a number of modern pictures of merit, a collection of Piranesi's etchings of classical ruins, and a number of good prints and reproductions valuable for study. By the gifts of alumni and friends, and the loans of Professor Paul S. Reinsch, the University is in possession of a collection of almost two hundred valuable paintings as an art nucleus.

LIBRARIES

The libraries at Madison, all of which are at the service of members of the University, are six in number, viz., the Library of the University of Wisconsin, the Library of the Historical Society of Wisconsin, the Library of the Wisconsin Academy of Sciences, Arts, and Letters, the State Law Library, the Legislative Reference Library, and the Madison Free Library. These libraries duplicate books only to supply exceptional demands, and have an effective strength approximately equal to the whole number of volumes possessed by them. The total number of bound volumes in all the libraries is about 609,000 and the number of pamphlets exceeds 321,000.

The first three libraries above named are housed in the library building of the State Historical Society on the lower campus of the University. This building, erected by the state of Wisconsin, affords most convenient accommodations for students. In the planning of the building, the especial needs of the University were consulted.

In the south half of the first floor are located three department libraries of the Historical Society, viz., documents, newspaper files, and maps and manuscripts. In the north end of this floor is a series of six seminary rooms, allotted to American history, European history, economics, political science, mathematics, and Semitic languages. The greater part of the second or main floor is occupied by the general reading room and the periodical room, which are used in common by the two libraries. In these rooms two hundred and seventy-five readers may find accommodation at one time. In open cases in the reading rooms are shelved several thousand general reading, reference, and "reserved" books. To these, as well as to the large collection of general periodicals in the periodical room, all readers have direct access. The main portions of both libraries are stored in the stack wings adjoining the delivery room on the west. Officers of the University have direct access to the shelves in all parts of the library, and students engaged in advanced work, upon recommendation of their instructors, are allowed access to those parts of the collection dealing with their special subjects.

The administrative rooms of the Historical Society and of the University Library are situated at the south and north ends of the second floor respectively. The north end of the third floor is occupied by six seminary rooms for the subjects of philosophy and edu-

cation, Latin, Greek, and modern languages and English. The museum and gallery of the Historical Society occupy the fourth floor. The library is open fourteen and one-quarter hours daily, during the academic year, except on Sundays and legal holidays.

The Library of the University of Wisconsin, including its branches, contains about 276,000 volumes and 54,000 pamphlets. The catalogue is the usual dictionary card catalogue of authors, subjects, and titles in one alphabetical arrangement. Subject to certain restrictions, books may be drawn by all members of the University. Every matriculated student of the University for the regular year is required to make a library deposit of $1.00 as per statement on page 62. This deposit, less charges for fines and damages, is returnable to the student by the Bursar upon graduation or earlier withdrawal from the University.

The Law School has a special library of 30,000 volumes. The Washburn Observatory is provided with the Woodman Astronomical Library, now containing 2,600 books and 2,800 pamphlets. The agricultural library of about 18,500 volumes is located on the first floor of Agricultural Hall. The engineering library is located on the first floor of the Engineering Building.

The Library of the State Historical Society contains over 218,000 volumes and 227,000 pamphlets. While strong in all fields of American history and allied subjects, it is especially rich in manuscript and other material for the study of the history of the Mississippi valley. Its collections in English history are among the most extensive in this country.

The Library of the Wisconsin Academy of Sciences, Arts, and Letters, comprising about 5,000 volumes, is a valuable collection of reports and transactions of learned societies. It is located in the Library Building, and constitutes a useful supplement to the other libraries in this special field.

The State Law Library in the Capitol numbers about 65,000 volumes.

The Legislative Reference Library in the Capitol numbers 40,000 volumes, pamphlets, and collections of clippings. This library collects information on all subjects of legislation. The material is largely in the field of political science and political economy.

Students are allowed to draw books from the Madison Free Library, a well selected collection of over 45,000 volumes.

GENERAL INFORMATION

EXPENSES

Tuition, Fees, and Deposits[1]

No resident tuition is charged except in the Library School and the Wisconsin High School.

	Nonresident Tuition[2]	Incidental Fee
COLLEGE OF LETTERS AND SCIENCE, AGRICULTURE (Long and Middle Courses), and ENGINEERING; LAW, MEDICAL, and GRADUATE SCHOOLS; and SCHOOL OF MUSIC,[3] *per semester*	$62.00	$15.00*
Library deposit required of all students upon entrance, $1.00.		
COLLEGE OF AGRICULTURE		
Short Course, three terms, *per term*	17.22	3.00
Dairy Course (Winter), *per course*	41.33	6.50
(Summer) 5 wks. minimum, *per term*	3.45	6.00
SUMMER SESSION		
Graduate School; Colleges of Letters and Science, Engineering, Agriculture (6 weeks)		20.00
Law School (10 weeks)		32.00
Chemical Engineering (5 weeks)		17.00
Field Courses; geology (4 weeks)		12.00
railroad surveys (2 weeks)		8.00
topographical engineering and surveying (4 weeks)		12.00
Extra weeks beyond the regular session, *per week*		3.00
Auditors pay the same fees as regular students.		
LIBRARY SCHOOL, resident tuition, $25 *per semester*[4]	50.00	
WISCONSIN HIGH SCHOOL,[5] *per quarter*		
6th and 5th classes, resident tuition, $6.00	15.00	
4th, 3rd, 2nd, and 1st classes, tuition, $8.00	15.00	

* This includes an infirmary fee of $3.00.

[1] A fee is a charge none of which is returnable; a deposit is a charge part or all of which may be returnable.

[2] Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 70. Loans may also be made to needy students. See pp. 73ff.

[3] Members of other colleges of the University may take general courses in music without charge. Persons taking special courses pay special fees. See School of Music.

[4] Students who have paid fees in other departments before entering the Library School pay an additional fee to reach the above amounts.

[5] Four quarters of twelve weeks each constitute the complete year. At present (1919) the high school is in regular session but three quarters, but probably will have a six weeks' summer term.

Laboratory Charges

Charges are made in the various laboratories to cover the expenses of material consumed. Unless otherwise noted, charges are for one semester only. The present scale of charges (1919–20) follows. If the cost of materials increases, the charges for 1920–21 will be raised accordingly. A laboratory credit equals two hours per week of laboratory work.

COLLEGE OF LETTERS AND SCIENCE

	Fee	Deposit
Botany—Per 2 hours weekly in laboratory	$1.25	.....
Key and breakage deposit, per course	.....	$.50–1.00
Except 146	4.00	2.00
Except 147	.....	5.00
Research students	3.00	.....
Chemistry and **Pharmacy***		
Economics—Accounting—materials used.		
Geology—		
1, 2, 3, 4, each	1.00	.....
6, 7, 108, each	6.00	.....
8	2.00	.....
121	1.00	.....
133	1.50	.....
140	3.00	.....
Journalism—3 and 8 per credit	1.00	.....
Manual Arts—		
Shop laboratory courses, per credit	2.00	.....
51	1.50	.....
70, 71, add breakage deposit	.....	2.00
Physics—Per laboratory credit	3.00	.....
Psychology—		
103, 104, each	2.00	.....
105, $5.00 per year, per semester	3.00	.....
Zoology—		
1a, 1b, 102a, each	5.00	.50
3, 104b, 105, 116, each	4.00	.50
9, 21, 90, each	2.00	.50
119, each	3.50	.50
110, 123, each	3.00	.50
104a	7.00	.50
111	10.00	.50
228	5.00	.....
Thesis, $1.50 per laboratory credit.		

*The deposits for the various courses in chemistry and pharmacy will be announced at the opening of the year 1920–21.

COLLEGE OF AGRICULTURE

	Fee	Deposit
Per laboratory credit	$1.50	.....
Breakage deposit, per course	.....	$2.00
Short Course, per term	2.33	2.00
Dairy Course, winter, per course	10.00	2.00
Summer, per course	5.00	2.00

COLLEGE OF ENGINEERING

Assaying (Mining 121) per laboratory credit	5.00	.....
Other courses, per laboratory credit	3.00	.....
Laboratory theses, per course	7.50	.....

MEDICAL SCHOOL

Anatomy—		
115, 122, each	5.00	.....
110	10.00	.....
121, Dissection	15.00	2.50
126	8.00	2.00
Clinical Medicine—102–3–4, each	5.00	.....
Pathology, first semester	15.00	.....
Pathology, second semester	7.50	.....
Medical Bacteriology	16.00	.....
Pharmacology—102	4.00	1.00
105	15.00	2.50
Physiology 2	2.00	.....
3	3.00	.....
104	10.00	5.00
105	17.00	3.00
115	15.00	2.00
114	5.00	5.00
116	5.00	1.00

Other Charges

Extra fee for payment after registration days, see p. 65	$1.00
Men's gymnasium locker fee, including laundry, semester, see p. 66	1.25
Women's gymnasium costume, see p. 66	10.00
Women's gymnasium locker fee, including laundry, semester	1.25
Deposit with abstract of doctor's thesis	50.00
Binding baccalaureate or second degree thesis	1.00

For Extension Division charges, see special bulletins.

General Requirements

All charges must be paid at the beginning of each semester. Class cards will not be issued until this has been done.

Graduate students pay the same fees as undergraduate students in the College of Letters and Science, but honorary fellows and honorary scholars are exempt from the incidental fee.

Members of the teaching and research staff of the University, graduate fellows, graduate scholars, and members of the State Geological and Natural History Survey who are candidates for higher degrees, shall pay such fees as are prescribed for graduate students resident in Wisconsin. After any such candidate shall have paid to the University of Wisconsin in such fees a total sum equal to or greater than that usually paid in seven semesters of candidacy by graduate students resident in Wisconsin, he shall be exempt from payments of such fees in subsequent sessions of the University.

Graduate students who are not members of the university staff of instruction or research and who in any semester pursue studies in amount less than half the normal amount may have their fees prorated in proportion to the amount of such study upon the following conditions:

(a) The recommendation of the Dean of the Graduate School to the Registrar that the case comes under the above rule and that he regards it as one of more than common merit;

(b) The prorated fee shall not be less in amount than the regular incidental fee for the semester.

An additional fee of one dollar per semester must be paid by students who pay their fees after the prescribed registration days. (See Calendar.)

Partial Fees and Refunds

Students entering after half a semester or term has elapsed pay half the prescribed tuition and fees.

The Bursar, upon recommendation of the Registrar, is authorized to refund to students withdrawing from the University, the proportion of any semester's tuition and fees indicated by the following table:

From first class day	Deduct per cent	Refund per cent
Until 2 weeks	20	80
Between 2 and 4 weeks	40	60
" 4 and 6 weeks	60	40
" 6 and 8 weeks	80	20

No refund after eight weeks.

Students entering after regular registration days and withdrawing within eight weeks from the first class day, upon recommendation made, will be allowed refunds according to the above table based on the time actually in residence.

Summer session refunds will be on the same proportional basis as refunds for the regular year.

The full amount of fees paid shall be returned to students who for some reason fail of admission to the University.

No claim for remission of fees will be considered unless such claim be presented during the fiscal year to which the claim is applicable.

Fellows, scholars, and student assistants are required to pay laboratory fees; instructors and assistants are exempt from such fees.

Gymnasium Practice and Military Drill

Freshmen and sophomores in the Colleges of Letters and Science and Agriculture and the Four-year Course in Pharmacy are required to take gymnastic exercises and military drill. Engineering freshmen and sophomores take drill; engineering freshmen take gymnastics. A locker fee, including laundry, of $1.25 per semester is charged.

Women are required to take gymnastic exercise during the first two years of their course. A uniform gymnasium costume is required and should be purchased in the fall in Madison. The cost in 1919 was about $10. A locker fee, including laundry, of $1.25 per semester is charged.

Room and Board

At the present time the only rooming facilities provided by the University are in Chadbourne and Barnard Halls for women, accommodating 266 students (for details see below) and in a cooperative house accommodating 24 women. Residents of the cooperative house are usually chosen from applicants who have attended the University at least one semester. Applicants should correspond with the Dean of Women. All other students are dependent for rooms upon private rooming houses, the Y. M. C. A. building, and the various fraternity, sorority, and club houses. The prices of single rooms outside the university buildings range from $2.50 to $6.00 a week. A few double rooms can be secured for $2.00 a week per student, but the more desirable ones rent at $2.50 to $4.00 per student.

Dining rooms are maintained in Chadbourne and Barnard Halls and the University operates a public cafeteria in Lathrop Hall.

In private boarding houses and cafeterias board ranges from $6.50 to $8.50 a week.

The Dean of Men and the Dean of Women issue Rooming and Boarding House Directories, copies of which may be had on application. See p. 78.

Chadbourne and Barnard Halls

The two university women's dormitories, Chadbourne and Barnard Halls, are equipped with electric light and electric elevators. Heat is furnished from the central university heating plant.

Each room is provided with rug, dresser, rocker, three-quarter cot, study table, study chair, bookshelves and window shades. Occupants other than summer session students are expected to provide towels, sheets, pillow cases, blankets, and counterpanes or couch covers for the school year.

Women occupying these buildings are under the immediate charge of the Mistresses of the halls, and are expected to conform cheerfully to the requirements necessary for a family of students. Self-government is maintained.

In accordance with the act of the legislature of July, 1913, preference in the assignment of rooms in these halls is given to residents of the state of Wisconsin; of students outside the state, the children of alumni are given preference over others. Applications will be filled in regular order in accordance with this provision.

To give preference to members of the lower classes, the following apportionment is made:

Until September 1, the number of seniors, juniors, and sophomores to whom rooms in the halls are assigned is limited. Before September 1, no assignments are made to students not residing in Wisconsin. Beginning with September 1, any places available shall be assigned in the following order:

(a) To legal residents of Wisconsin in order of their application, without regard to the class to which they belong.
(b) To daughters of Wisconsin alumni outside the state.
(c) To others.

Seniors and juniors resident in the halls, if they conform to the regulations as to residence in the state given above, will receive preference over those who are nonresidents.

Applications will be received in excess of the number of accommodations, and vacancies during the year will be filled in regular order from this waiting list.

The price for the college year of a single room in either Chadbourne or Barnard Hall is $100; of a room accommodating two,

$75 per person; of two rooms in suite accommodating two, $100 per person. A few rooms in Barnard Hall (fifth floor) may be had for $75.

Residents of Chadbourne and Barnard Halls must take their meals in the hall in which they reside. In addition there are accommodations in the dining rooms for a number of other women students, Board has been tentatively fixed at $216 for the school year of 36 weeks,* payable in monthly installments in advance. Owing to uncertainty in prices this is subject to possible increase. The halls are closed and no charge is made for board during the Christmas recess. The halls are open during the spring recess but dining rooms are closed and no board is charged.

Applications for rooms will not be received until after April 1. These should be made to the Bursar of the University and the student must state the class into which she will enter. A deposit of $10 must accompany the application.

The deposit will be credited on the rent of the room; but if the room is not taken it will be forfeited unless notification is received by the Mistress prior to September 1. Applicants must withdraw before September 1 unless willing to acept any room available at the later assignment, or forfeit the deposit if the room is not taken. Applicants should accept the rooms assigned to them either in writing or in person before the opening day of the school year or they will forfeit the room.

The balance due for rent must be paid to the Bursar not later than 10 days after the issuance of bills at the beginning of each semester.

All applicants are supposed to retain their rooms for the entire year. If it is necessary for a student to withdraw at the end of the first semester, the deposit fee will be refunded provided the room has been filled by the Mistress of the Hall from the waiting list.

If for any reason one of the occupants of a suite shall be obliged to give up her place in the suite, the remaining person may be required to take a single room if one is vacant, or to pay the price of the full suite during the time it is occupied by her alone.

Rooms are ready for occupancy the Saturday before the first registration day.

Average School Year Expenses

It is difficult to give definite figures regarding expenses for the school year but the average is probably not less than $550. This would not include nonresident tuition or any laboratory charges.

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* This includes the time from the beginning of classes in September to the last day of examinations in June, exclusive of the Christmas and spring recesses

The school year budget of an average student might include a combination of the following items:

Incidental Fee, year	$30.00 to	$30.00
Locker Fee, freshmen and sophomores	2.50 "	2.50
Women's gymnasium suit	8.00 "	10.00
Books and stationery	25.00 "	50.00
Room Rent	75.00 "	200.00
Board	200.00 "	260.00
Laundry	30.00 "	50.00
Incidental Expenses	50.00 "	150.00
*Nonresident Tuition	124.00 "	124.00

Laboratory charges, depending on courses, see pp. 63-64.

These figures estimate the cost to the *average* student; many students spend more or less. The Student Employment Bureau advises students earning their own way to come with at least $200 capital. (See also Self-Support, below.)

Engineering students must be prepared to meet an expenditure of about $70 for laboratory fees, drawing instruments, and textbooks, at the beginning of the freshman year. For the second semester these expenses will be reduced to about $25. For subsequent years the fees for textbooks will be from $15 to $20 per semester.

Law students should provide themselves with the textbooks and books of selected cases designated in the program of instruction. The books required for the first year will cost about $35 and for the last two years, about $65.

Short Course and Dairy students' expenses will be from $125 to $150 for the course, including room, board, laundry and books.

Summer Session budget items (6 weeks basis):

†Incidental Fee	$20.00 to	$20.00
Room Rent	10.00 "	25.00
Board	27.00 "	35.00
Books and Stationery	5.00 "	10.00
Incidental Expenses	5.00 "	40.00
Laboratory Charges (depending on courses)	.....	15.00

SELF-SUPPORT

Students who desire to attend the University on a *partially* self-supporting basis will find this possible. The University maintains a Student Employment Bureau under the direction of the

* Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 70.

† Summer session fees are not remitted, either to residents or nonresidents, but students who withdraw before the close of the session are entitled to a refund, see p. 66.

Alumni Association at the Alumni Headquarters, 821 State Street, Madison. Students who find it necessary to earn part of their expenses while at the University should communicate with the Bureau as soon as possible. Application blanks and detailed information about student employment in Madison will be sent upon request. The Bureau is principally called upon to furnish stenographers, typists, clerks, waiters, dishwashers, janitors, and choremen. Owing to the numerous requests for places, the Bureau cannot promise positions to students in advance.

Women students who wish to secure work such as waiting on table, the care of children, light housework, sewing, mending, etc., are requested to communicate with the office of the Dean of Women, Lathrop Hall, Madison; those who desire positions as stenographers, typists, or clerks should register with the Student Employment Bureau.

There are also a number of undergraduate scholarships and loan funds (see below). While every possible assistance is rendered self-supporting students they are advised not to enter the University without some available funds. It is also recommended that they plan to take more than the regularly specified time for the completion of a course.

UNDERGRADUATE SCHOLARSHIPS AND LOAN FUNDS

Wisconsin Legislative Scholarships*

Section 36.16 of the Wisconsin Statutes provides that:

"Any student who shall have been a resident of the state for one year next preceding his first admission to the University, or any student whose parents have been bona fide residents of this state for one year next preceding the beginning of any semester for which such student enters the university, shall be entitled to exemption from fees for tuition, but not from incidental fees in the University. Any student who shall not have been a resident of the state for one year next preceding his first admission to the University, except as above provided, shall not be exempt from the payment of the tuition fees until he shall have attended the University for four academic years; but if he shall have attended the University for one academic year and the next three years shall have been spent as a resident of this state; or if he shall have attended the University for two academic years and the next two years shall have been spent as a resident of this state; or if he shall have attended the University for three academic years and the next year shall have been spent as a resident of this state, he shall be entitled to exemption from payment of the tuition fees upon reentering the University. * * * The regents of the University may remit either in whole or in part tuition, but not incidental fees, to a number of needy and worthy nonresident

* These scholarships are available for graduates as well as undergraduates.

students, not exceeding 8 per cent of the number of nonresident students registered in the preceding year, upon the basis of merit, to be shown by suitable tests, examinations or scholastic records and continued high standards of scholastic attainment."

Wisconsin Scholarships

The Board of Regents has appropriated the sum of $5,000 for undergraduate scholarships to be known as the Wisconsin Scholarships, consisting of 50 scholarships of $100 each.

Applicants for the Wisconsin Scholarships must be first year students who can register as residents of Wisconsin; who are in need of financial assistance and who have shown worth and ability. The awarding of these scholarships is entrusted to the regular faculty committee on scholarships to whom application should be made.

Amelia E. H. Doyon Scholarships

The will of Mrs. Amelia E. H. Doyon, late of Madison, provided for a gift to the University of $5,000 to be known as the Amelia E. H. Doyon Student Aid Fund. The income from this fund is divided into two equal parts, designated as the Amelia E. H. Doyon Scholarships, which are to be given to young women in attendance at the University, to be selected by the Faculty. In making this selection the scholarship or standing of the persons selected and their need of financial help are both taken into consideration. Neither scholarship is to be bestowed on any young woman who has not been in attendance as a student at the University of Wisconsin for at least one year.*

Fannie P. Lewis Scholarship Fund

By the will of the late Fannie P. Lewis, of Watertown, Wisconsin, $10,000 was left to be held in trust by the University Regents. The annual income from this money is to be divided equally between two women students of the University who shall be selected by the Regents, on the recommendation of the Faculty. In making these recommendations both scholarship and need of financial assistance are to be considered.*

Christian R. Stein Student Aid Fund

By the will of the late Christian R. Stein, of Madison, a bequest of $1,000 was made to the University, the interest of which maintains

* For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

a scholarship to be given by the Faculty to a student of the University who has been in attendance at least one year.*

Mortar Board Scholarship

Mortar Board, a society composed of senior women, maintains an annual scholarship of $100 which is awarded to a woman student, the award being made on the basis of scholarship and need of financial assistance.*

Gamma Phi Beta Scholarship

The Gamma Phi Beta sorority, in 1911, established an annual scholarship of $100 for women students, to be awarded on the basis of scholarship and need of financial assistance.*

Self Government Association Scholarship

The Self Government Association, in 1915, established a scholarship of $100 for women students, the award to be based on scholarship and need of financial assistance.*

Kappa Kappa Gamma Scholarship

An annual scholarship of $150 is provided by the Kappa Kappa Gamma sorority for the assistance of needy and meritorious women students.*

A. J. Horlick Scholarship

Since 1915 Regent A. J. Horlick has given a scholarship of $225 which is continued for the current year. This is awarded in the College of Agriculture for special research on some phase of inheritance of disease resistance in plants.**

South American Scholarships

The Regents have made available to South American students three scholarships of $150 each.***

Association of Collegiate Alumnae Scholarship

In May, 1917, the Madison branch of the Association of Collegiate Alumnae made available a scholarship of $100 for a university girl, preferably one who has finished her junior year.*

* For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.
** For information address College of Agriculture, The University of Wisconsin, Madison, Wisconsin.
*** Address Secretary, Board of Regents, The University of Wisconsin, Madison, Wisconsin.

Newport Chemical Company Scholarship $250

The Newport Chemical Company of Milwaukee offers a scholarship of $250.*

English Exchange Scholarship

A fellowship for a young woman of Great Britain was given in 1919–20, in memory of Miss Rose Sidgwick, member of the British Educational Mission to the United States in 1918, who died during the visit to this country. In accordance with the general recommendation made by the Committee planning for the exchange of women students of America and Britain, this scholarship gave tuition and residence in one of the university halls.

The Rhodes Scholarships

A scholarship is of the value of £300 a year, and is tenable for three years subject to the continued approval of the college at Oxford of which the scholar is a member. Two scholarships are assigned to each state. The election for the 1921 scholarship will be held in October, 1920. It has been decided that the qualifying examination hitherto required of all candidates shall no longer be held, and scholars will be selected on the basis of their collegiate or university record, supplemented, if necessary, by any further tests that the Committee of Selection may, in their discretion, impose. For detailed information address, Mr. Arthur B. Doe, Secretary, Wisconsin Committee of Selection for Rhodes Scholarships, 50 Sentinel Building, Milwaukee, Wisconsin.

Loan Funds and Student Aids

John A. Johnson Student Aid Fund

The University in indebted to the liberality of Hon. John A. Johnson, late of Madison, for a gift of $5,000 made in 1876, the interest of which is lent to students. The principal of this fund now amounts to about $16,000. The sum obtained by one student in one year shall not exceed $50, and the total amount shall not exceed $200.*

Alexander H. Rogers Loan Fund

Through the generosity of the sons of the late Alexander H. Rogers, of Chicago, the sum of $1,000 from the estate of Mr. Rogers has been turned over to the University to be used as a loan fund

* Address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

for the assistance of needy students. By the terms of the gift no one student may secure more than $250 from this fund.*

Graduating Class Loan Fund

The class of 1900 gave to the University several hundred dollars, the profit of the Senior Class Play, as the nucleus of a loan fund for the aid of needy students, to which several succeeding classes have made substantial additions.*

Secretary's Loan Fund

The Secretary of the Regents in 1900 established a fund of $500 for the aid of meritorious students. Additions to the fund have been made by others. No loans shall exceed $50 in a single year, and the aggregate loans to any person shall not exceed $200.**

Emery Loan Fund

In 1900 a fund was started by Miss Annie Crosby Emery, formerly Dean of Women, which is lent to needy women students on recommendation of the Committee on Loans.*

College of Engineering Loan Fund

The College of Engineering Loan Fund was started in 1901 by members of the faculty of the College of Engineering. It has been added to at various times until it now amounts to about $800. It is used for the assistance of needy students in the College of Engineering.†

Self Government Association Loan Fund

The Self Government Association has established a loan fund for the assistance of women students in need of financial assistance. This fund now amounts to about $600.*

Chicago Association of Wisconsin Alumnae Loan Fund

In 1913 the Chicago Association of Wisconsin Alumnae donated a fund for loans to needy women students. Preference is given to juniors and seniors and no student may secure more than $50 from the fund.*

Agricultural College Loan Fund

In 1911 Albert B. Kuppenheimer, of Chicago, gave $750 to establish a loan fund in the College of Agriculture. In 1916 the

* For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin.

** For information address Secretary, Board of Regents, The University of Wisconsin, Madison, Wisconsin

† For information address Dean, College of Engineering, The University of Wisconsin, Madison, Wisconsin.

outstanding balance of the Geneva Loan Fund was consolidated with the Kuppenheimer fund, making a total of $1500. This is loaned to needy students in small amounts with interest at 6 per cent, after maturity,**

Class of 1914 Loan Fund

The Class of 1914 established a loan fund, each senior paying $2 a year for five years. The fund now amounts to approximately $1,000.

Class of 1885 Loan Fund

In March, 1916, the class of 1885 established a loan fund, the initial remittance amounting to $58; the money to be loaned to needy students.*

University League Loan Fund

In March, 1916, the League of University Women established a loan fund, the initial remittance amounting to $50; the money to be loaned to needy students.*

Class of 1916 Memorial Loan Fund

The class of 1916 established a loan fund now amounting to approximately $900. Principal and interest are to be loaned to students for periods of not to exceed one year; not more than $50 to one person. Three per cent interest is to be charged, with six per cent after maturity. No distinction is made between colleges or classes.*

Kuppenheimer Loan Fund

Mr. Albert B. Kuppenheimer, of Chicago, donated $1,000 in December, 1916, to establish a loan fund open to all students under the following conditions:

1. Loans not to exceed one year;
2. Joint signatures of responsible parties required;
3. Interest, only after maturity, 6 per cent;
4. Administration to be in the hands of the general university loan committee.*

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* For information address Chairman, Committee on Loans and Scholarships, The University of Wisconsin, Madison, Wisconsin

** For information address Assistant Dean, College of Agriculture, Madison, Wisconsin.

Archibald W. Case Loan Fund

In 1916, J. F. Case established the Archibald W. Case Loan Fund for engineering students in memory of his son. The fund now amounts to $1,500 and will be increased to $5,000 by the addition of $500 annually.**

PRIZES

Lewis Prize

In 1865 Governor James T. Lewis gave $100 and in 1866 another $100 to constitute a fund the income of which was to purchase an annual scholarship medal. In 1873, with the consent of the donor, it was decided to use the income as a prize for the best undergraduate essay. In 1905, the fund having grown to over $300, the Regents in recognition of this having been the first permanent endowment given to the University established the "Lewis Prize" consisting of $25 annually, any deficiency in the income of the fund, which now amounts to about $600 is to be paid from the general account of the University. The prize is awarded to that member of the freshman class taking full work and regularly enrolled in a freshman course in English who shall write the best theme, under conditions determined by a committee of the instructors in English 1 and English 12.

In 1918–19 the prize was awarded to Charles L. Weis, Jr., *A Mere Freshman Thinks About Music.*

Bryan Prize Fund

In 1899 William Jennings Bryan presented $250 to the University, the income to be used as a prize for the best essay on *The Science of Government.* The fund now amounts to $400 and is accumulating until such time as the income shall reach $25.

William F. Vilas Medal and Prize Fund

In 1910-11 and again in 1911-12, Anna M. Vilas gave $125 for medals for intercollegiate debating and oratory. In June, 1912, to make this annual gift permanent, she turned over $4,000 to the Central Wisconsin Trust Company of Madison, the annual income to be used as follows:

First: $125 for seven medals in oratory, to be known as the William F. Vilas Medals for Oratory. The Department of Public Speaking has charge of the administration of these prizes.

** Address Dean, College of Engineering, The University of Wisconsin, Madison, Wisconsin.

Second: Two cash prizes for essays—one of $50 and one of $25, to be known as the William F. Vilas Prizes for Essays. The English Department posts annually the conditions of con petition on various bulletin boards.

In 1918–19 a medal was awarded to Fletcher G. Cohn.

The prizes for essays were awarded: 1st prize to Elsie Gluck, *Undergraduate Enthusiasms;* 2nd prize to James W. Gilman, *Undergraduate Unenthusiasms.*

Prize of the Wisconsin Menorah Society

In December, 1911, Julius Rosenwald offered the University $100 annually, to be known as the prize of the Wisconsin Menorah Society, and to be awarded for an original undergraduate essay on a topic relating to the literature, history, or achievements of the Jewish people.

The award of this prize is in the hands of a faculty committee, who judge not merely on substance but also on literary form. If no competing essay is deemed worthy of the prize, no award is made. Essays are limited to ten thousand words. They are to be typewritten according to the rules for theses. The title page is to bear an assumed name, the real name of the writer being enclosed in a sealed envelope marked on the outside with the assumed name and handed in with the essay. All essays must be in the hands of the committee by May 1.

No award was made for 1918–19.

HONORS

Special honors will be awarded at graduation to such students as have prepared theses of exceptional excellence, to which they have devoted an amount of time above that required for graduation at least equivalent to two hours per week for one year. For medals awarded for exceptional theses, see page 83.

Sophomore and senior honors are awarded in the College of Letters and Science. See page 119.

GRADE POINT SYSTEM

Under the grade point system, as many points are required for graduation as credits. For grade *excellent*, three points are awarded for each credit; for grade *good*, two points; for grade *fair*, one point; for grades of *poor*, no points.

The maximum number of points that can be secured by a student graduating in a course which requires, for example, 120 credits is 360; the minimum, 120. It is evident that an average grade of fair is necessary for graduation. Students who, by reason of grades of *poor*, fall behind in the required number of points, are ineligible for graduation. By use of points students may readily determine the quality of progress they are making in their course. For special grade-point regulations of the College of Letters and Science, see page 119.

AUDITORS

Students may enter classes as auditors subject to the approval of the adviser and of the instructor whose class is visited. Auditors are under no obligation of regular attendance, preparation, recitation or examination, and receive no credit toward graduation. They are required to register, to pay the regular fees, and to have class cards for the courses they elect to attend.

SUPERVISION OF STUDENT LIFE

A booklet of "Regulations for the Guidance of Undergraduate Students" is published and distributed annually, containing specific instructions concerning registration, fees, advisers, election of studies requirements, the grading systems, the regulations concerning social life, public exhibitions, eligibility for student activities, admission into fraternities, and information concerning student self-government. The Dean of Men publishes a directory of lodging and rooming houses for men students, with detailed information. The Y. M. C. A. publishes a booklet of useful local information on many matters of interest to students. Any of these books will be sent upon request.

The Faculty Committee on Student Life and Interests has general supervision over all organized student activities, and its chairman, the Dean of Men, is available for correspondence and consultation regarding student affairs at all times. He will also gladly confer with parents or guardians regarding individual students (men).

The academic and social welfare of women students is under direct supervision of the Dean of Women. For the benefit of those women who are not accommodated in Chadbourne and Barnard Halls (see p. 67), she has prepared a directory of rooming and boarding houses. All houses listed have been inspected by her, and though responsibility for them cannot be assumed by the

University, they are believed to be suitable homes for women students. A copy will be sent on application.

Women students are expected to occupy rooms only in such lodging houses as accommodate women exclusively, and in which a parlor is provided for the reception of visitors. Exceptions are made only by permission of the Dean of Women. The houses on the prepared list meet these requirements. All arrangements must be made directly with the persons mentioned in the list, and should be made early by those who desire a wide choice of rooms. All women students are required to report to the Dean of Women to register their addresses, and to be directed, if rooms have not been secured. All changes of address should be reported promptly.

Lathrop Hall, a commodious building for the use of the women of the University, provides, in addition to a finely equipped gymnasium, restaurant and rest room, a meeting place for student organizations, and a center for the social life of the University.

Miss Louise Nardin, the Dean of Women, and her staff of assistants invite correspondence with parents and guardians, and gladly cooperate with them regarding the welfare of students.

The legislative organs of student self-government are the men's Student Senate, and the women's Self Government Association; the judicial bodies are the Student Court, and the Women's Judiciary Committee.

The Student Senate of 17 members, by charter, is the general representative and legislative body of the male students. It has general supervision over all men's activities. By joint committee the Senate and the Women's Self Government Association have charge of all matters in which the interests of both men and women are involved, except as these matters affect scholastic interests or intercollegiate relations; these latter interests are under the control of the Committee on Student Life and interests.

Every woman student in the University is *ipso facto* a member of the Self Government Association. The object of the association is in its own words: "To regulate all matters pertaining to the student life of its members which do not fall under the jurisdiction of the Faculty; to further in every way the spirit of unity among the women of the University; to increase their sense of responsibility toward each other, and to be a medium by which the social standards of the University can be made and kept high." Each hall of residence, each sorority house, each lodging house where more than ten girls reside, and each section of Madison where girls are living at home, has a representative on the board. The association each

year provides entertainment of various sorts for university women, adds a small sum to the loan fund for girls, and undertakes, under direction of an assistant in the office of the Dean of Women, a vocational conference for the purpose of presenting to the women students occupations other than teaching. A bulletin of information for women is also published.

The Student Court, the outgrowth of a pledge to abolish hazing given in October, 1909, by the former Student Conference and the student body, operates under a charter granted by the Faculty and approved by the Board of Regents. The chief duties and powers of the Court as stated in the charter are: "To maintain good order throughout the male student body, and to enforce university regulations within its jurisdiction."

The Women's Judiciary Committee of the Self Government Association has powers and duties, where women students are concerned, identical with those of the Student Court.

Student Advisers

Upon entering the College of Letters and Science, the College of Engineering, or the College of Agriculture, each student is assigned to a member of the Faculty who acts as his adviser. Each semester the student is required to consult his adviser concerning the choice of studies, and the adviser must give his approval before the student is permitted to enter classes. It is the duty of the adviser to guide the students under his care in all matters concerning their university courses; to see that all rules relating to required or elective studies, promotion, and graduation are strictly complied with; and, in general to aid students in obtaining the greatest individual profit from their university courses. There are no student advisers in the Law School.

Professor C. D. Cool acts as special adviser for foreign students.

Student Health

The Department of Clinical Medicine has general supervision of the health of the students. It aims to determine the medical fitness of each student entering the University, to study the intricate problems of the relation of health to higher education, and to prevent disease among the students by attempting to correct proved errors in present educational practices and in the life of the individual.

Medical Examinations.—Students entering the University for the first time undergo a careful medical examination to determine their fitness for university work. An appointment for medical examination is made at the time of registration. This appointment must be met promptly. Records of the results of these examinations are kept in the office of the Department of Clinical Medicine for future reference in the supervision of the mental and physical development of the student. Recommendations are made to the deans relative to the general health, and in the case of those required to take physical education, to the Department of Physical Education relative to the physical condition of the student.

In addition to this routine medical examination, which includes an examination of the heart, lungs, and other vital organs, together with tests for vision and hearing, those entering the freshman and sophomore classes are given physical efficiency tests by the Department of Physical Education.

The Medical Adviser's Office is established for the general supervision of students needing medical attention. It is earnestly desired that all cases of student illness be promptly reported to this office whether professional service is desired or not. At the same time students should feel free to seek advice concerning the care of their health. A careful examination is made of the physical condition and the functional activity of those who consult the members of the staff, and where it seems advisable, the family physician is notified for future advice and consultation.

Conditions affecting the general welfare of the university community are treated by the members of the staff, but students requiring special care—major surgery, treatment of the eye, ear, etc., are referred to specialists.

A modern and completely equipped infirmary is maintained by the University for the care of students requiring medical and surgical treatment and for the isolation of those suffering from communicable diseases. Cases requiring special methods of study and treatment are cared for by the University Medical Staff in the Mary Cornelia Bradley Memorial Hospital.

SOCIETIES AND PUBLICATIONS

Literary, Forensic, Dramatic, and Musical Societies

The men's literary societies are: Athena, organized in 1850; Hesperia, organized in 1854; Philomathia, organized in 1866; and the Agricultural Literary Society.

These societies are interested principally in debating; the first three maintain a Joint Debate League, which arranges an annual public debate between two of the three societies. This Joint Debate has been a feature of the University for nearly fifty years, and interest in it has kept alive men's debating societies long after such organizations have passed away in most universities.

The women have two literary societies: Castalia, organized in the early years of the University, and Pythia, organized in 1902. Most of their time is devoted to more general literary pursuits and less exclusively to debating.

The University is a member of the Midwest Debating League, composed of the Universities of Michigan, Illinois and Wisconsin. Each university meets the others in debate annually. From time to time, additional intercollegiate debates, chiefly with neighboring state universities, are arranged. Wisconsin regularly competes in the annual contest of the Northern Oratorical League composed of the Universities of Chicago, Iowa, Michigan, Minnesota, Northwestern, and Wisconsin and Oberlin College. In recent years, a Wisconsin representative has been entered in the Hamilton Club Oratorical Contest at Chicago, where representatives of other large universities of the middle west are met.

Positions on university debating teams and the privilege of representing the University in intercollegiate oratorical contests are won in open competition, any undergraduate in good standing being eligible.

Of the four dramatic clubs of the University, the Haresfoot Club and the Edwin Booth Dramatic Club, both men's organizations, present annually an original musical comedy and at least one legitimate drama, respectively. The Red Domino Club and the Twelfth Night Club, the women's organizations, besides giving annual public performances of both original and standard plays, practice privately through the year.

The university musical organizations are the Choral Union, the University Regimental Band, the University Orchestra, the Men's Glee Club and Mandolin Club, and the Girls' Glee Club.

Research, Professional, and Honorary Societies

The Historical and Political Science Association, and the Language and Literature Club, including both faculty members and advanced students, have been organized to promote scientific study and research in their respective fields. Each organization awards a gold medal annually for the best baccalaureate thesis in its field.

Journal clubs or societies for the furthering of the special work of the departments exist in various departments of the University. Among these are the *Nora Samlag*; the Romance Language Club; the Pharmaceutical Society; the Classical Club; the Physics Journal Club; the Biological Club; and the Chemical Club. In other departments, where no such organization has been effected, like results are reached by means of the various seminaries. In the technical colleges and courses similar societies are maintained: The Civil Engineering Society, the Electrical Engineering Society, the American Society of Mechanical Engineers, the U. W. Mining Club, the U. W. Engineers' Club, the U. W. Chemical Engineering Society, the Commercial Club, the University Press Club, the Scoops and Cubs Clubs, Agri-ink, the Geology Club, the Grafters' Club, the Advertising Club, the Country Life Club, the Euthenics Club, and the Live Stock Club. The graduate students of the University maintain a Graduate Club.

The honorary fraternities are Phi Beta Kappa, established in 1898; Tau Beta Pi, honorary engineering fraternity, established in 1899; Alpha Zeta, agriculture, 1906; Phi Lambda Upsilon, chemistry, 1906; Sigma Xi, science, 1907; Eta Kappa Nu, electrical engineering, 1910; Sigma Delta Chi, men's journalism, 1911; Theta Sigma Phi, women's journalism, 1910; Beta Gamma Sigma, commerce; Delta Sigma Rho, intercollegiate oratory and debate; Sigma Sigma, medicine; Artus, economics; Pi Tau Sigma, mechanical engineering; Omicron Nu, home economics; Chi Gamma Pi, civil engineering; and Scabbard and Blade, military science.

Social and Religious Organizations

The social life of the undergraduate finds expression in more than one hundred fraternities, societies, clubs, and class organizations. The Wisconsin Union, one of the most important of the men's organizations, consists of every male student in the University. No dues or fees are charged. The Union is active in promoting the

social welfare of the student body, and has charge of the annual Union Vodvil, the quadrennial University Exposition and numerous smaller social gatherings.

The most important religious organizations of the University are the Young Men's Christian Association and the Young Women's Christian Association. The Y. W. C. A. maintains one and the Y. M. C. A., four secretaries who devote their entire time to religious, social, and philanthropic work among the students. Seven student pastors supported by as many religious denominations, each with its own student organization, cooperate with the secretaries and promote Christian work in the student body in a very systematic way.

Publications of the University

The University of Wisconsin Studies are published bimonthly at Madison, and contain original papers by persons connected with the University. More detailed information regarding these and other publications may be obtained on application to the Librarian.

The General series of the Bulletin of the University of Wisconsin includes the annual catalogue, special announcements of the various schools and colleges, etc. A directory of officers and students is issued early in each academic year, and a general catalogue of officers and graduates is published once in five years if funds are available, the last having been issued in 1912. Apply to the Registrar for copies of these publications.

The High School series comprises a number of manuals designed to assist secondary school teachers in the subjects of the high school curriculum. Refer to the Secretary, Committee on High School Relations.

From the Washburn Observatory are issued the Publications of Washburn Observatory; from the Agricultural Experiment Station, bulletins and annual reports; and from the office of the Farmers' Institute, the Wisconsin Farmers' Institute Bulletin.

Student and Alumni Publications

Student publications include the Daily Cardinal; the Wisconsin Literary Magazine, the Octopus, the Wisconsin Engineer, the Wisconsin Country Magazine, and Commerce, all published monthly; and the Badger, the junior class annual. The Alumni Association publishes the Wisconsin Alumni Magazine.

ADMISSION

METHODS

Undergraduate students are admitted:

1. Upon examination at the University. (See p. 97.)
2. Upon certificate. (See pp. 97ff.)
3. Upon evidence of their standing in other institutions of higher learning. (See pp 99ff.)
4. As adult special students. (See p. 102.)

Students may enter at the opening of either semester or at the beginning of the summer session. There are advantages in beginning work at the latter time. The student becomes acquainted with university methods of instruction, and his experience and the advice of his instructors will help him in planning his work for the regular session. For courses offered, see Summer Session.

Credentials should if possible be filed with the Registrar before August first. It is obligatory on entrance to submit records from *all* schools previously attended.

Entrants are advised to present themselves several days in advance, in order to make all necessary arrangements. An additional fee is required for late registration. (See p. 65.)

ENTRANCE REQUIREMENTS

Entrance requirements are stated in terms of units.[1] A *unit* equals five recitations a week for one year of at least 36 weeks in one branch of study. Two laboratory periods in any science or vocational study are considered equivalent to one class exercise. In closely allied branches not usually taught in periods of one year each, such as botany and zoology, units may be constructed by adding the respective time values of such studies. Three recitations a week for a year and a half may be counted as one unit.

Fifteen units are required for admission. Not more than four are accepted in any one subject. Entrants offering only one foreign language must have at least two units. They must have two units in one

[1] A "unit" is not to be confused with a "credit," the University measurement of work (See definition of credit on p. 107).

foreign language before one unit in another language may be credited. But in exceptional cases one unit in a single foreign language may be offered as an "optional subject."

I. The following units are required of all:

English.....3 or 2 units
(At least three units of English are recommended for all and will be required of students who do not offer two units of one foreign language.)

Mathematics
*Algebra.....1 unit
Geometry.....1 unit

II. Two units must be presented from *one* of the following:

One foreign language.....2 units
(French, German, Greek, Hebrew, Italian, Latin, Norse, or Spanish)

or Science.....2 units

or History.....2 units

III. In addition to the units required under I and II, a sufficient number of units to make a total of fifteen must be offered from Groups A and B, except that not more than four units may be offered from Group B.

GROUP A

English	1–2	**Mathematics**	
Foreign Language		Adv. Algebra	½
French	1–4	Solid Geometry	½
German	1–4	Trigonometry	½
Greek	1–3		
Hebrew	1–2		
Italian	1–2	**Science**	
Latin	1–4	Botany	½–1
Norse	1–2	Biology	1
Spanish	1–4	Chemistry	1
		General Science	½–1
History and Civics		Geography	½–1
History	1–4	Physics	1
Civics	½–1	Physiology	½
Economics	½	Zoology	½–1

GROUP B

Agriculture	1–4	Domestic Art	1–2
Bookkeeping	1	Drawing, Art and Design	1–4
Commercial Law	½	Mechanical Drawing	1–4
Commercial Arithmetic	½	Shop Work	1–2
Commercial Geography	½	Shop Work and Drawing	1–4
Shorthand	1–1½	Music	1
Typewriting	½	Optional	½–1
Domestic Science	1–2		

* College of Engineering, 1½ units.

Advised Grouping of Preparatory Subjects

Students are advised to adapt their preparatory work to the course they expect to pursue in the University. Attention is called to the admission requirements of the various colleges and courses, and to the statements of the several departments covering the preparation best adapted to the work of each. Students expecting to go to the University, who are uncertain as to the college in which they will take their work, are advised to distribute 12 of the 16 units of the high school course as follows:

English, at least.....3 units
Mathematics, at least.....2 units
Science, at least.....2 units
Foreign Language.....2, 3 or 4 units
History, at least.....2 units

If less than four foreign language units are offered, units of English, history, science, or mathematics should replace them.

Entrance Requirements of the Several Colleges, Schools and Courses

COLLEGE OF LETTERS AND SCIENCE.

Four units* under I, two units under II, and nine units under III, will admit to the following:**

1. *Bachelor of Arts courses* (General Course, Course in Commerce and Course in Journalism). Foreign language graduation requirements are stated on p. 110.

2. *Bachelor of Science courses* (Course in Chemistry, Medical Science Course, and Four-year Course in Pharmacy). See index for Foreign language graduation requirements.

   Medical Science Course—Students are advised to present Latin and a second foreign language (Greek, French, or German) to the amount of at least six units.

   Four-year Course in Pharmacy—Two units of foreign language should be offered for entrance.

3. *Course leading to the degree of Ph. B.* (*General Course*). No foreign language required.

* Five units if no foreign language is offered.

** Since foreign language requirements for graduation for the several degrees may be satisfied in part by foreign language offered for entrance, references are made to the complete statements of those requirements. See also p. 94.

4. *Course leading to the degree of Ph. B.* (*Course for Normal School Graduates*). Requires graduation from a state normal school. (See further p. 115.)
5. *Course leading to the degree of Bachelor of Music.* Same as B. A. courses above. (See Index).
6. *Two-year Course for Supervisor of Music Certificate.* No foreign language required. (See Index.)
7. *Two-year Course in Pharmacy.* See B. S. courses above.

See also Library School p. 229.

COLLEGE OF AGRICULTURE.

Four units* under I, two units under II, and nine units under III, will admit to the following:

1. *Bachelor of Science Courses* (Long Course, Course in Home Economics, and Four-year Vocational Course for the training of teachers in Home Economics.) See index for Foreign language requirements.
2. *Graduate in Agriculture* (Middle Course). No foreign language required.
3. *Graduate in Home Economics* (Two-Year Course for Training Vocational Teachers in Home Making.) No foreign language required.

Short Course. Students must be at least 16 years of age and have a good common school education. No entrance examinations are required.

Dairy Course—(Winter). Same as for Short Course except candidates must have had at least 6 months' experience in a creamery or cheese factory before entering. (Summer and Special.) No previous experience required.

Farmers' and Women's Weeks. No examinations are required. Candidates for the Farmers' Course must be at least 25 years of age.

COLLEGE OF ENGINEERING.

English.....3 or 2 units
(Three units of English will be required of all students who do not offer two units of one foreign language.)
Algebra.....1½ units

* Five units if no foreign language is offered.

Plane Geometry	1	unit
Foreign Language, Science, or History	2	units

and additional units to total 15 from III.

Students deficient in advanced algebra who meet the entrance requirements for the College of Letters and Science will be admitted to the College of Engineering, but must make up the deficiency during the first semester, special classes being provided.

Advised Preparation for Engineering Courses

Students planning to enter the College of Engineering are advised to take the following high school work as a part of the sixteen units required for entrance.

English, at least	3	units
Algebra	1½	units
Plane Geometry	1	unit
Solid Geometry	½	unit
Science	2	units
Foreign Language	2, 3 or 4	units
History	2	units

LAW SCHOOL. (1) Candidates for a degree: Credits equivalent to the first two years of the College of Letters and Science. (2) Not candidates for a degree: Four units* under I, two units under II, and nine units under III, provided entrants are at least 21 years of age. (See also Law School.)

LIBRARY SCHOOL. See p. 229.

MEDICAL SCHOOL. (1) Satisfaction of Letters and Science entrance requirements. At least two years of preparatory Latin are recommended. (2) Equivalent of two years' work in that college, which should include successful completion of: (a) laboratory courses of college grade in physics, chemistry and biology; and (b) courses in English, German, French, or Latin. Elementary Latin and a reading knowledge of French or German are required. (See also Medical School.)

Scope of the Preparatory Work

The following description serves to indicate the extent of the preparation expected in each of the several subjects named in the preceding requirements for admission:

* Five units if no foreign language is offered.

English

ENGLISH. 2, 3 or 4 units. Candidates for admission must present two units in English, one in composition, and one in the reading and study of English classics. These two units correspond to the work of the first two years of the standard high school course, in which half of the time is devoted to theme-writing and instruction in composition, and half to the detailed study of a number of English classics. At least three units in English are recommended, the third unit to consist of additional work in composition, and either (1) an outline history of English and American literature with the reading and study of selections of each period, or (2) the intensive study of a few typical examples of the novel, the drama, the lyric, and the essay. Four units of English should include composition, and both (1) and (2) given above, in addition to the two required units.

THE TWO UNITS REQUIRED OF ALL

Composition and Rhetoric. Practice in theme-writing with instruction in the principles of composition and the forms of discourse must form an important part of each unit of English presented for entrance. Every entrant is examined as to his ability to express himself in clear, correct, idiomatic English. The test consists in writing several essays on familiar subjects, in which the student plans his work by paragraphs, and constructs both paragraphs and sentences in accordance with the simpler principles of composition. No student will be passed in this test and permitted to pursue the course in Freshman English whose work shows serious weakness in spelling, punctuation, grammar, sentence construction, or division into paragraphs. Facility of expression will not be sufficient to offset marked deficiency in these respects. A more detailed statement of the requirements for admission to the Freshman English course is given in University Bulletin, High School Series, No. 13. Students deficient in English composition must make up such deficiency in one year or be dropped from the University. The University provides a course for such students. See English A, p. 152.

Reading and Study of English Classics. The two units required in English must include the thorough study of at least ten of the English classics on the list of uniform college entrance requirements in English, or their equivalents. The primary aim of the study of these selections should be the interpretation of the works as independent units; other considerations, such as form, biography, literary history, or critical comparisons though they should not be neglected should be kept subsidiary to this main object.

UNITS IN ADDITION TO THE TWO REQUIRED OF ALL

History of English and American Literature. 1 unit. In addition to the required units in English one unit in the history of English literature or in the history of English and American literature may be presented. The greater part of the time should be devoted to the reading of selections from representative authors of each period. In the study of the history of literature, which should occupy not more than one-quarter of the time, emphasis should be placed on general movements and tendencies as shown in the selections studied. In the history of English literature characteristic selections from most of the following authors should be read: Chaucer, Shakspere, Bacon, Milton, Pope, Addison, Goldsmith, Gray, Burns, Scott, Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Lamb, George Eliot, Dickens, and Thackeray. In American literature, selections from the following: Longfellow, Whittier, Bryant, Holmes, Irving, Hawthorne, Cooper, Poe, Lowell and Emerson. A study of the principles of composition and practice in theme-writing must be included in this unit.

Advanced Study of Classics. 1 unit. Besides the two units of required work, which include the reading and study of English classics, students may offer one unit representing advanced work in the study of literature. This should consist of an intensive study of typical examples of the novel, the drama, the lyric, and the oration or the essay. At least one work from each of the following four groups should be included: I. (a) Thackeray's *Henry Esmond;* (b) Hawthorne's *The House of Seven Gables;* (c) Dickens' *A Tale of Two Cities;* (d) George Eliot's *Silas Marner:* II. Shakspere's (a) *Macbeth,* (b) *Hamlet,* (c) *King Lear;* III. Palgrave's *Golden Treasury* (First Series), (a) Books ii and iii, or (b) Book iv; (c) Milton's *Lycidas, L'Allegro* and *Il Penseroso;* IV. (a) Burke's *Speech on Conciliation;* (b) Webster's *First Bunker Hill Oration,* and Washington's *Farewell Address;* (c) Macaulay's *Life of Johnson, Essay on Milton:* (d) Carlyle's *Essay on Burns.* A study of the principles of rhetoric, with frequent and systematic theme-writing, must form a part of this unit.

Mathematics

ALGEBRA. 1 or 1½ units. The one required unit should include: Addition, subtraction, multiplication, division, equations of the first degree with one unknown number, simultaneous equations of the first degree, factors, highest common factor, lowest common

multiple, quadratic equations, simultaneous equations above the first degree, elementary theory of indices and radicals.

An additional half year of algebra is strongly recommended for all students and is required of engineering students. The work should cover: Simultaneous quadratic equations; ratio, proportion and variation; graphical representation of simple relation between two variables; binomial theorem for positive integral exponents; logarithms, including use of tables in simple numerical work; arithmetical and geometrical progressions.

GEOMETRY. 1 unit, *combination course of a single year in plane and solid geometry:* About 180 propositions, of which 45 must be in solid and spherical geometry.

1 unit, *plane geometry.* A unit credit will be given for a more extensive and intensive course of a year in plane geometry.

½ unit, *solid geometry.* A half year of solid geometry following a year of plane geometry will be accredited ½ unit.

The College of Engineering requires for admission 1½ units of plane and solid geometry.

TRIGONOMETRY. ½ unit. The fundamental properties of the trigonometric functions, the addition theorem and the more important formulas which follow from it; the solution of the various cases of right and oblique plane triangles; the use of logarithmic and trigonometric tables.

Additional Credit. ½ to 1 unit for work in algebra, trigonometry, surveying, or other mathematics: total credit not to exceed 4 units.

History, Civics, and Economics

HISTORY. 1, 2, 3, or 4 units. History may be offered in the following "blocks:"

Ancient History, 1 unit.

Ancient and Medieval History, 1 unit.

European History to approximately the end of the 17th Century, 1 unit.

Medieval and Modern History, 1 unit.

Modern European History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

One, two, three or four blocks may be presented. A real equivalent may be presented in place of a block recommended above, but a one year's course in general history will not be accepted.

CIVICS. ½ or 1 unit. This may comprise the study of government in its relation to either the local community or the nations, or

both. It may be combined with history or economics in the construction of an elective unit.

ECONOMICS. ½ unit. A knowledge of the fundamental principles of economic science as presented in a good elementary treatise.

Science

BOTANY. 1 unit. A study of the life histories of types from the main groups of plants, with a series of simple physiological experiments. At least two-thirds of the course should consist of laboratory work. For further details see the report of the committee of the Wisconsin State Teachers' Association for 1902 on a high school course in botany.

If impossible to give a full year's work to the subject, botany may be combined with physical geography, physiology and zoology to construct units.

CHEMISTRY. 1 unit. A study of the more common elements and their compounds. This course should include about four or five actual hours of work a week in the laboratory, and two or three periods a week in the classroom throughout the year.

Two laboratory periods are considered as equivalent to one class exercise. A laboratory notebook must be kept.

PHYSICS. 1 unit. Not less than three classroom periods a week, and not less than four actual hours of work a week in the laboratory. A record of all work done should be kept in a notebook. Any standard textbook may be used.

PHYSICAL GEOGRAPHY. 1 unit. To include: (1) The principles as presented in the best recent textbooks, which give adequate treatment of the atmosphere and ocean, and emphasize the development and influence of topographic forms. (2) Field study adapted to the locality; every candidate must submit a statement of the field trips taken by him. (3) The interpretation and habitual use, in the laboratory, of topographic maps, weather maps, charts, and pictures.

If impossible to give a full year's work to the subject, physical geography, botany, physiology and zoology may be combined to construct units.

PHYSIOLOGY. ½ unit. Human anatomy, histology, and physiology, and the essentials of hygiene. The textbook work, equivalent to that given in Martin's *The Human Body, Briefer Course*, must be illustrated by charts and models, and supplemented by anatomical demonstrations and chemical experiments.

ZOOLOGY. 1 unit. Laboratory work (at least two-thirds of the course) including eight to ten types of animals, with careful descrip-

tions and drawings; a study of life histories, habits and relation to environment. Class exercises based on any standard textbook.

Languages

GREEK. 3 units. (1) Grammar and elementary book; (2) Xenophon's *Anabasis*, four books; Greek composition; (3) Homer's *Iliad*, six books or an equivalent amount of the *Odyssey*; Greek composition.

2 units. (1) and (2) above.

1 unit. (1) above.

LATIN. 4 units. (1) Grammar and elementary book; (2) Caesar, books I-IV; (3) *Cicero*, six orations (selections from the letters may be substituted for two orations); (4) *Virgil*, six books; composition, preferably in connection with *Caesar* and *Cicero*.

These requirements are planned with special reference to the needs of those candidates who propose to continue the study of ancient or modern languages or of history.

3 units. (1), (2) and either (3) or (4) above.

2 units. (1) and (2) above.

1 unit. (1) above.

Real equivalents will be accepted for any part of these requirements.

Latin 1 and 3 in the University cover substantially the work done in the high school. They may be credited towards the bachelor's degree and used to satisfy language requirements. No such credits will be given for high school Latin.

GERMAN. 1 unit. (1) Correct pronunciation; (2) grammar equivalent to Manfred's *Ein praktischer Anfang* (23 lessons), Spanhoofd's *Elementarbuch* (24 lessons), or Bacon's *New German Grammar* (50 lessons); (3) about 50 pages of easy prose; (4) ability to translate from German into English and vice versa, and to answer simple German questions in German.

2 units. (1) Fluent pronunciation; (2) elementary grammar completed; (3) about 75 of the more usual strong verbs; (4) 200 pages of reading, chiefly modern prose, but including simple poems and possibly a short play. (5) See (4) above.*

3 units. The work for 2 units, and (1) further grammar and syntax study; (2) at least 200 pages of prose and verse, partly as outside reading reported on for content only; (3) constant oral and written practice.*

4 units. The work for 3 units, and (1) at least 400 pages of standard literature in prose and verse partly as outside reading as above;

*See footnote on page 95.

(2) increasing attention to literary appreciation and biographical and historical background; (3) ability to understand ordinary modern German texts, to write simple topics relating to them and to converse on them in German; (4) to follow recitations conducted in German.*

FRENCH. 1 unit. (1) The elements of grammar as found in the first part of usual French grammars; (2) about 100 pages of simple French—emphasis on correct pronunciation.

2 units. The work for one unit, and (1) a review of the grammar covering all the most common irregular verbs; (2) 200 pages of simple French.

3 units. The work for 2 units, and (1) at least 400 pages of French chosen from nineteenth century classics; (2) considerable work in oral and written composition.

4 units. In addition to the work for 3 units, one year of high school work including: (1) at least 500 pages of classic and modern French literature; (2) ability to write a short French composition and to show understanding of a simple lecture in French by answering questions upon it in the same language.

For detailed information as to grammars, texts, etc., see *A Four-Year High School Course in French* which may be obtained on application to the Department of Romance Languages.

ITALIAN. 1 unit. (1) The elements of grammar; (2) 200 pages of easy Italian—emphasis on correct pronunciation.

2 units. (1) Correct pronunciation; (2) ability to translate freely simple Italian texts; (3) an accurate knowledge of the grammatical principles of the language, and of its regular verbs; (4) about 500 pages of text.

SPANISH. 1 unit. (1) The elements of grammar; (2) 100 pages of easy Spanish—emphasis on correct pronunciation.

2 units. (1) Correct pronunciation; (2) ability to translate freely simple Spanish texts; (3) an accurate knowledge of the grammatical principles of the language, and of its regular verbs; (4) about 300 pages of text.

The work in grammar should be approximately that found in any standard Spanish grammar. The student should be taught the Castilian pronunciation.

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* Approximately corresponding to the "elementary," "intermediate" and "advanced" courses as outlined in the *Report of the Committee of Twelve* (D. C. Heath & Co., Boston; price 16c). See also the *High School Course in German*, No. 2 of the High School Series of the Bulletin of the University of Wisconsin. (Secretary, Committee on Accredited Schools, University of Wisconsin, Madison, Wisconsin.)

3 units. The work for 2 units, and (1) at least 400 pages of Spanish chosen from nineteenth century authors; (2) considerable work in oral and written composition.

4 units. The work for 3 units, and one year of high school work including: (1) at least 400 pages of modern Spanish literature; (2) ability to write a Spanish composition and to show understanding of a simple lecture in Spanish by answering questions upon it in the same language.

For detailed information, see pamphlet issued by the Department of Romance Languages entitled *A Four Years' Course in Spanish.*

NORSE. 1 unit. (1) Grammar and exercises equivalent to Holvik's *Beginners' Book in Norse*, or Michelet's *First Year Norse;* (2) 100 pages of text of the grade of Björnson's *En Glad Gut.*

2 units. The work for one unit, and (1) a review of the grammar; (2) 200 pages of prose and verse, equivalent in grade to Holvik's *Second Book in Norse* and Ibsen's *Terje Viken.*

HEBREW. 1 unit. (1) Correct pronunciation and principles of Hebrew phonetics; (2) grammar, the equivalent of Harper's Elements of Hebrew as prescribed in Harper's *Introductory Hebrew Method and Manual*, first 25 lessons (through the regular verb); (3) reading of the first four chapters of Genesis or an equivalent amount of simple historical prose; (4) translation of simple English sentences into Hebrew.

2 units. (1) Beside the foregoing, the completion of the Elementary Hebrew Grammar covering the irregular verbs and nouns with suffixes (completion of Harper's *Method and Manual*); (2) the reading of about 50 pages of simple Hebrew prose; (3) ability to translate into Hebrew ordinary English prose, and to read at sight historical Hebrew like the narrative portions of Judges or Samuel, when new words are given.

Fine and Applied Arts

Owing to the present state of development of fine and applied arts, music and the vocational subjects in the high school curriculum, requirements in these subjects are not defined. The acceptance of work for admission will be based upon a special inspection; and the approval of courses will depend primarily upon adequate equipment and efficiency of instruction.

A tentative statement of acceptable units in these subjects is:

Agriculture. Plant Production, Agricultural Chemistry, and Soils, 1 or 2; Animal Husbandry, 1; Rural Economics, Farm Management and Farm Mechanics, 1 or 1½.

Commercial Work. Bookkeeping, 1; Stenography and Typewriting, 1 or 2; Commercial Arithmetic, ½; Commercial Law, ½; Commercial Geography, ½.

Drawing, Art and Design. 1—4 units. Art to include freehand drawing, light and shade, color rendering and perspective, 1 or 2; principles of design including applications in line, form and color, 1 or 2; crafts with correlated design, 1 or 1½.

Domestic Arts. Textiles and Clothing, 1 or 2.

Domestic Science. Food study, 1 or 2.

Manual Arts. Mechanical Drawing, 1—4; Shop Work, 1—2; Freehand Drawing and Design, 1—2; Mechanical Drawing and Shop, 1—4.

Music. Courses in music which the high schools credit toward graduation will be accepted after approval by the Committee on Accredited Schools, 1 unit.

ADMISSION UPON EXAMINATION

The University offers two admission examinations, one in June and one in September. For dates, see Calendar, p. 8. All candidates must be present at 9 o'clock on the first day of examination. No special examinations are given. Students who are in doubt as to their qualifications are urged to present themselves in June.

Candidates for admission may divide the subjects and take the examinations in two trials; but a failure to pass all the subjects in two trials will necessitate a complete re-examination. For the character of the entrance examinations, see pp. 89-97.

ADMISSION UPON CERTIFICATE

Graduates of accredited high schools* may enter the University without examination, on the presentation of a certificate showing the satisfactory completion of the fifteen required units, *and containing the recommendation of the principal.* Forms prepared by the University must be used, and may be obtained from the Registrar. *These certificates should be sent to the University before August 1.*

Principals of accredited schools are requested to note the statement regarding the examination of freshmen in English (see p. 90)

* Any high school or academy in the state whose course of instruction covers the branches required for admission to the University may be admitted to its accredited list of preparatory schools after a satisfactory examination by a committee of the Faculty. Upon application made by an officer of any high school or academy in the state to the Secretary of the Committee on Accredited Schools, the University will examine the school with reference to placing it upon its accredited list of preparatory schools.

and also the statement regarding the additional requirement and examination in algebra for admission to the College of Engineering (see p. 259).

Graduates of four-year non-accredited schools in Wisconsin will be admitted without examination, on probation, upon recommendation of the principal, where the graduate in his high school course has satisfied the full requirements for admission to the University.

SCHOOLS OUTSIDE WISCONSIN. The following regulations will apply to graduates of schools without the state:

1. Graduates of secondary schools outside Wisconsin, included in the current list of accredited schools of the North Central Association, will be admitted when recommended and certified by the principal as indicated above, provided the minimum admission requirements of the University be fulfilled in all cases.

2. Graduates of other secondary schools outside Wisconsin will be admitted when properly recommended and certified; provided (a) That the school maintains on the basis of regular inspection accredited relationship with the state university, or other university within the state, included in the membership of the Association of American Universities. The state university must maintain the same standard of admission requirements as those institutions belonging to the Association of American Universities. (b) That the minimum admission requirements of the University of Wisconsin be fulfilled both as regards number of units and character of work. In such cases the character of the work submitted shall be interpreted to mean an average standing of "good".

Credentials properly certified by the principal on forms provided by the University should be submitted for approval *before August 1.*

The examination, which will be conducted by a committee of the Faculty, will cover the course of study and methods of instruction in the school. No school will be placed upon the list whose course of study is not fully equal to the four-year course of high schools recommended by the State Superintendent.

Any high school or academy with a complete four-year course whose course of instruction does not include foreign language may be admitted to the accredited list under the conditions stated above, provided its course of instruction covers fifteen units in the subjects accepted for admission to the University.

The University desires to keep fully informed regarding the work of its accredited schools by means of annual reports and frequent inspections. Every accredited school is required to report each year concerning its teachers, course of study, methods of instruction, and material equipment. Forms are furnished by the University for this purpose. The University sends out inspectors at its own expense and at the convenience of the members of the staff. Especial attention is called to the necessity of promptly notifying the Secretary of the Committee on Accredited Schools of changes in the dates of examinations and vacations. The list of accredited schools will be published near the end of the academic year; it will be sent to all accredited schools and to all high schools in the state. Copies may be obtained from the Registrar.

Advanced credit for high school work may be granted to students with satisfactory average standings presenting more than fifteen units accepted for admission, provided: (1) the subjects in which advanced credit is sought are the general subjects accepted for admission to the University; (2) the work is as advanced as work given in the freshman year; (3) the course for which credit is desired be approved by the chairman of the department; and (4) the student passes a satisfactory examination at least two hours in length, held at the University before or during the Christmas recess. No advanced credit will be given for work in language unless it be in excess of six units of language offered for admission, nor will advanced credit be given for less than three semester hours.

ADMISSION WITH ADVANCED STANDING

College Courses—Wisconsin Normal Schools

The University will accept for credit to advanced standing the work of the two years in college studies offered by the state normal schools of Wisconsin. The credits named hereafter will be given to students who, at the time of entering the normal school, were fully prepared to enter the freshman class at the University. The standard amount of credit will be thirty credits for one year's full work and sixty credits for two years' full work in studies approved by the several colleges and taken substantially in the order required of students at the University.

The following credits may be taken in the several colleges and courses:

A. College of Letters and Science.

Bachelor of Arts and Bachelor of Philosophy (General Course)—Sixty credits in required work and work regularly offered by the University to freshmen and sophomores.

Bachelor of Philosophy (Course for Normal School Graduates)—Junior rank.

Bachelor of Science—A special amount as may be determined by the committee on advanced standing.

B. College of Agriculture.

Required and elective language, mathematics, and science, approved as equivalents by the College of Letters and Science, to the amount of sixty credits. Technical agricultural work credited only if given by special and properly qualified teachers.

C. College of Engineering.

Credit for language and science, so far as these are required in Engineering, on the same basis as credit given in the College of Letters and Science. For mathematics, usually less credit; ordinarily one semester less than the amount takeni n normal school. In mechanical drawing, credit only so far as work is equivalent, as a technical study, to the course in the University. All drawings and plates made at the normal school must be submitted by a student who desires credit.

D. Law School and Medical School.

Students who are entitled to sixty credits in college studies will be admitted to the Law School, and also to the Medical School if they have taken the studies required for entrance to that school.

Students from the college courses in normal schools will not be granted more than two years' credit toward graduation; nor will they be granted more than sixty credits unless they enter a course whose first two years require more than sixty credits. In such case they may be granted more than sixty credits if the studies offered include the requirements of the university course in question.

Teachers Course—Wisconsin Normal Schools

Graduates of the Wisconsin state normal schools who desire to become candidates for degrees will be given credits as follows:

A. *Bachelor of Philosophy (Course for Normal School Graduates)*—Graduates of the two-year departmental courses in the state normal schools who have previously graduated from four-year high school courses and who upon graduation from the normal school are entitled to become candidates for an unlimited state certificate, will, upon presentation of their high school and normal school standings and certificates of graduation, be admitted to the junior year.

Graduates of the two-year departmental courses who are not high school graduates must present a complete record of their academic training and teaching experience. If this record is the substantial equivalent of high school graduation and two years of normal school work, such students will be given junior rank.

B. *Bachelor of Arts, and Bachelor of Philosophy (General Course)*—Graduates of the two-year departmental courses and of the specialized teachers courses who desire to become candidates for the degree of Bachelor of Arts or Bachelor of Philosophy (General Course) must submit for evaluation by the Committee on Advanced Stand-

ing a full statement of their high school standings and certificates of graduation. The amount of advanced standing granted ordinarily varies from 30 to 60 credits, depending upon the nature of the work taken in the normal school. The following conditions will be applied:

1. Graduates of the two-year departmental courses of normal schools must satisfy university requirements for the degrees (see pp. 107–110).
2. Application for laboratory credit in science must be accompanied by laboratory or field books.
3. No credit will be given for any work in a normal school done in a quarter, term, or semester in which more than 20 hours per week, exclusive of physical education and similar work, were taken, except on special recommendation of the president of the school.
4. Graduates of the two-year departmental teachers courses of normal schools will not be granted more than two years' credit toward graduation; nor will they be granted more than sixty credits unless they enter a course whose first two years require more than sixty credits. In such case they may be granted more than sixty credits if the studies offered include the requirements of the university course in question.

The University has given no consideration to the question of credit for the newly established three-year courses in the normal schools, the matter having been postponed at the request of the normal school presidents. In making the above statement in regard to credit for the two-year departmental courses, there is no implication that additional credit will be given for the three-year courses.

C. *Bachelor of Science.* Graduates of the departmental courses who desire to become candidates for the Bachelor of Science degree must comply with substantially the same requirements as for the Bachelor of Arts degree.

Normal Schools Outside Wisconsin

Graduates and students of normal schools of other states will be admitted to the University with such advanced credit as their previous work entitles them to, except that no credit will be given greater in amount than that granted to graduates of any normal school by the state university of the state within which the normal school is situated. In addition to the normal school certificate and

the certificate of high school work completed such graduates or students must present an official statement from the university of the state in question as to the amount of advanced credit that would be given for the work so completed.

See page 115 for the requirements for the degree of Bachelor of Philosophy (Course for Normal School Graduates).

Students From Other Colleges and Universities

Students from other institutions who have pursued standard college courses equivalent to those of the University will be admitted, and will receive credit for such courses upon the presentation of proper certificates of creditable standing and honorable dismissal. Blank forms for this purpose are provided by the University, and transfer records from other institutions are required to be made out on these forms and submitted, if possible, before August first. Former students of other institutions cannot be received as freshmen on the basis of their preparatory records.

The University of Wisconsin long ago proposed and has maintained arrangements with the colleges and normal schools of the state by which the College of Letters and Science has given credit for the work of freshman and sophomore years in standard college courses equivalent to those of the University. The number of students who enter the University with advanced standing under this arrangement has constantly increased. Throughout these years the College of Letters and Science has emphasized its belief that it was to the advantage neither of the student nor of the University to transfer to this college at the opening of the senior year or, in general, later than the opening of the junior year. The Faculty desires to give as much as two years of teaching to persons who are to receive the bachelor's degree in courses which normally require four years, and it believes that in all but exceptional cases such a degree should mean at least two years of work at the institution granting it. On the other hand, the Faculty fully recognizes the wisdom of the principle involved in giving credit for junior college work, and is glad to accept students of suitable preparation as sophomores or juniors.

While, therefore, the minimum number of credits to be obtained *in residence* for a degree still remains at 30 (see p. 118), students who desire to enter as undergraduates are strongly advised to do so not later than the beginning of the junior year. Students who apply for credit in excess of two years must expect to have their records closely scrutinized. The minimum requirement for graduation for a

four-year course in the College of Letters and Science is 45 credits. This will ordinarily mean attendance for one and one-half years or one year and two summer sessions at this University.

By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, Milwaukee Downer College, the National Teachers' Seminary of Milwaukee (provided the candidate majors in German), Marquette University, St. Clara College, and Milton College, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence, Ripon, Carroll or Marquette will be admitted to the College of Engineering of the University of Wisconsin on the same conditions as students who transfer to that College from the College of Letters and Science of the University of Wisconsin. Students of senior rank from Lawrence and Ripon who enter the College of Agriculture or Engineering, the Law School, School of Music, or the Course in Commerce, will receive credit for their professional studies toward graduation in the institution from which they come, to amounts to be determined by those institutions.

Students of other colleges of good standing who have not taken standard courses, but who have studied at least one year in the college proper, may be admitted to the University provisionally. In such cases the amount of credit will be determined by the Committee on Advanced Standing. The University reserves the right to test by examination the records presented.

No person will be admitted to the University later than November 1 of the year in which he expects to graduate.

ADULT SPECIAL STUDENTS

Persons twenty-one years of age who do not possess all of the requirements for admission and are not candidates for a degree are permitted to enter the College of Letters and Science and the College of Agriculture upon giving satisfactory evidence that they are prepared to take advantageously the studies which they desire. Such students are generally prepared to select their studies only from courses open to freshmen. If they do desire to take studies to which only advanced students of these colleges are regularly admitted, they must show special preparation, aptitude or necessity for such courses. This privilege of admission is granted in the College of Engineering only to such students as are able, on examination,

to meet all the entrance requirements in mathematics or who have completed their preparatory mathematics in the Extension Division of the University and present a certificate therefrom, duly approved by the chairman of the Department of Mathematics. The privilege of admission on the adult basis is not granted in the Law School, but see Index.

Candidates applying for admission on the above basis are required to present to the Registrar in advance of their coming an official detailed statement of their preparatory studies for evaluation and approval.

Students will not be admitted, save in exceptional cases, directly from the secondary schools to the status of adult specials; nor will graduates of accredited schools be permitted to enter as adult specials, since they are required to qualify for regular matriculation.

Before beginning their junior year students admitted on the adult basis must have fully satisfied all entrance requirements. When all entrance requirements have thus been absolved, such students may continue work in the University, will receive regular classification, and may be accepted as candidates for a degree.

DEGREES

First Degrees

The following baccalaureate degrees are conferred after successful completion of the prescribed courses of study and compliance with all other requirements of the University:

Academic

BACHELOR OF ARTS, upon the graduates in the College of Letters and Science, except those from the course without required foreign language, the course for normal school graduates, and from the courses in Chemistry, Pharmacy, and Medical Science.

BACHELOR OF PHILOSOPHY (GENERAL COURSE), upon the graduates from the course without required foreign language.

BACHELOR OF PHILOSOPHY (COURSE FOR NORMAL SCHOOL GRADUATES), upon the graduates from the course for normal school graduates.

Professional and Technical

BACHELOR OF LAWS.

BACHELOR OF MUSIC, upon graduates from the Four-year Course in Music.

BACHELOR OF SCIENCE (Agriculture).

BACHELOR OF SCIENCE, HOME ECONOMICS COURSE.

BACHELOR OF SCIENCE, CIVIL ENGINEERING COURSE.

BACHELOR OF SCIENCE, MECHANICAL ENGINEERING COURSE.

BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING COURSE.

BACHELOR OF SCIENCE, CHEMICAL ENGINEERING COURSE.

BACHELOR OF SCIENCE, MINING ENGINEERING COURSE.

BACHELOR OF SCIENCE, CHEMISTRY COURSE.

BACHELOR OF SCIENCE, PHARMACY COURSE, upon graduates from the Four-year Course in Pharmacy.

BACHELOR OF SCIENCE, MEDICAL SCIENCE COURSE.

BACHELOR OF SCIENCE, MANUAL ARTS COURSE.

BACHELOR OF SCIENCE, PHYSICAL EDUCATION COURSE.

GRADUATE IN AGRICULTURE, upon graduates from the Two-year Course in Agriculture.

GRADUATE IN PHARMACY, upon graduates from the Two-year Course in Pharmacy.

A graduate of any course may receive the baccalaureate degree of any other course by completing the additional studies required in that course. Two baccalaureate degrees cannot be taken in one year, and for a second bachelor's degree in the College of Letters and Science there are required one year's additional study and a special thesis.

The requirements for the bachelor's degrees are stated under the appropriate colleges and courses on subsequent pages.

Higher Degrees

The University confers in course the degrees of Doctor of Philosophy and Doctor of Public Health. The degree of Master of Arts is conferred as a second degree upon candidates who have received the degree of Bachelor of Arts or an equivalent, and the degree of Master of Science upon candidates who have received the corresponding baccalaureate degrees. The degree of Master of Public Health is granted in course to graduates of approved medical colleges for graduate work done here. The degree of Master of Philosophy is conferred upon candidates who have received the degree of Bachelor of Philosophy at the University of Wisconsin. Such candidates may receive the degree of Bachelor of Arts or Bachelor of Science by doing supplementary work. Candidates who have taken the degree of Bachelor of Science in one of the engineering courses may receive the degree of Civil Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, or Mining Engineer.

The conditions on which these higher degrees are granted will be found stated under the Graduate School, and also under the various colleges and schools.

THE COLLEGE OF LETTERS AND SCIENCE

G. C. SELLERY, DEAN.

There are two general courses in the College of Letters and Science: one leading to the degree of Bachelor of Arts, in which foreign language is a required study; the other leading to the degree of Bachelor of Philosophy (General Course), in which other required studies may take the place of foreign language.

There are also special courses in commerce, journalism, and medicine, leading to the degree of Bachelor of Arts; in chemistry, pharmacy, medicine, manual arts, and physical education, leading to the degree of Bachelor of Science; in music, leading to the degree of Bachelor of Music; and for normal graduates, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates). The requirements for degrees in these special courses will be found under the appropriate heads. (See Index.)

I. General Requirements in the General Courses leading to Degrees of Bachelor of Arts and Bachelor of Philosophy

1. Credits, Military Drill, Physical Education

The *credit* is the unit for computing the amount of work required for graduation. It is assigned to one hour of recitation or lecture or two hours of laboratory work per week for one semester (together with the accompanying study). Students are expected to secure 15 credits per semester in recitation, lectures, and laboratory work, making 30 credits per year, and 120 for the course. 120 grade points are also required for graduation. (See p. 77 for details.) In addition men are required to take 2 hours per week of physical training during the first two years, carrying a total of 4 credits. They are also required to take military work during the first two years to an amount not exceeding three hours per week, or 84 hours during each year; this work gives a total of 4 credits. (For details see Department of Military Science and Tactics.) Women are required to take 4 hours of physical training per week during the first two years, carrying in all 8 credits. The total requirements for

classroom work, military drill, and physical training are, therefore, 128 credits.

Each student is required to take class and laboratory work to the amount of 14–16 credits per semester, besides military drill and physical training in the case of students from whom these exercises are required. A student who desires to elect fewer than 14 credits must apply for permission through his adviser to the dean. In case a student has received a grade of *good* in each study of the preceding semester, he may take extra studies to an amount not exceeding 18 credits. No student will be permitted to receive more than 18 credits toward graduation in one semester except by permission of the Faculty, obtained in advance through the dean.

For the special requirements of candidates for the degree of Bachelor of Arts in the Commerce Course or the Medical Course see announcement under these heads.

Students transferring from a special course, *e. g.*, commerce or medicine, or from another college of the University, will receive no more than 15 credits a semester toward graduation for work already done, except in semesters in which all standings are 85 or above. They will not receive credit for technical studies of another college, except to the amount and under the conditions stated under Election of Studies in Other Colleges, p. 109.

2. Major Study and Thesis

Major Study.—At the beginning of the sophomore or the junior year every candidate for these degrees will normally select his major subject in one department of the College of Letters and Science. This department will determine the manner in which the work of the major shall be completed; the work required in the major (including thesis) may not be less than 20 nor more than 40 credits, the thesis receiving 4 credits.

Thesis.—All candidates are required to present a graduating thesis, except as provided below. The subject of the thesis must be approved by the student's adviser and filed with the chairman of the department in which the candidate is taking his major. It must represent some phase of the student's work in the major study and must be of a scholarly character. It is to be typewritten and bound according to specifications furnished by the Librarian of the University; and before it is accepted it must be approved by the instructor under whose guidance it has been done. It shall be deposited in the University Library by the Thursday before Commencement.

One of the following substitutes for the thesis may be allowed when, in the judgment of the department, it is advisable:

1. A course restricted to seniors and graduates, in groups of not more than ten, with written reports of independent work done in connection with the course under the supervision of the instructor.

2. An individual reading or research course, with frequent conferences between student and instructor and with written reports of independent work.

These substitutes shall involve work equivalent to at least 4 credits and shall be so certified by the instructor on the report card of each student taking either substitute. The several papers of each student shall deal with correlated subjects, and must be prepared with due attention to expression and to logical form. Before any student's papers shall be finally accepted as a whole, they shall be typewritten and bound together according to specifications obtaining in the case of the thesis. They shall be deposited in the University Library by the Thursday before Commencement.

3. Electives

All work not included in the required studies of each course (see p. 110 and 113) is elective, but there shall not be taken in any one department more than 40 credits, including required work, major, and electives. High school work for which university credit is given shall not count as part of these 40 credits.

4. Election of Studies in Other Colleges

Candidates for these degrees are allowed to elect in the College of Engineering, the College of Agriculture, in the Law School, or Library School, studies in an amount not exceeding 20 credits. The conditions under which these studies may be taken are as follows:

1. Before electing studies in other colleges or schools the candidate must have completed the work of the freshman and sophomore years of the College of Letters and Science, including those studies which come normally in the freshman and sophomore years at Wisconsin.

2. Studies in other colleges may be elected only by students who are to spend at least two full years in attendance at the University before receiving the bachelor's degree. Hence they may not be elected by students from other institutions who enter the University with more than half the credits required for graduation or by students who through correspondence study reduce the amount of required attendance at the University below two years.

3. Certain courses primarily intended for students of other colleges (*e. g.*, Mathematics 51), if listed in the departmental announce-

ments of the College of Letters and Science, are open in the same way as the courses primarily intended for students of the College of Letters and Science.

4. Courses in other colleges and schools which are parallel to courses offered in the College of Letters and Science may not be elected for credit without the consent of the dean of the College of Letters and Science.

5. Not more than 5 of the 20 credits may be secured in either semester of the junior year.

II. Required Studies in the General Course leading to the degree of Bachelor of Arts

a. English: Six credits (three credits per semester for two semesters); to be taken in the first year of residence.*

b. Foreign Language: Thirty-two credits in two, or more, foreign languages are required for graduation. These credits may be secured partly in high school and partly in the University, or wholly in the University. High school work is accepted at the rate of one unit for four university credits up to the amount of six units or twenty-four university credits. In general, students are required to take a minimum of eight credits in one foreign language in the University. Any student, however, who presents more than six units for entrance will be allowed to count the additional unit or units toward the total requirement of thirty-two credits, provided he passes a special examination, given by the college, upon four units of his high school work in one language. This examination will normally be given before the Christmas holidays in the first semester of the student's freshman year.

Students must have at least four units of high school work, or sixteen credits in the college, in one language, or the equivalent in combined high school and college work in one language.

Similarly, students must have at least two high school units, or eight university credits, in a second language.

One high school unit in language will be accepted only in case the student successfully continues this language in the college for at least one semester.

A student, therefore, who has two years of high school language needs twenty-four additional credits for graduation; if he has three years he needs twenty credits, etc.

* On the completion of course 1, a provisional pass mark is given; if at any time later in his course a student is reported as deficient or careless in English composition he may be required to take additional work in that subject.

French, German, Greek, Hebrew, Italian, Latin, Norse, and Spanish may be offered either for entrance or graduation.

c. Two of the following: natural science, 10 credits; mathematics, 6 credits; history, 6 credits, which must be a continuous three-credit course extending through two semesters.

Under natural science are included botany, zoology (or a combined course, Biology 1), chemistry, physics, and geology. All are courses of five credits per semester for two semesters, with laboratory work, or field work in geology.

d. Major study, thesis, and electives. See statement pp. 108–109.

5. Students of the Freshman Year

In this year one study alone is absolutely required: English 1, three times per week. All other studies of the year must be chosen from the following groups:

Group I. At least one subject must be taken from this group and not more than 10 credits may be chosen from any one subject.

Greek: 3–5 credits; two semesters.
Latin: 4–5 credits; two semesters.
Hebrew: 4 credits; two semesters.
German: 4 credits; two semesters.
French: 4 credits; two semesters.
Italian: 4 credits; two semesters.
Spanish: 4 credits; two semesters.
Norse: 4 credits; two semesters.

Group II. At least one subject must be chosen from this group. Not more than 10 credits may be taken in any one subject.

Mathematics:

Algebra: 3 credits; one semester.
Trigonometry: 3 credits; one semester.
These courses in mathematics are repeated each semester.

Science:

Botany: 5 credits; 2 semesters; 2 lectures, 4 laboratory periods, 1 recitation.
Zoology: 5 credits; 2 semesters; 2 lectures, 4 laboratory periods, 1 recitation.
Biology: A year's course arranged by combining Botany 1 (first semester) and Zoology 1b (second semester).
Chemistry: 5 credits; 2 semesters; 3 lectures, 3 laboratory periods, 1 recitation.
Physics: 5 credits; 2 semesters; 3 lectures, 2 laboratory periods,

2 recitations; or 2 lectures, 1 laboratory period, 3 recitations.
Geology: 5 or 3 credits; 2 semesters.
Astronomy: 3 credits; 1 semester. (This course cannot be offered as part of required science).

History:
Ancient History: 3 credits; 2 semesters.
English History: 3 credits; 2 semesters.
Medieval History: 3 credits; 2 semesters.

Students may secure 5 credits per semester in history by taking two courses. In this case they will do the full work of one course, receiving 3 credits; in the other course they will omit much of the collateral reading, reports, etc., and will receive 2 credits.

Drawing: 3 credits; 1 or 2 semesters.

The student may take 14, 15 or 16 credits from these studies. The combination may be made by adding to English (3 credits) two foreign languages from Group I (6 to 10 credits), with one subject from Group II (3 to 5 credits); or by taking but one foreign language (3 to 5 credits) with two subjects from Group II (6 to 10 credits). Students are advised to carry on the language, or languages, which they have had in the high school. Those who come with only two years of language preparation should continue the preparatory language during the freshman year.

The following courses open to freshmen will be found described under Departments of Instruction on the following pages. The figures following the name of the department refer to the number of the course as given under the proper heading under Departments of Instruction. Advanced courses in language are open only to students of suitable preparation.

English 1, Greek 5a, 5b, 7, 10 and 11, Latin 1, 3 and 6, German 1a to 3, and 14, French 1, 2, 10, 11, 13, 14 and 15, Spanish 1, 2, Italian 1, Mathematics 1, 2, 3 or 4, 7, 8 and 51, 52, Biology 1, Botany 2, Zoology 1b, Chemistry 1, Physics 1 and 1Sc, Geology 2 and 4, Astronomy 1, History 1, 5, and 10, Drawing 1, 2 (Freehand or Mechanical), Journalism 1 (no credit). Only the five credit courses in science can be counted toward the science required for graduation.

III. Required Studies for the degree of Bachelor of Philosophy (General Course)

All of the studies prescribed below are to be taken in college.

a. English, to be taken in freshman year, 10 credits (5 credits per semester for two semesters) *for students who do not elect foreign language in the freshman year.* 6 credits (3 credits per semester for two semesters) *for students who elect foreign language in the freshman year.*

b. Science and mathematics. A total of 20 credits to be taken in year courses. (*E. g.*, 6 credits in mathematics and 14 in science, or 10 credits in mathematics and 10 in science, or 20 in mathematics, or 20 in science, etc.)

c. Two of the following groups:
   1. Philosophy or mathematics, 10 credits in one of the two. Mathematics may not be offered both here and under b above.
   2. History, 10 credits.
   3. Foreign language, 14 credits. Not more than 8 of these may be in a beginner's course.

The total number of prescribed credits is therefore 40 to 44, in addition to English.

The departments and courses open for credit are the same as in the B. A. course. See statement on preceding pages.

Studies of the Freshman Year

The same studies are open to freshmen in this course as to those in the B. A. course and on the same terms. See statement on preceding pages, under B. A. course. Students may readily make the following combinations, in which the numbers represent the number of credits per semester. Other combinations are feasible.

a. Without foreign language.
   1. English 5 credits, history 5, science 5.
   2. English 5 credits, science 5, mathematics 3, history 3.
   3. English 5 credits, science 5, mathematics 5.
   4. English 5 credits, history 5, mathematics 5.

b. With foreign language.
   1. English 3 credits, language 4 or 5, history 3, science 5.
   2. English 3 credits, language 4 or 5, history 5, mathematics 3.
   3. English 3 credits, language 4 or 5, science 5, mathematics 3.
   4. English 3 credits, language 4 or 5, mathematics 5, history 3.

Students who may elect as indicated in Group B will be in line, if they choose to do so, to go on toward the B. A. degree instead of the Ph. B. They may continue foreign language in the sophomore year, and offer it as part of the prescribed credits for the Ph. B. degree, or the study may be discontinued at the end of the freshman year. In the latter case the student will need to offer 10 credits in philosophy or in mathematics, and 10 in history. Students may elect two foreign languages, but such students will naturally enter the B. A. course.

IV. Requirements for a Degree in the Course in Commerce

Students who have completed the regular four year course of the Course in Commerce will receive the degree of Bachelor of Arts. (See Index.)

V. Requirements for a Degree in the Course in Journalism

Students who have completed the regular four year course of the course in Journalism will receive the degree of Bachelor of Arts. (See Index.)

VI. Requirements for the Degree of Bachelor of Science

Students who have completed the regular four year course of the Course in Pharmacy will receive the degree of Bachelor of Science, Pharmacy Course. (See p. 226.)

Students who have completed the regular four year course of the Course in Chemistry will receive the degree of Bachelor of Science, Chemistry Course. (See p. 211.)

Students who have completed the regular four year course in Manual Arts will receive the degree of Bachelor of Science, Manual Arts Course. (See p. 234, School of Education.)

Students who have completed the regular four year course in Physical Education will receive the degree of Bachelor of Science, Physical Education Course. (See p. 234, School of Education.)

VII. Requirements for a Degree in the Course in Medical Science

Students who have fulfilled the necessary requirements will receive the degree of Bachelor of Science, Medical Science Course. (See Index, under Medical School).

The departments which constitute the Medical School are at present also constituent departments of the College of Letters and Science. The courses offered in these departments are open for election to any students in the College of Letters and Science who are prepared to take them. Candidates for the degree of Bachelor of Arts are not permitted to matriculate in the Medical School for more than one year. Candidates for the degree of Bachelor of Science, Medical Science Course, may be registered two years in the Medical School. They may, with the consent of their advisers, elect up to 18 credits per semester, and may confine their work to the science and language groups of studies. The language requirements are those laid down for admission to the Medical School. (See Index.)

VIII. Requirements for the Degree of Bachelor of Philosophy

Course for Normal School Graduates

Graduates of the two-year departmental courses of the state normal schools are admitted to advanced standing in the various courses and colleges of the University on conditions given under the heading Admission. (See Index.) A special course, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates), has been arranged by the University to meet the needs of most of those who graduate from the departmental courses of the state normal schools. Such graduates are admitted to junior standing in candidacy for this degree. The course contains a minimum required amount of advanced studies in philosophy and education—6 credits in each—with the privilege of further elections in those subjects. All courses in philosophy, except course 1 (elementary psychology) are open to election by normal school graduates. In education, no elementary course may be elected by a normal school graduate; the courses which he may elect in fulfillment of requirements are courses a and 1 on p. 147 and those numbered above 100 on pp. 148-149 of the catalogue. Departmental teachers courses in the several departments may *not* be elected in fulfillment of these requirements in education.

This course also requires a continuous study of one foreign language (Latin, French or German) during the two years of the course

—that is, a total of 16 credits. An exception to this requirement is made in certain cases.* Any student in this course who offers work in foreign language equal in amount to that demanded of candidates for the degree of Bachelor of Arts will not be required to pursue courses in foreign language in the University; and no student will be required to complete more work in foreign language than is demanded for the degree of Bachelor of Arts.

The student must also complete a major in some department on the same conditions as obtain for the B. A. degree. (See p. 108.)

The required work in the course, including a minimum of 20 credits in the major study, amounts to at least 48 credits. The student may not take courses that total more than 16 credits for the first semester, and he is under the same rules regarding number of credits as the student in the B. A. course. (See p. 107.) It is expected that the normal school graduate will give special attention to preparation for teaching some one branch of instruction, and he should choose his electives so as to attain this end. He must on entering select work in some one department as his major study. His adviser will be assigned from that department, and it will be the duty of the adviser to arrange the student's work so that he may satisfy the requirements both of the course and of the major study. These may be satisfied in two years, except in a few departments.

Students in the Course for Normal School Graduates may not elect studies in other colleges, except by special permission. This will ordinarily be granted only when the studies desired are necessary for the future work of the student as a teacher. Application for such permission should be made to the dean, through the director of the School of Education.

Military drill and physical training are not required of normal school graduates.

A student who completes the course for normal school graduates may secure the University Teachers Certificate by fulfilling the requirements stated on page 236.

In the first semester the student should begin foreign language, take part of the required courses in philosophy and education, and begin his major study. The course of study will be as follows:

*A normal school graduate who has had altogether five years of experience in teaching will be allowed to substitute for the required work in language sixteen credits in language, literature, history, or philosophy, of which at least twelve credits must be in one of the four fields named. If philosophy is chosen the credit must be in addition to the six credits regularly prescribed. These sixteen credits shall not be in single semesters of courses regularly running through the year, except by special permission: nor shall they be taken in the department of the major subject.

Junior Year. Foreign language (each semester), 4 or 5 credits; philosophy or education; major study; electives; total credits first semester, 14–16.

Senior Year. Continuation of foreign language; completion of required philosophy and education; major study and thesis; electives.

IX. Grade Point Requirements in the College of Letters and Science

The general regulations concerning the grade point system are stated on page 77. The special regulations of the College of Letters and Science are as follows:

1. A student in any course requiring 120 academic credits for graduation must secure 60 grade points and at least 60 credits in order to absolve the academic requirements of the first half of his four year course, and *thereafter* must secure 60 grade points and at least 60 credits in order to absolve the academic requirements of the second half of his four year course. In other words, the credits in excess of 60 required to secure the 60 grade points necessary for the first half of the four year course will not be counted toward graduation.

2. A student in any course requiring more than 120 academic credits for graduation must similarly secure one-half his grade points and at least half his credits in order to absolve the requirements of the first half of his four year course, etc.

3. A freshman must have 28 grade points and at least 28 credits before he may become a sophomore; a sophomore must have 58 grade points and at least 58 credits before he may become a junior, and a junior must have 88 grade points and at least 88 credits before he may become a senior.

Graduation in Less Than Four Years

Candidates for the degree of Bachelor of Arts who desire to graduate in three years may do so by obtaining 17 or 18 credits per semester after the first semester of the freshman year, and by attending three summer sessions, thus securing a total of 120 credits. Permission to take work to this amount will be given only to students whose standing in their studies is wholly satisfactory. No credit will be given for repetition in the Summer Session of studies taken in the regular session of the University, or for repeating in the regular session work done in the summer. Students will need to select carefully their work for the summer with reference to the required and elective studies of the course in which they expect to

graduate. The Summer Session offers exceptional opportunities for the preparation of a senior thesis. A student who expects to shorten his course by means of the Summer Session will necessarily consult his adviser before selecting his studies.

Period of Residence

Candidates for the bachelor's degree who enter with advanced standing must be in residence at the University at least two semesters, or their equivalent in summer sessions, and must secure at least 30 credits in residence. They must furthermore obtain from the University at least 45 credits toward graduation; of which, therefore, not more than 15 may be secured by correspondence courses. In most cases students should expect to be in residence three semesters or two semesters and two summer sessions.

Students must not expect to take the advanced work of the major study and the thesis in another institution or by correspondence. These studies should normally come at the end of the course, and candidates for degrees must, therefore, expect to take their final work in residence.

Student Advisers

Upon entrance, each student in the College of Letters and Science is assigned to a member of the Faculty who acts as his adviser during the freshman and sophomore years. At the beginning of the junior year, when the student has selected his major study, a member of the department in which his major is chosen becomes his adviser. Each semester, the student is required to consult his adviser concerning the choice of studies and the adviser must give his approval before the student is permitted to elect them.

The University Teachers Certificate

In accordance with the statutes of Wisconsin, certificates are issued to all graduates of a regular collegiate course who complete the course in pedagogical instruction prescribed by the University. This certificate, when presented to the State Superintendent, entitles the holder to receive a license to teach in any public school in Wisconsin for one year, renewable for a second year after one year of successful experience. Graduates who present satisfactory evidence of good moral character and of two years of successful teaching in the Wisconsin public schools after graduation are entitled to receive from the State Superintendent an unlimited state certificate.

For requirements for teachers certificate, see pp. 234.

Honors in the College of Letters and Science

Honors and High Honors are awarded at the end of the sophomore year and at graduation.

Sophomore Honors and *Sophomore High Honors* are awarded on the basis of a minimum of two full years of work (not less than 60 credits) completed in residence. A student securing 135 grade points* during these two years is awarded *Sophomore Honors;* a student securing 165 grade points is awarded *Sophomore High Honors.*

Senior Honors and *Senior High Honors* are awarded at the completion of at least two full years of work (not less than 60 credits) completed in residence after finishing sophomore work. A student securing 135 grade points during these two years is awarded *Senior Honors;* a student securing 165 grade points is awarded *Senior High Honors.*

Thesis Honors are granted for an exceptionally fine or original thesis, without consideration of the student's record in other work.

Senior Honors, Senior High Honors, and *Thesis Honors* are published in the Commencement Day program. *Sophomore Honors* and *Sophomore High Honors* are published in such manner as the dean of the college shall consider proper.

*See "Grade Point System," page 77.

Departments of Instruction

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

ANATOMY

Professors Bardeen (chairman), Miller; Assistant Professor Larsell; Instructor Skavlem; Assistants Bach, Hittner, Huber, Krohn, Raube, Urberg.

For full description of the courses offered in this department, see announcements under Medical School.

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Miller.
115. Mammalian Embryology. I or II; 2 cr. Dr. Bardeen.
120. Anatomy for students of physical education. II; 6 cr. Dr. Bardeen.
121. Human Anatomy. Yr. I; 6-8 cr; II; 4-6 cr. Dr. Bardeen, Dr. Skavlem.
122. Topographical Anatomy. I or II; 3 cr. Dr. Bardeen.
123. Special Human Anatomy. Dr. Bardeen.
126. Neurology. II; 4 cr. Dr. Miller.
130. Advanced Anatomy. Dr. Bardeen.
131. Historical Seminary. Dr. Miller.

For Graduates

235. Investigation under direction.

ASTRONOMY

PROFESSOR COMSTOCK.

For Undergraduates

1. General Astronomy. I; 3 cr. Open to freshmen. No previous mathematical training required. (Omitted 1920–21.)

6. Astronomical Practice. II; 2 or 3 cr. Planned for juniors and seniors in civil engineering.

7. Advanced Field Astronomy. Yr.; cr. to be arranged. Prerequisite: course 6.

For Undergraduates and Graduates

113. Spherical Astronomy. I; cr. to be arranged.

114. Practical Astronomy. II; cr. to be arranged.

116. Celestial Mechanics. Yr.; cr. to be arranged. Prerequisites: mathematics (courses in trigonometry, analytic geometry, and calculus); Astronomy 1.

122. Method of Least Squares. I or II; 2 cr. Prerequisites: mathematics (courses in higher algebra, analytic geometry, and calculus); at least one course in either geodesy or observational astronomy.

For Graduates

225. Research. Graduate students desiring to pursue advanced astronomical studies or research may have access to the instruments and library of the Washburn Observatory upon showing that they are qualified to profit by such opportunity.

BIOLOGY

Study in the biological sciences is conducted in the independent though coordinated Departments of Botany, Zoology, Anatomy, Physiology and Physiological Chemistry, Genetics, Pathology and Medical Bacteriology, Pharmacology and Toxicology, Plant Pathology, and Agricultural Bacteriology.

1. General Biology. Yr.; 5 cr. An elementary one-year course in general biology may be taken by combining Botany 1 (first semester) and Zoology 1b (second semester), which see. Introductory to botany, zoology, anatomy, bacteriology, and physiology, and a prerequisite for all advanced work in these departments.

BOTANY

PROFESSORS ALLEN, JONES, KRAUS, OVERTON (CHAIRMAN); ASSOCIATE PROFESSORS GILBERT, KEITT, SMITH; ASSISTANT PROFESSORS BARTHOLOMEW, DENNISTON; CURATOR DAVIS; INSTRUCTORS BAIRD, BROWNING, BRYAN, STEIL; ASSISTANTS CARLSON, FREY, GUGLER, KOEHLER, MARTIN, SHOWALTER, RICKETT, TILLOTSON; STUDENT ASSISTANTS BRADBURY, HOOVER, LOGEMANN.

FELLOW, MR. TOOLE.

Major in Botany

For a major in botany, a minimum of thirty credits is required; this should include, besides the thesis, one of the following groups of courses or their equivalents:

a. Biology 1 (Botany 1 and Zoology 1b), and courses 103, 104, 105, and 106; or

b. Biology 1, Botany 2, and two morphological courses (selected from courses 103, 104, 105 and 106).

For Undergraduates

1. General Botany. I or II; 5 cr. Preliminary to all advanced work. Accepted with Zoology 1b to make up an elementary course in general biology. Mr. Allen, Mr. Overton, Mr. Smith, Mr. Steil and staff.

2. Advanced General Botany. II; 5 cr. Accepted as part of a teacher's minor or, with course 1, in satisfaction of the requirement of a year of natural science. Prerequisite: course 1 or its equivalent. Mr. Bryan, Mr. Kraus, and staff.

90. The Teaching of Botany. II; 2 cr. Mr. Gilbert.

Senior Thesis. Yr.; 2 cr. A subject should be selected, whenever possible, before the close of the junior year.

For Undergraduates and Graduates

101. Diseases of Plants. I; 3 cr. Prerequisites: Botany 1 and Bacteriology 1. Mr. Jones, Mr. Gilbert, Miss Miller.

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Plant Pathology 101. Mr. Keitt. In alternate years as follows:

1. Fungous Diseases of Plants. (Given 1920–21.)
2. Bacterial Diseases of Plants. (Given 1919–20.)

103. Morphology of Algae. I; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Smith.

104. Morphology of Fungi. I; 3 cr. Prerequisite: course 1 or its equivalent. Mr. Gilbert.

105. Morphology of Bryophytes and Pteridophytes. II; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Allen, Mr. Steil.

106. Morphology of Seed Plants. II; 3 cr. Prerequisite: course 1 or its equivalent. (Omitted in 1919–20.) Mr. Smith.

110. Plant Histology. I; 3 or 4 cr. Prerequisite: course 1 or its equivalent. Mr. Denniston.

111. Microscopical Examination of Drugs and Foods. II; 3 cr. Prerequisite: course 110. Mr. Denniston.

***115. Histology of Woods.** I; 2 cr. Mr. Denniston.

122. Advanced Morphology and Classification. Cr. to be arranged. Prerequisite: adequate preparation in the morphology of the group studied.

129. Classification of Cultivated Plants. I; 2 cr. Mr. Bartholomew.

130. Identification and Classification of Seed Plants. II; 4 cr. Mr. Denniston, Mr. Baird.

131. Dendrology. II; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Denniston.

133. Microscopy of Drugs. I; 3 cr. Prerequisite: course 110. Mr. Denniston.

146. Plant Physiology. II; 4 cr. Prerequisite: course 1 or its equivalent, and a knowledge of physics and chemistry. Mr. Overton, Mr. Browning.

147. Advanced Plant Physiology. Yr.; 3 cr. Prerequisite: course 146 or its equivalent, and a knowledge of physics and chemistry. Mr. Overton.

150. Cytology. Yr.; 5 cr. Prerequisite: courses 103 to 106, or their equivalents. Mr. Allen.

154. Evolution and Inheritance in Plants. I; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Bryan.

156. Facts and Theories of Heredity. II; 2 cr. Prerequisite: course 1 or its equivalent. Mr. Allen.

For other courses dealing with evolution and heredity, see Courses 6 and 107 in the Department of Zoology, and 1, 101, 104, and 105 in the Department of Genetics (College of Agriculture).

For Graduates

214. Seminary in General Botany. Yr. Mr. Allen.

215. Seminary in Plant Physiology. Yr. Mr. Overton.

*See also Forest Products Laboratory for other lectures on wood structure.

216. Research. Yr. Investigation may be undertaken in any department of botany in which the student's preparation is adequate.

220. Advanced Mycology. Yr. Prerequisite: Course 104 or its equivalent. Mr. Gilbert.

221. Classification of Parasitic Fungi. Yr. Prerequisite: the equivalent of Botany 104 or of Plant Pathology 101. Mr. Davis.

223. Seminary in Plant Pathology. Yr.; 1 cr. Mr. Jones.

225. Research in Plant Pathology. Cr. to be arranged. Mr. Jones, Mr. Keitt.

248. Physiology of the Fungi. I. Prerequisites: course 146 or its equivalent, and a knowledge of physics and chemistry. (Omitted in 1919–20.) Mr. Overton.

252. Cytology of the Fungi. II. Prerequisites: courses 104 and 150, or their equivalents. Mr. Gilbert.

CHEMISTRY

Professors Fischer, Kahlenberg, Kremers, Lenher, Mathews (chairman), Walton; Associate Professor Krauskopf; Assistant Professors Adkins, Koenig, Nebel*, Schuette, Titus; Instructors Beard, Bohnson, Clark, Clevenger, Langenhan, Ritter, Schierz, Schmidt, Schrenk, Shaw, Strickler, Trautmann, Wakeman, Williamson, Wise; Assistants Botts, Cheetham, Conover, Herzog, Hickey, Keebler, Kraemer, Krause, Lueck, Mason, Parsons, Smith, Snyder, Stone, Tosterud, Warttman; Student Assistants Beglinger, Bethke, Helfaer, Hoppert, Koch.

Fellow, B. H. Carroll.

Du Pont Fellow, F. L. Browne.

Scholar, Helen Skinner.

For an undergraduate major in chemistry are required in addition to a thesis, at least 20 credits consisting of course 1, one semester of course 11, and one semester of course 120.

For Undergraduates

1. General Chemistry. Yr.; 5 cr. Mr. Walton, Mr. Krauskopf, and staff.

2. General Chemistry. Yr.; 3 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Koenig, and staff.

*On leave of absence for year 1919–20.

90. The Teaching of Chemistry. II; 2 cr. Prerequisites: Chemistry 1; 120, first semester; credit or enrollment for five credits in Chemistry 11. Mr. Walton.

11. Quantitative Analysis. Yr.; 3 to 5 cr. Prerequisite: General chemistry including qualitative analysis. Mr. Lenher, and staff.

11Ag. Quantitative Analysis. I; 2½ cr. For agricultural students. Prerequisite: General Chemistry, including qualitative analysis. Mr. Lenher and staff.

17. Chemical Preparations. 2 or more credits. Mr. Lenher.

20. Organic Chemistry. I; 2 cr. class; ½ to 2 cr. lab. Prerequisite: Chemistry 1. Mr. Fischer and staff.

26. Inorganic Pharmaceutical Chemistry. I; 4 cr. Required of students in pharmacy. Prerequisites: courses 1, 11 and 17. Mr. Kremers, Miss Wakeman.

27. Organic Pharmaceutical Chemistry. II; 5 cr. Prerequisite: course 20. Required of students in pharmacy. Mr. Kremers, Miss Wakeman.

30. Physical Chemistry. I; 3 cr. For chemical engineering students. Mr. Mathews, Mr. Williamson.

45. Alkaloid Assay. II; 1 or more cr. One hour required of students in pharmacy. Additional work may be elected upon consultation. Mr. Langenhan.

40. Plant Chemistry. 3 cr. Supplementary to Botany 132. Miss Wakeman.

Senior Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

107. History of Chemistry. Yr.; 1 cr. Mr. Kremers.

108. Advanced Qualitative Analysis. II; 2 or more cr. Prerequisite: course 1. Mr. Krauskopf.

112. Advanced Quantitative Analysis. A continuation of course 11. Mr. Lenher.

113. Water Analysis. I; 1 cr. Prerequisite: Chemistry 11. Mr. Schuette.

116. Industrial Organic Analysis. II; cr. to be arranged. Mr. Schuette.

118. Iron and Steel Analysis. Prerequisite: Chemistry 11. Mr. Lenher.

119. Proximate Organic Analysis. I; 3 cr. Prerequisites: Chemistry 11 and Chemistry 120. Mr. Schuette.

120. Organic Chemistry. Yr. 2 cr. class; 1 to 3 cr. lab. Prerequisite: Chemistry 1. Mr. Fischer, Mr. Adkins, and staff.

121. Advanced Organic Preparations. Cr. to be arranged. Mr. Fischer and staff.

125. Chemistry of Carbohydrates. I; 2 cr. class; 1–3 cr. lab. Mr. Fischer.

126. Chemistry of Coal-Tar Dyes. II; 2 cr. class; 1–3 cr. lab. Mr. Fischer.

127. Chemotherapy. Cr. to be arranged. Miss Wakeman.

128. Chemistry of Organic Nitrogen Compounds. I; 2 cr. Mr. Fischer.

130. Physical Chemistry. Yr.; 5 cr. Prerequisites: Chemistry 1 and 11. Mr. Mathews.

131. Electrochemistry. II; 2 or more cr. (Given 1919–20.) Mr. Mathews.

132. Thermal Chemistry. I; cr. to be arranged. (Given 1919–20.) Mr. Mathews.

133. Photochemistry. I; 2 or more cr. (Given 1920–21.) Mr. Mathews.

135. Chemistry of Solutions. Yr.; 2 to 5 cr. Mr. Kahlenberg.

136. Relation of Physical Chemistry to other Sciences. II; 2 cr. Mr. Kahlenberg.

137. Colloids. II; 2 to 5 cr. (Given 1920–21.) Mr. Mathews.

146. Chemistry of Foods and their Adulterations. II; 5 cr. Prerequisites: one semester's work each in Chemistry 11 and 120. Mr. Schuette.

For Graduates

222. Research in Organic Chemistry. Mr. Fischer, Mr. Adkins.

224. Advanced Organic Chemistry. Lectures. Yr.; 2 cr. Mr. Fischer.

234. Chemical Equilibrium. I; 1 cr. Mr. Walton.

235. Advanced Physical Chemistry. II. Hours to be arranged. (1921.) Mr. Titus.

237. Research in General or Physical Chemistry. Especially designed for graduates seeking higher degrees. Mr. Kahlenberg, Mr. Mathews, Mr. Titus, Mr. Walton.

238. Chemical Seminary. Yr.; 1 cr. Mr. Kahlenberg.

239b. Seminary in Physical Chemistry. Yr.; 1 cr. Mr. Mathews, Mr. Walton.

241. Advanced Plant Chemistry. Mr. Kremers.

242. Research. Special reference to the chemistry of foods and alkaloids. Mr. Fischer.

243. Research. Volatile oils or other subjects of organic chemistry, with special reference to plant chemistry. Mr. Kremers.

251. Advanced Inorganic Chemistry. 2 cr. Lectures alternate with Chemistry 255. (Given in 1920–21.) Mr. Lenher.

252. Inorganic Preparations. Prerequisite for research in inorganic chemistry. Mr. Lenher.

253. Research in Inorganic Chemistry. Mr. Lenher.

255. Advanced Inorganic Analysis. 2 cr. Lectures. Alternates with Chemistry 251. (Given 1919–20.) Mr. Lenher.

CLASSICS

Emeritus PROFESSOR SMITH; PROFESSORS SHOWERMAN, SLAUGHTER (CHAIRMAN); ASSOCIATE PROFESSORS FISKE, LAIRD;* ASSISTANT PROFESSORS ALLEN, SABIN; ASSISTANT, MISS PENCE.

ADAMS FELLOW, MR. HALEY.

UNIVERSITY FELLOWS, MR. BRYAN AND MISS HUGHES.

SCHOLAR, MISS PUTCAMP.

The courses in Classics are divided into three groups:

I. Introductory courses (1–20) are for undergraduates and may not be counted for advanced degrees in Classics. Greek 1 and Latin 1 count toward the bachelor's degree and the language requirements in the University, but will not be accepted as part of a major in Greek or Latin.

II. 105–127 are open to students who have completed Greek 20 or Latin 7, or an equivalent, and may be counted toward the master's degree. Latin 107 is required of all students who desire the University Teachers Certificate in Latin.

III. 220–233 are for graduate students, but are not open to those who have completed less than 20 semester hours of undergraduate Greek or Latin.

Greek or Latin Major

The requirements for a major in Greek or Latin are twenty-four credits as a minimum, not including Greek 1 or Latin 1. Greek 20, 105, and 106, to the extent of six credits, may be counted toward a Latin major. At least six credits in addition to the thesis should be chosen from courses 105 to 127, but no specific requirement of courses is made. (See page 240 for requirements for Teachers Certificate.)

* Absent on leave 1919–20.

GREEK

For Undergraduates

1a. Elementary Greek. I and II; 4 cr. Mr. Bryan.

7. Second Year Greek. 3 cr. Mr. Haley.

10. Third Year Greek. Yr.; 3 cr. Mr. Laird.

11. Prose Composition and Sight-Reading. Yr.; 2 cr. Mr. Laird.

20. Fourth Year Greek. Yr.; 3 cr. Prerequisite: course 10 or equivalent. Mr. Laird.

For Undergraduates and Graduates

105 Greek Lyric Poets. Yr.; 3 cr. Mr. Showerman.

106. Greek Dramatic Poets. Yr.; 3 cr. Mr. Showerman.

107. Greek Historians. Yr.; 2 cr. Mr. Laird.

108. Plato. Yr.; 2 cr. Mr. Laird.

109. Greek Orators. Yr.; 2 cr. Mr. Laird.

In courses 107, 108 and 109 the emphasis is placed on accuracy of interpretation.

110. Advanced Composition. Yr.; 1 cr. Mr. Laird.

112. Greek and Roman Life and Letters. (See Latin 112.)

113. Classical Drama in English. I; 3 cr. A knowledge of Greek is not required. (See Comparative Literature 113.) Mr. Showerman.

122. Classical Art. Yr.; 2 cr. (See Fine Arts 122.) Mr. Showerman.

125. Greek Civilization. I; 2 cr. (See History 125.) Mr. Westermann.

For Graduates

220. Greek Grammar. I; 2 cr. Mr. Laird.

221. Greek Syntax. II; 2 cr. Mr. Laird.

222. Greek Inscriptions. Yr.; 2 cr. Mr. Laird.

227. Greek Religion. I; 2 cr. Mr. Fiske.

230. Greek Seminary. Yr.; 2 cr. In 1920–21, the subject will be Greek Inscriptions. Mr. Laird.

LATIN

For Undergraduates

1. Elementary Latin. Yr.; 5 cr. Miss Pence, Miss Hughes, Mr. Fiske.

3. Cicero and Virgil. Yr.; 4 cr. An additional hour for those who desire prose composition. Miss Allen.

6. Cicero, Terence and Livy. Yr.; 4 cr. Mr. Fiske, Mr. Showerman.

7. Horace, Catullus, and Martial. Yr.; 3 cr. Mr. Slaughter.

8. Tibullus, Propertius and Ovid. II; 2 cr. Special reference to mythology. Miss Allen.

9. Pliny's Letters and Tacitus' Agricola. II; 2 cr. Miss Allen.

10. Classical Mythology. I; 1 or 2 cr. Latin not essential. Miss Allen.

For Undergraduates and Graduates

107. Prose Composition. Yr.; 2 cr., if an additional elective hour of lectures on syntax is taken. Mr. Fiske.

108. Cicero's Letters and Orations. I; 3 cr. Mr. Slaughter.

109. Roman Drama. II; 3 cr. Mr. Slaughter.

110. Lucretius. II; 3 cr. Mr. Slaughter.

111. Virgil. I; 3 cr. Mr. Slaughter.

112. Greek and Roman Life and Letters. II; 1, 2 or 3 cr. Greek and Latin not essential. Mr. Showerman.

114. Roman Philosophy. II; 2 cr. Miss Allen.

116. The Teaching of Latin in Secondary Schools. Yr.; 2 cr. Miss Sabin.

118. Roman Satire. Yr.; 2 cr. Mr. Fiske.

119. Roman Historians to Tacitus. Yr.; 2 cr. Mr. Fiske.

123. Roman Monuments. II; 2 cr. Latin not essential. Mr. Showerman.

127. Hellenistic-Roman Civilization. II; 2 cr. (See History 127.) Mr. Westermann.

For Graduates

225. Latin Grammar. I; 2 cr. Mr. Laird.

226. Latin Syntax. II; 2 cr. Mr. Laird.

227. Roman Religion. II; 2 cr. Mr. Fiske.

228. Roman Archaeology. II; 3 cr. 123 with an additional hour for reports. Latin essential. Mr. Showerman.

229. Palaeography and Epigraphy. Yr.; 2 cr. Mr. Slaughter.

231. Latin Literature. Yr.; 3 cr. Miss Allen.

232. Literary Criticism. Yr; 2 cr. Miss Allen.

233. Latin Seminary. Yr.; 2 cr. In 1920–21 the subject will be *Horace*. Mr. Slaughter.

COMPARATIVE LITERATURE

COMMITTEE IN CHARGE: PROFESSORS OLSON, SHOWERMAN; ASSOCIATE PROFESSORS CERF, DODGE (CHAIRMAN); ASSISTANT PROFESSOR MORGAN.

The courses in comparative literature are designed to meet two main needs: (1) That of undergraduates who have not the command of foreign languages necessary to the fundamental study of international types, movements or relations in literature, but who may wish to secure a general understanding of some of the more important of these; and (2) That of graduate students, sufficiently equipped with foreign languages, who may wish to supplement their work in particular literatures with detailed study of special interrelations. If graduate students wish to elect courses that are conducted largely in translation, they should understand that, in these, graduate credit is given only when the work in at least one of the foreign languages involved is done in that language.

There is no undergraduate major in comparative literature, but various courses on the list count toward a major in one or other of the language departments.

Graduate students who are working toward a doctor's degree in one of the language departments may take a first or second minor in comparative literature. The degree of master of arts may also be taken in this field. All candidates for either degree who wish credit in comparative literature should consult the chairman, since each case requires a special arrangement of studies. Courses not on this list are frequently accepted or required.

For Undergraduates

1. Ancient Classical Epic. II; 3 cr. (Omitted 1919–20.) Mr. Slaughter.

7. Contemporary Drama. Yr.; 2 cr. Does not count for English major. Mr. Pyre.

8. The Contemporary Novel. Yr.; 2 cr. Does not count for the English major. Mr. Campbell.

50. Masterpieces of Romance Literatures in Translation. Yr.; 2 cr. Mr. Cerf.

For Undergraduates and Graduates

102. Renaissance Epic. II; 2 cr. Does not count for the English major. (Omitted 1919–20.) Mr. Dodge.

113. Ancient Classical Drama. I; 3 cr. Mr. Showerman.

141. Principles and Practice of Translating. II; 1 or 2 cr. For students with advanced training in German, French, or Italian. Counts for the German major. (Omitted 1919–20.) Mr. Morgan.

146. The Ballad. I; 2 cr. Counts for the English major. Mr. Beatty.

159. Germanic Mythology and Heroic Legends. II; 2 cr. Counts for the German major. Mr. Roedder.

For Graduates

244. The Medieval Drama. I; 2 cr. Its liturgical origins. (Omitted 1919–20.) Mr. Young.

248. Medieval Literature. (Omitted 1919–20.) Mr. Reed.

250. The Renaissance in Romance Countries. Yr.; 2 cr. Mr. Cerf.

254. French Romanticism in its International Relations. Yr.; 2 cr. (Omitted 1919–20.) Mr. Cerf.

For Anglo-German relations see German 248A.

ECONOMICS

PROFESSORS COMMONS, ELWELL, ELY (CHAIRMAN), GILLIN, GILMAN, HIBBARD, ROSS, SCOTT; ASSOCIATE PROFESSORS GARDNER, HESS, KIEKHOFER (EXECUTIVE SECRETARY), LESCOHIER, MACKLIN; ASSISTANT PROFESSOR MCMURRY; LECTURERS ANDERSON, JEROME; INSTRUCTORS GIBSON, GLAESER, HAAKE, KRUEGER, LYNN, MCKAY, S. L. MILLER, MOFFAT, PERLMAN; ASSISTANTS CARPENTER, DENNISON, GROVES, HERTZLER, KOLB, MERTZKE, G. MILLER, MOREHOUSE, OLSON, SHARP, WHYTE.

FELLOWS, MISS DIETRICH, MR. TYLOR, MR. WORKING.

SCHOLARS, MISS DAVIS, MR. WERTZ.

Organization

The Department of Economics offers instruction in the thirteen groups of courses listed below. For the encouragement and supervision of graduate and research work there has been organized the Division of Economics, including the four groups, economics, agricultural economics, commercial economics, and sociology.

Aims

The work of the Department of Economics has the following distinct but related aims:

1. To provide instruction in economics and sociology for undergraduates in all the colleges and schools of the University. Emphasis is placed upon the cultural importance, professional value, and citizenship use of these studies. Economics and sociology as aids to the intelligent discharge of one's duties as an American citizen receive particular attention.

2. To provide advanced work for graduate students working for higher degrees.

3. To assist and encourage the development of economic research studies.

4. To provide special professional training for business pursuits, industrial service, social service, and the public service.

Requirements for an Undergraduate Major

Students majoring in the Department of Economics may take their major in either economics or sociology. Thirty credits, selected from the courses offered by the department, are required for a major in economics and thirty in sociology. A maximum of forty credits may be counted toward graduation. Courses below marked by an asterisk may be taken in addition to these forty credits, but may not be included in them, since they must also be taken in addition to the 120 credits required for graduation from the College of Letters and Science.

Economics. For a major in economics, the thirty credits required must include the following:

8 credits in 1a and 1b (Elements of Economics)
3 credits in 130a (Statistics)
4 credits for the thesis and a minimum of
15 additional credits.

This minimum of fifteen additional credits must be in related courses to be selected in conference with the major adviser, and shall not include Economics 109 (Commercial Law) nor more than seven credits from Group XI (Sociology.)

The thesis may be written in any one of the fields designated in groups II–X as described on pages 139–143; usually a minimum of two related courses in the field selected is required as a background for the thesis.

Sociology. For a major in sociology the thirty credits required must include the following:

4 credits in 1a (Elements of Economics)
3 credits in 130a (Statistics)
15 credits selected from Group XI (Sociology)

4 credits for the thesis
4 additional credits in economics.

These additional credits are to be selected in conference with the major adviser.

COURSE IN COMMERCE. In place of majors as above defined, students in the Course in Commerce elect groups of courses arranged with a view to preparing them for the vocation they expect to enter. These groups are described on pages 215-218 of this catalogue and in the special Bulletin of the Course in Commerce.

Requirements for the Master's Degree

The attention of graduate students is called to the general requirements of the Graduate School as set forth under Graduate School. (See Index.) Within the Division of Economics the master's degree may be taken in any one of the four groups included in it: (1) Economics, (2) Agricultural Economics, (3) Commercial Economics, and (4) Sociology.

All candidates for the master's degree must have adequate undergraduate training, and must present from the graduate courses offered by this Division as a minimum a number of credits equal to one-half of the total graduate credits offered in support of the candidacy for the master's degree. The candidate will be expected on the basis of his undergraduate and graduate training to show thorough knowledge of the principles of economics, familiarity with statistical method, and intensive knowledge of one or more of the special fields designated in Groups I–XI. The credits to be offered must be selected in conference with the major professor.

Requirements for the Doctor's Degree

The attention of graduate students contemplating working for a doctor's degree is called to the general requirements of the Graduate School as set forth under Graduate School. (See Index.) Within the Division of Economics the doctor's degree may be taken in any one of the four groups included in it: (1) Economics, (2) Agricultural Economics, (3) Commercial Economics, and (4) Sociology. Students may, if they wish, elect one of these groups as a major and another as a minor, and need in that case offer no minor outside the Division of Economics, although they are advised to offer either a first or second minor in some related department.

MAJOR. Candidates for the degree of doctor of philosophy, who major in the Division of Economics, are all expected to give evidence of the following:

1. Familiarity with the nature and development of economic or social institutions.
2. Knowledge of the principles of economics.
3. Knowledge of the history of economic thought.
4. Familiarity with statistical methods.
5. Intensive knowledge of the special field selected as the major, i. e., economics, agricultural economics, commercial economics, or sociology. In the special field selected candidates will be expected to be familiar with the literature of the subject and the methods of research.
6. Ability to prosecute research as shown in the production of a thesis in the special field selected for the major.

FIRST MINOR. Candidates for the degree of doctor of philosophy who wish to offer a first minor in the Division of Economics may present the general work required for a major as enumerated under 1, 2, 3 and 4 above, or the work of one of the special fields enumerated in 5.

SECOND MINOR. Candidates for the degree of doctor of philosophy who wish to offer a second minor in the Division of Economics must present a minimum of six credits of related graduate work. A special written examination will be given on the work offered for the second minor.

Economics and Special Professional Courses

Course in Commerce.—The importance of professionally trained men and women for business has long since been recognized in the establishment of the Course in Commerce. The present course dates back to 1900. It is a course formally established by the University, its work extending over four years. Its curriculum consists in large part of courses offered by the Department of Economics. All inquiries should be addressed to Professor W. A. Scott, Director of the Course in Commerce. (See pages 215–219 of this catalogue and the special Bulletin of the Course in Commerce.)

Employment Management and Industrial Service.—The Department of Economics, in cooperation with the Industrial Commission of Wisconsin, has arranged a sequence of courses preparing for the profession of employment management with corporations, or for such positions as factory inspector with state and federal depart-

ments of labor, or as employment agents in the state and federal employment service.

Arrangements have been made with manufacturing establishments having successful labor departments, by which students serve an apprenticeship in order to get practical experience and to try out their personality and fitness in dealing with working people, foremen, superintendents, and employers.

In the sophomore year, students take the course in the Elements of Economics and in the junior and senior years they elect courses in labor problems, labor legislation, American labor history and labor history and socialism.

Along with these courses the Department of Economics furnishes statistical work which is essential to employment management, a course in factory and office administration, courses in social psychology and general sociology, and courses in Americanization of the workers, an activity which employers have been widely undertaking since the beginning of the war.

The Department of Physical Education furnishes courses in first aid in accidents and sickness; the Department of Medical Bacteriology furnishes courses in industrial and public hygiene.

The Engineering College gives a number of hours each week to practice work in the machine shops and foundries of the University. This acquaints the student with machinery, safety appliances and the qualifications necessary in workers for the different classes of work and other essential practical problems of employment management and service. The College of Engineering also furnishes the courses in city planning and housing of wage earners.

The Home Economics Department has courses on house management and housing the worker.

The Department of Psychology offers an introductory course in psychology and additional courses on foundations for applied psychology.

In the Education Department the courses on vocational education and guidance enable the student to take part in the important new work of employers in training and educating their employees for the various occupations. In this connection the Director of Vocational Education of the State Board of Industrial Education assists in the conduct of the course.

The Manual Arts Department offers courses in vocational education and job analysis.

Vocational conferences are held with the Industrial Commission, at which employment managers and service workers from various

establishments, along with the deputies of the Commission, describe the practical work of the profession. The Industrial Commission also gives practical work in safety and sanitation, in handling child labor permits, and in reports and statistics required of employers, covering accidents, compensation, wages, etc.

The Department of Economics recommends that all who plan to take this course make their elections in the sophomore year in the course in Elements of Economics, in order that they may take the three years' course and may get the shop practice during the summer vacations following the sophomore and junior years.

A suggested sequence of courses for students is as follows:

Sophomore Year.

Elements of Economics, Economics 1a and 1b.
First Aid, Physical Education 16.

Junior Year.

Labor Legislation or Labor Problems, Economics 123 or 122.
Labor History or Socialism, Economics 145 or 146.
Statistical Method, Economics 130a.
Evolution of Industrial Society, Economics 120.
Social Psychology, Economics 139.
Industrial and Public Hygiene, Pathology 102.
House Management, Home Economics 1a and 1b.
Introduction to Psychology, or Foundations of Applied Psychology, Philosophy 1 or 102.
Americanization, Economics 170.

Senior Year.

Labor Problems or Labor Legislation, Economics 122 or 123.
Socialism or Labor History, Economics 146 or 145.
Economic Statistics, Economics 130b.
General Sociology, Economics 140.
Factory and Office Administration, Economics 11.
City Planning and Housing of Wage Earners, City Planning 101 and 102.
Vocational Education and Guidance, Manual Arts 113.
Job Analysis, Manual Arts 109.

The vocational conferences with the Industrial Commission are held throughout the year.

Inquiries concerning employment management and industrial service should be addressed to Professor John R. Commons.

Social Work.—Under the changed conditions which the World War has brought about, social organizations of all sorts are broadening the scope of their work. Consequently, the demand for trained workers in the various fields of social service has increased enormously. Organizations such as the Associated Charities and the Red Cross, dealing with family problems, are seeking men and women trained for this work. The same is true of agencies dealing with community organization, such as community centers and public and social welfare societies. Other things being equal, they prefer the person who has had university work in sociology and economics.

For a number of years graduates of the University of Wisconsin who have majored in sociology have found ready entrance into some field of social work. The suggestion of a group of studies designed to assist students who wish to enter some form of social service ought to be of distinct value to such students.

Workers in child welfare, anti-tuberculosis, juvenile protection, Red Cross, associated charities, and similar organizations need a background of sociology and economics. This the University can provide.

Increasing numbers of college students are looking forward to some kind of social work. The Department of Economics, wishing to meet the demand by social agencies for University graduates who have some understanding of social problems, and wishing to assist college students in the selection of such courses as will be most valuable to those looking forward to social work as a vocation, has arranged a program of courses training for social work. These courses, while distinctly cultural in their nature, serve also to prepare both for professional courses in the schools of philanthropy, and to give a background to those who will secure their training through an apprenticeship in some good social agency.

During the first two years in college, students following this program will devote most of their time to foundational studies and studies preparatory to the courses more directly training for social work.

The special studies of the last two years of this program should be selected by the student in consultation with his adviser. The selection will be made with direct reference to preparing the student so far as possible for the particular kind of social work in view. The following courses are suggested:

Freshman Year

English..... 6 credits
Natural Science..... 10 credits
(Biology 1 is suggested)
History..... 6 credits
*Foreign Language..... 8 credits

Sophomore Year

Natural Science..... 10 credits
(If not taken in Freshman year)
*Foreign Language..... 8 credits
Elements of Economics.. 8 credits
(Economics 1a and 1b)
Social Origins..... 4 credits
(Economics 46)
Suggested Electives 0–18 credits

Choice suggested from: Psychology (Philosophy and Psychology 1); Elementary Logic (Philosophy and Psychology 11); History of the U. S. (History 4); History of the West (History 111); American Government and Politics (Political Science 7); General Physics (Physics 1); Household Bacteriology (Agricultural Bacteriology 4).

Junior Year

Economics..... 6 credits

Choice suggested from: Labor Problems (Economics 122); Labor Legislation (Economics 123); American Labor History (Economics 145); Labor History and Socialism (Economics 146); Industrial Evolution (Economics 120); Rural Life (Economics 25).

Sociology..... 9 credits

Choice suggested from Degeneracy and Society (Economics 258); Social Psychology (Economics 139); Poverty and Relief (Economics 141); Social Problems (Economics 4).

Statistics..... 3 credits
(Economics 130a)
Selected Electives..... .... 9 credits

Choice suggested from: Social and Political Ethics (Philosophy and Psychology 42); Industrial Insurance (Economics 121); Heredity and Eugenics (Zoology 6); Abnormal Psychology (Philosophy and Psychology 107); Home Economics 1; Foundations of Applied Psychology (Philosophy and Psychology 102).

Free Electives..... 3 credits

Senior Year

Sociology..... 8 credits

General Sociology (Economics 140); Criminology and Penology (Economics 161); Methods of Social Service (Economics 147).

Selected Electives..... .... 12 credits

Choice suggested from: Home Economics 7, 10, 123; City Planning 101, 102; Advanced Composition (English 6).

Free Electives..... 8 credits
Thesis..... 4 credits

*Required of students taking the B. A. degree.

Students taking these courses are expected to conform to the usual requirements of the University for graduation and, except in the case of adult specials, must meet the requirements for a major in sociology.

All inquiries concerning training for social work should be directed to Professor J. L. Gillin.

Public Service.—Since the establishment of the Department of Economics in 1892 much attention has been given to the training of men and women for the public service. Scores of former students are today occupying important positions in the state and federal governments. Steps are now being taken with the cooperation of other departments of the university and the state government to work out sequences of courses that will furnish the thorough professional training needed for the public service. Since most of our present political problems are economic in nature, the Department of Economics has a primary responsibility in training men and women for government work.

Agricultural Economics.—The work in agricultural economics has been established as a department in the College of Agriculture. The courses listed below in Group II also carry regular credit in the College of Letters and Science. The Department prepares its students for positions as teachers and research workers in the field of agricultural economics, for positions in agricultural marketing, and for practical work as farm managers. Inquiries may be directed to Professor B. H. Hibbard.

Description of Courses

Courses 1–100 are open to undergraduates and carry no graduate credit.

Courses 101–199 are open to both graduates and undergraduates.

Courses 200–299 are open only to graduates.

I. GENERAL ECONOMICS

1a. Elements of Economics. I or II; 4 cr. Economic struggle, production, value and distribution, labor in industry. Mr. Kiekhofer, Mr. Dennison, Mr. Groves, Mr. Haake, Mr. Hertzler, Mr. Krueger, Mr. McKay, Mr. Mertzke, Mr. Miller, Mr. Morehouse, Mr. Olson, Mr. Sharp, Mr. Whyte.

1b. Elements of Economics. I or II; 4 cr. Exchange, consumption, public finance, economic policies. Prerequisite: Economics 1a. Mr. Kiekhofer, Mr. Haake, Mr. Hertzler, Mr. Krueger, Mr. McKay, Mr. Mertzke, Mr. Miller.

101. Advanced Economics. I; 2 cr. Open to majors in economics but intended primarily for M. A. and Ph. D. candidates. Mr. Kiekhofer.

120. Evolution of Industrial Society. II; 3 cr. Prerequisite: Economics 1a. Mr. Ely, Mr. Perlman.

200. [1] The Classical Economists. I; 3 cr.; II; 1 cr. Prerequisites: Economics 1a and 1b or equivalent. (Given 1919–20.) Mr. Scott.

201. [1] Critics of the Classical Economists. I; 3 cr.; II; 1 cr. Prerequisites: Economics 1a and 1b or equivalent. (Given 1920–21.) Mr. Scott.

202. [1] The Austrian School and Recent Developments. I; 3 cr.; II; 1 cr. Prerequisites: Economics 1a and 1b or equivalent. (Given 1921–22.) Mr. Scott.

210. [2] Value and Valuation—Legal Theories. Yr.; 2 cr. (Given 1919–20.) Mr. Commons.

211. [2] Value and Valuation—Economic Theories. Yr.; 2 cr. (Given 1920–21.) Mr. Commons.

212. [2] Value and Valuation—Administration. Yr.; 2 cr. (Given 1921–22.) Mr. Commons.

220. [3] Property and Contract; Vested Rights and Personal Conditions—Distribution of Wealth. II; 3 cr. Mr. Ely, Mr. Perlman.

221. [3] Land Economics. II; 3 cr. (Given 1919–20.) Mr. Ely.

222. [3] Custom and Competition—Distribution of Wealth. II; 3 cr. Mr. Ely.

223. [3] Monopolies and Trusts—Distribution of Wealth. II; 3 cr. Mr. Ely.

267. Round Table in Economic Theory. Yr.; 2 cr. Prerequisite: one year of graduate work. Mr. Ely.

II. AGRICULTURAL ECONOMICS

25. Rural Life. II; 2 cr. Mr. Brown.

128. Cooperation and Marketing. II; 3 cr. Prerequisite: Economics 1a. Mr. Macklin.

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[1] Courses 200, 201, 202 constitute a three-year cycle, one being given each year.

[2] Courses 210, 211, 212 constitute a three-year cycle, one being given each year.

[3] Courses 220, 221, 222, 223 constitute a four-year cycle, one being given each year.

224. The Premises of Agricultural Economics. I; 2 cr. Mr. Hibbard.

225. Rural Social Organization. I; 2 cr.

226. Land Problems. Yr.; 2 cr. Mr. Ely, Mr. Hibbard.

227. Economic History of Agriculture. II; 2 cr. Mr. Hibbard.

III. ACCOUNTING

***8a, 8b. The Elements of Accounting.** Yr.; 2 cr. Mr. Elwell, Mr. McMurry, Mr. Gibson.

181. Theory and Practice of Accounting. I; 2 cr. Prerequisite: Economics 8a, 8b. Mr. Elwell, Mr. McMurry, Mr. Gibson.

182. Cost Accounting. II; 2 cr. Prerequisite: Economics 181. Mr. Elwell, Mr. McMurry, Mr. Gibson.

183. Advanced Accounting Problems. I; 2 cr. Prerequisite: Economics 181. Mr. McMurry.

184. Auditing. II; 2 cr. Prerequisite: Economics 181. Mr. McMurry.

186. Accounting Systems. I; 2 cr. Prerequisites: Economics 181 and 182. Mr. Elwell.

187. Governmental Accounting. II; 1 cr. Prerequisites: Economics 181 and 182. Mr. Elwell.

IV. BUSINESS ADMINISTRATION AND COMMERCIAL LAW

***11. Fundamentals of Management.** I; 2 cr. Prerequisite: Economics 1a. Mr. Haake.

***12. Credits and Collections.** II; 2 cr. Prerequisites: Economics 1a, 5 and 11. Mr. Haake.

***13. Marketing Methods.** I; 2 cr. Prerequisite: junior standing. Mr. Gardner, Mr. Moffat.

***14. Sales Administration.** II; 2 cr. Prerequisite: Economics 13. Mr. Gardner, Mr. Moffat.

****15. Retail Advertising.** I; 2 cr. Prerequisites: Philosophy 119 and English 4. Mr. Gardner, Mr. Moffat.

****16. Advertising Campaigns.** II; 2 cr. Prerequisites: Economics 13 and 15. Mr. Gardner, Mr. Moffat.

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*In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation, except by students in the Course in Commerce.

**In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation except by students in the Course in Commerce, and the Course in Journalism majoring in advertising.

*195. **Development of Commercial Organizations.** I; 2 cr. Prerequisite: junior standing.

*196. **Chamber of Commerce Problems.** II; 2 cr. Prerequisite: junior standing.

109a. **Commercial Law (Elements).** I; 4 cr. Prerequisite: senior standing or consent of instructor. Mr. Gilman.

109b. **Commercial Law (Corporations).** II; 4 cr. Prerequisite: Economics 109a. Mr. Gilman.

V. ECONOMIC POLICIES AND ADMINISTRATION

125. **International Commercial Policies.** II; 3 cr. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 155. Mr. Kiekhofer.

155. **Industrial Policies.** II; 3 cr. The control of industry from within and without. Prerequisites: Economics 1a and 1b. Given in alternate years with Economics 125. Mr. Kiekhofer.

VI. INSURANCE

121. **Industrial Insurance.** I; 2 cr. Prerequisite: Economics 1a.

138. **Insurance Economics.** I; 3 cr. This course should precede Mathematics 124. Prerequisite: Economics 1a. Mr. Anderson.

238. **Seminary in Insurance.** Yr.; 2 cr. Prerequisite: Economics 1a. Mr. Anderson.

VII. LABOR

122. **Labor Problems.** I; 3 cr. Prerequisites: Economics 1a and 1b or equivalents. Given in alternate years with Economics 123. (Given 1919–20.) Mr. Commons, Mr. Sharp.

123. **Labor Legislation.** I; 3 cr. Prerequisites: Economics 1a and 1b or equivalents. Given in alternate years with Economics 122. (Given 1920–21.) Mr. Commons.

145. **American Labor History.** II; 3 cr. Prerequisites: Economics 1a and 1b or equivalents. Given in alternate years with Economics 146. (Given 1920–21.) Mr. Commons.

146. **Labor History and Socialism.** II; 3 cr. Prerequisites: Economics 1a and 1b or equivalents. Given in alternate years with Economics 145. (Given 1919–20.) Mr. Commons, Mr. Sharp.

*In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation, except by students in the Course in Commerce.

171. Industrial Americanization. II; 3 cr. Prerequisites: junior standing and Economics 1 or History 4 or Political Science 7 or Education 41. Mr. Lescohier.

265. Seminary in Labor and Industry. Yr.; 2 cr. Mr. Commons.

VIII. MONEY, BANKING AND FINANCE

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott, Mr. Haake, Mr. McKay, Mr. Olson.

133. Financial History of the United States. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5. Given in alternate years with Economics 134. (Given 1920–21.) Mr. Scott.

134. The Money Market. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5. Given in alternate years with Economics 133. (Given 1919–20.) Mr. Scott.

137. Corporation Finance. I; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5. Mr. Gilman.

110. Investments. II; 2 cr. Prerequisites: A minimum grade of 80 in Economics 137 and senior standing. Mr. Gilman.

185. Analysis of Financial Reports. Yr.; 1 cr. Prerequisites: Minimum grades of "good" in Economics 137 and 181, senior standing and consent of instructor. Mr. Gilman.

IX. PUBLIC FINANCE

3. Elements of Public Finance. I; 3 cr. Prerequisite: Economics 1a. Mr. Jerome.

124. Taxation. II; 3 cr. Prerequisite: Economics 1a. Mr. Jerome.

257. Seminary in Taxation. Yr.; 2 cr. Prerequisite: training in public finance. Mr. Jerome.

X. PUBLIC UTILITIES

142a. Public Utilities. I; 2 cr. Economic and legal aspects of public service enterprise. Prerequisite: Economics 1a. Mr. Hess.

142b. Public Utilities. II; 2 cr. Contemporary problems of regulation. Prerequisite: Economics 142a. Mr. Hess, Mr. Glaeser.

135. Railway Transportation. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Miller, Mr. Whyte.

136. Railway Problems. I or II; 3 cr. Prerequisite: Economics 135. Mr. Miller, Mr. Whyte.

266. Seminary in Public Utilities. Yr.; 2 cr. Prerequisites: Economics 142a, 142b, or equivalents. Mr. Hess.

XI. SOCIOLOGY

4. Social Problems. II; 3 cr. Mr. Ross, Mr. Perlman.

139. Social Psychology. I; 3 cr. Prerequisite: junior standing. Mr. Ross, Mr. Perlman.

140. General Sociology. II; 3 cr. Prerequisite: Economics 1a or senior standing. Mr. Ross, Mr. Perlman.

148. Social Movements in Russia. I; 2 cr. Prerequisite: Economics 1a. Mr. Perlman.

46. Social Origins. Yr.; 2 cr. Mr. Gillin, Mr. Kolb.

141. Poverty and Relief. I; 3 cr. Prerequisites: Economics 1a, 46, and junior standing. Given in alternate years with Economics 161. (Given 1920–21.) Mr. Gillin.

161. Criminology and Penology. I; 3 cr. Prerequisites: Economics 1a, 46, and junior standing. Given in alternate years with Economics 141. (Given 1919–20.) Mr. Gillin, Mr. Kolb.

147. Methods of Social Service. II; 2 cr. Prerequisites: Economics 1a, 46, and junior standing. Given in alternate years with Economics 165. (Given 1919–20.) Mr. Gillin.

165. Principles of Social Case Work. II; 2 cr. Prerequisites: Economics 1a, 46, and junior standing. Given in alternate years with Economics 147. (Given 1920–21.) Mr. Gillin.

170. Americanization. I; 3 cr. Prerequisites: junior standing and Economics 1 or History 4 or Political Science 7 or Education 41. Mr. Lescohier.

172. The American People. Yr.; 3 cr. A study of the racial elements of the American people. Prerequisites: junior standing and Economics 1 or History 4 or Political Science 7 or Education 41. Mr. Lescohier.

258. [1]Degeneracy and Society. I; 2 cr. (Given 1919–20.) Mr. Gillin.

259. [1]Development of Poor Law Policy. I; 2 cr. (Given 1920–21.) Mr. Gillin.

256. [1]Development of Correctional Policies. I; 2 cr. (Given 1921–22.) Mr. Gillin.

255. Research Seminary. II; 2 cr. The field of investigation selected for 1921 is Social Legislation. Mr. Gillin.

263. Seminary on the Dynamics of Population. I; 2 cr. (Given 1920–21.) Mr. Ross.

262. Seminary on the American Family. I; 2 cr. (Given 1921–22.) Mr. Ross.

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[1] Courses 258, 259, 256 constitute a three-year cycle, one being given each year.

260. Seminary on the Demography and Sociology of Cities. I; 2 cr. (Given 1919–20.) Mr. Ross.

261. Research Seminary. II; 2 cr. The field of investigation selected for 1920 is Social Classes and Their Relations. Mr. Ross.

Students majoring in sociology may include in the list of courses accepted for a major in sociology: Economics 25, Rural Life (See Group II. Agricultural Economics). City Planning 101, 102 and 103 are recommended but must be taken in addition to work required in this department.

XII. STATISTICS

130a. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Hess, Mr. Dennison, Mr. Krueger, Mr. Mertzke.

130b. Economic Statistics. II; 3 cr. Prerequisite: Economics 130a. Mr. Hess.

131. Prices, Wages, and Cost of Living. II; 3 cr. Prerequisites: Economics 1a, 130a. Mr. Hess.

XIII. SENIOR THESIS SEMINARIES

100. Senior Thesis Seminaries.

A. Labor. Mr. Commons et al.
B. Accounting Problems. Mr. Elwell.
C. Problems in Advertising and Marketing. Mr. Gardner.
D. Red Cross Home Service. Mr. Gillin.
E. Analysis of Financial Reports. Mr. Gilman.
F. Business Administration. Mr. Haake.
G. Public Utilities and Statistics. Mr. Hess.
H. Americanization. Mr. Lescohier.
I. Transportation. Mr. Miller.
J. Professionalization. Mr. Ross.
K. Private Finance. Mr. Scott.

EDUCATION

PROFESSORS HENMON (CHAIRMAN), O'SHEA; ACTING PROFESSOR ROBINSON; ASSOCIATE PROFESSORS CHASE, CLAPP, STARCH*; ASSISTANT PROFESSORS T. LLOYD JONES, MILLER; INSTRUCTOR HOYT; ASSISTANTS MUELLER, SPARKS, TOWNLEY.

LECTURERS, DR. FITZPATRICK, MR. MCINTIRE.

The chief aim of this department is to treat the history, foundations, and practices of education in the spirit of contemporary

*On leave of absence, 1919–20.

thought. To this end courses are offered in each of the following groups: (1) History of education; (2) Principles of education and mental development in the child and in the race; (3) Educational psychology; (4) Organization, administration, and supervision of education; (5) Educational practice under supervision.

Seminary and research courses in each of the main divisions of education are offered.

Students below the junior class are not admitted to any course in education except upon the written permission of the instructor in charge. This permission will be granted only to mature students and to students properly prepared who are under the necessity of leaving the University, before graduation, to enter teaching.

Courses 1, 6, 11, 31, 41, 90 and A are regarded as elementary, and as introductory to the advanced courses given in the department. These courses, except course 1, are not open for election by graduates of normal schools without special action by the department.

Major in Education

Undergraduate students selecting education as a major subject are required to obtain credit in approved courses amounting to twenty-two hours, including the thesis. Graduate students selecting education as a major will be expected to show familiarity with the general aspects of each of the divisions of education before they will be admitted to candidacy for either a master's or a doctor's degree.

Master's Degree—Summer Session and In Absentia Work

All candidates for the degree of Master of Arts or the degree of Master of Philosophy, fulfilling the general University requirements therefor by study during the summer sessions and *in absentia*, and presenting Education as a major subject, must comply with the following special requirements:

(1) Ordinarily, three summer sessions in residence at this University, in addition to *in absentia* work, are required.

(2) Candidates who have not already satisfactorily completed courses in Psychology and Education equivalent to the existing requirements for the University Teachers Certificate will be required to devote at least four summer sessions, together with *in absentia* work, to the fulfillment of the requirements.

(3) All candidates must pass satisfactory examinations in the four divisions of Education: (a) The History of Education; (b) The Principles of Education and Mental Development; (c) Educational

Psychology; (d) Educational Organization, Supervision and Administration. Each year, in the month of June, during the period of *in absentia* study, every candidate must pass an examination in at least one of these divisions. The reading required for these examinations is listed in a special department circular.

(4) Each candidate must prepare a thesis presenting the result of original work. The thesis must be begun during the first year of *in absentia* study, and each summer, during the period of *in absentia* study, a satisfactory report must be made thereon to the instructor under whom it is being prepared. The thesis must be completed during the last summer of residence study.

(5) Each candidate must have an adviser in the division in which his thesis is being prepared. Each summer this adviser must approve the candidate's program of residence and *in absentia* study.

(6) Each candidate must earn at least four credits in graduate courses in Education during each summer of residence study.

(7) At the opening of each summer session every candidate should secure the approval of the Dean of the Graduate School for his proposed course of study.

University Teachers Certificate

The requirements for the University Teachers Certificate will be found on p. 238.

For Undergraduates

1. History of Modern Education. I or II; 2 or 3 cr. (Omitted 1919–20.)

6. Public Education. I or II; 2 or 3 cr. Mr. Clapp.

11. Mental Development. I or II; 2 or 3 cr. Mr. O'Shea.

31. Principles of Education. I or II; 3 cr. Mr. Robinson.

41. Educational Psychology. I or II; 2 or 3 cr. Prerequisite: psychology (Philosophy 1). Mr. Henmon, Mr. McIntire.

90. Technique of Instruction. I or II; 2 cr. Prerequisite: Education 31. Mr. Robinson.

A. Educational Practice. I or II; 2 cr. Open only to seniors and graduate students qualifying for the University Teachers Certificate. Mr. Miller.

For Undergraduates and Graduates

102. History of Ancient and Medieval Education. II; 3 cr. Prerequisite: Education 1 or equivalent. Mr. Chase.

103. History of American Education. II; 2 cr. Prerequisite: Education 1 or equivalent. (Omitted 1919–20.)

104. State School Systems. I; 3 cr. Prerequisites: Education 1 or 6, and one other elementary course in education. Mr. Clapp.

107. School Surveys. II; 2 cr. Prerequisite: Education 104 or equivalent. Mr. Clapp.

108. High School Organization. II; 2 cr. (Omitted 1919–20.) Mr. Miller.

110. Administration and Supervision of Education. II; 3 cr. Prerequisite: Education 104 or equivalent. Mr. Clapp.

112. Social Development. I or II; 2 or 3 cr. Mr. O'Shea.

113. Principles of American Education. I or II; 2 or 3 cr. Mr. O'Shea.

142. Experiments in Educational Psychology. I or II; 1 or 2 cr. Prerequisites: Education 41 and one other elementary course in education. (Omitted 1919–20.) Mr. Starch.

144. Advanced Educational Psychology. Yr.; may be elected by semesters; 2 cr. Prerequisites: Education 41 and one other elementary course in education. Mr. Henmon.

145. Educational Measurements. I; 2 cr. Prerequisites: Education 41 and 142, or equivalents. (Omitted 1919–20.) Mr. Starch.

Vocational Education and Guidance. (See Manual Arts 113.) II; 2 cr. Mr. Crawshaw.

For Graduates

The following courses are open to graduate students and to normal school graduates of senior standing majoring in education.

205. European School Systems. I; 2 cr. Prerequisites: Education 6 and 104, or equivalents. (Omitted 1919–20.) Mr. Clapp.

216. Contemporary Educational Movements. I; 2 cr. Prerequisite: Education 103 or equivalent. (Omitted 1919–20.)

218. History of Modern European Education. II; 2 cr. Prerequisites: Education 103 or equivalent. (Omitted 1919–20.)

220. Seminary in Education. Yr.; 1 or 2 cr. Prerequisite: any two courses in education. Mr. O'Shea.

231. Seminary in Administration and Supervision of Education. Yr.; 1 or 2 cr. Prerequisite: Education 104 or 105, or equivalent. Mr. Clapp.

244. Mental Tests. Yr.; 2 cr. Prerequisites: Education 41 and 142, or equivalents. (Omitted 1919–20.) Mr. Starch.

246. Experimental Education. I; 2 cr. Prerequisites: Education 41 and 142, or equivalents. (Omitted 1919–20.) Mr. Henmon.

248. Seminary in Educational Psychology. Yr.; 1 or 2 cr. Prerequisites: Education 41 and 142, or equivalents. Mr. Henmon, Mr. Starch.

251. Seminary in Public School Administration. Yr.; 1 or 2 cr. Mr. Fitzpatrick.

ENGLISH

Professors Hubbard, Young (chairman); Associate Professors Cairns, O. J. Campbell, Dodge, Gardner, Lathrop, Manchester, Pyre, Roe; Assistant Professors Bair, Beatty, Leonard, Nardin, Taylor; Instructors Alderman, Babcock, Batchelor, Beattie, Burgevin, Callahan, Cunningham, Dooley, Eimer, Feldman, Fernberg, Fisher, Friedman, Glicksman, Harkness, Howell, Huegel, Kelsey, McCloskey, Mix, Morgan, Roberts, Rogers, Scallon, Schlicher, Schubert, Sheehan, Small, Tiffany, Willson; Assistants Bleyer, Brosius, H. Campbell, Galphin, Greene, Price, Reichert, Stearn, Tuttle, White, Winslow.

General Statement

The courses of the department are intended to serve five main purposes: (1) To train students in the use of English as a means of expression and communication for the ordinary demands of social, commercial, and professional life; (2) to continue that training to suit the special needs of those who intend to take up journalistic or literary work; (3) to develop the literary sympathy and appreciation and to extend the knowledge of those who find in English and American literature the readiest means of obtaining the advantages of a liberal education; (4) to prepare teachers of English for school and college work; (5) to fit students for and assist them in scholarly investigation. Most of the courses will be found to meet all these ends, directly or indirectly, but some are especially directed to one or two in particular. Every student is encouraged to select the courses most suited to his or her own needs, but certain courses are prescribed as necessary for adequate equipment in particular lines of work.

Undergraduate Courses

All students in the Colleges of Letters and Science, Engineering, and Agriculture are required to take Freshman English (Course 1 or its equivalent). The General Survey (Course 30) is prerequisite to the other literature courses, and is also recommended for

students who desire a general knowledge of English literature, but are unable to carry their study of the subject further.

Students taking English as an elective course outside the major study are advised to select courses mainly from the undergraduate group. Those who make English their major study, after providing for the required courses, may choose at will from this or the following group (for undergraduates and graduates).

English as a Major Study

Students intending to choose English as their major study are strongly recommended to take General Survey (30) in their sophomore year.

At the beginning of the year in which they decide upon their major subject they should consult the chairman of the department, who will assign them to an adviser. They are required to take twenty-four credits as a minimum, exclusive of the thesis and of course 1 (required of all students). The twenty-four credits must include course 30 (6 credits) and one course from each of the following groups: (a) 36 or 137; (b) 34, 35, or 40; (c) 31, 157, 158, 159, or 160.

A total of thirty-six credits, in addition to the thesis and course 1, may be elected in this department.

Candidates for the degree of Ph. B. choosing English as their major subject are required to fulfill the same conditions as obtain for the B. A. degree.

For Teachers

The requirements for the teachers certificate for those electing English as their major or minor will be found on p. 239.

Library Work

Students who take the joint course arranged at the University and State Library School may find it to their advantage to choose English as their major study. Of the twenty hours of library work for which credit is given by the University four may be counted towards an English major if the candidate so desires, reducing the minimum departmental requirement to twenty credits (exclusive of the thesis and course 1). In addition to courses 1 and 30, which are required of all, library students are recommended to select courses of a more general character from the group primarily for undergraduates, especially 34, 35, 36 or 137, 39, 40. For detailed information in regard to preparation for library work, see Index

under Library Training and a special bulletin entitled, "Courses in Library Training."

The M. A. Degree

Candidates for the degree of master of arts who intend to take one-half or more of their work in English should consult the chairman of the department as to the courses most suitable to their purpose. They are required to show that they have had sufficient preliminary training in English language and literature to undertake graduate work, or to complete such preliminary training in addition to the graduate work required; if they have not taken an undergraduate course in the English language, they will be required to take at least three credits in that subject, but this requirement may be satisfied by an adequate training in Greek and Latin. They are expected to take at least two unit hours each semester from the courses restricted to graduates.

M. A. in Absentia

The advanced study required for the M. A. *in absentia* in this department consists of two graduate courses taken in each of three consecutive summer sessions, with work done in continuation of one of the two courses each year. Particulars may be obtained from the chairman, Department of English.

The Doctor's Degree

Special requirements for the doctor's degree (English major) are:

1. The general history of English literature.
2. Anglo-Saxon and Middle English.
3. Special knowledge of the particular field chosen for study.
4. Reasonable acquaintance with the political and social history of the period.
5. Auxiliary studies, varying according to the particular field chosen. For example: for the sixteenth century, Latin, Italian, German, and French; for the classical period, Latin and French; for the romantic period, and for the nineteenth century, French and German.
6. A thesis and examination.

RHETORIC AND COMPOSITION

For Undergraduates

A. English Composition. For students who have failed to pass the test prescribed on page 90. Three hours a week; no undergraduate credit. Miss Scallon and staff.

1a. Freshman English. I or II; 3 cr. Required of freshmen in the Colleges of Agriculture and Engineering, and of freshmen in the College of Letters and Science who do not take English 12a (see below). Mr. Manchester and staff.

1b. Freshman English. I or II; 3 cr. Continuation of 1a. Required of freshmen in the College of Agriculture and Engineering, and of freshmen in the College of Letters and Science who do not take English 12b (see below). On the completion of this course, a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. Mr. Manchester and staff.

1c. Freshman English. I; 2 cr. Similar to 1b. Designed for students needing only two additional credits in Freshman English to complete the university requirement in English composition. (Not given after the year 1919–20.) Mr. Manchester and staff.

12a. Freshman Rhetoric. I; 5 cr. Required of those freshmen looking forward to the degree Ph. B., General Course, who do not take foreign language in their freshman year. Mr. Lathrop.

12b. Freshman Rhetoric. II; 5 cr. Continuation of 12a; required of the same category of students. On the completion of course 12b a provisional pass mark is given; if subsequently a student is reported deficient or careless in English composition, he may be required to take additional work in that subject. Mr. Lathrop.

2. Sophomore Composition. Yr.; 2 cr. Open to students who have passed English 1b or 12b. Mr. Taylor and staff.

3a. Argumentation. I; 3 cr. Lectures, textbook, practice exercises. Prerequisite: English 1b or 12b. Mr. O'Neill.

3b. Argumentative Addresses. II; 2 cr. Mr. O'Neill.

4. Commercial Correspondence. II; 2 cr. Taken for credit only by students in a technical course, by seniors preparing to teach the subject, and by students who have taken one semester of English 2. Mr. Gardner and staff.

11. Advanced Commercial Composition. I; 2 cr. Prerequisite: good work in English 4. Taken for credit only as part of a technical course. (Omitted 1919–20.) Mr. Gardner.

5. Junior Composition. Yr.; 2 cr. Prerequisite: a grade of 85 or over in English 1b or 12b, or credit in English 2. Mr. Harkness.

6. Advanced Composition. Yr.; 3 cr. Elective for juniors and seniors. Mr. Dodge.

107. Narration. Yr.; 2 cr. Open to juniors and seniors who have taken one composition course in advance of English 1b or 12b. (Omitted 1919–20.) Mr. Cairns.

108. Dramatic Writing. Yr.; 2 cr. As a prerequisite to admission, candidates are expected to submit an acceptable scenario. (Omitted 1919–20.)

9. Technical Composition. II; 3 cr. Elective for juniors and seniors in Engineering who have had English 1b. (Omitted 1919–20.)

For Graduates

217. The Teaching of Freshman English. II; 2 cr. (Omitted 1919–20.)

ENGLISH LANGUAGE AND LITERATURE

The insertion of CL after a course number indicates that the course belongs also to Comparative Literature.

For Undergraduates

25. The English Language. I; 3 cr. Open to sophomores' juniors, and seniors. Mr. Hubbard.

30. General Survey. Yr.; 3 cr. Prerequisite to all courses in English literature; required of sophomores taking English as their major, and recommended to students desiring a single course in English literature. Mr. Leonard, Mr. Pyre (chairman of conference), Mr. Roe, Mr. Taylor, Mr. Young, and staff.

31. Chaucer. I; 3 cr. Mr. Beatty.

32. The Study of Literature. Yr.; 3 cr. Not counted toward the English major. Mr. Gardner.

34. The Romantic Movement. I; 3 cr. Mr. Campbell, Mr. Beattie.

35. The Victorian Era. II; 3 cr. A continuation of 34. Mr. Campbell, Mr. Beattie.

36. Elizabethan Drama. Yr.; 3 cr. Mr. Pyre.

38. Prose Style. Yr.; 2 cr. Mr. Taylor.

39. The Novel. Yr.; 2 cr. Mr. Lathrop.

40. American Literature. Yr.; 2 cr. The course should be preceded or accompanied by English 30. Mr. Cairns, Mr. Harkness.

48. The Literary Aspects of the English Bible. I; 3 cr. Mr. Lathrop.

54. Carlyle and Ruskin. I; 3 cr. Mr. Roe.

55. Emerson and Arnold. II; 3 cr. Mr. Roe.

90a. The Teaching of English. I; 2 cr. Mr. Bair.

90b. The Teaching of English. II; 2 cr. Mr. Bair.

Observation of teaching is required in each course. 90a and 90b are required of all candidates for the teachers certificate (English major); an advanced composition course (to be taken in the sophomore or junior year) and 90a are required of all candidates for the minor teachers certificate in English.

For Undergraduates and Graduates

102CL. Renaissance Epic. II; 2 cr. (Omitted 1919–20.) Mr. Dodge.

120a. Anglo-Saxon. I; 3 cr. Mr. Hubbard, Mr. Leonard.

120b. Middle English. II; 3 cr. A continuation of course 120a. Mr. Leonard.

121. Anglo-Saxon Poetry. I; 3 cr. (Omitted 1919–20.)

122. Beowulf. II; 3 cr. Open to seniors. Mr. Hubbard.

123. Modern English Grammar. II; 2 cr. Mr. Hubbard.

137. Shakspere. Yr.; 3 cr. Mr. Young, Mr. Roberts.

141. Tennyson. II; 2 cr. Mr. Beatty.

142. Versification. II; 2 cr. Mr. Pyre.

143. English Essayists. II; 2 cr. (Omitted 1919–20.) Mr. Taylor.

144. Wordsworth. II; 3 cr. Mr. Beatty.

145. Browning. I; 2 cr. Mr. Pyre.

146CL. The Ballad. I; 2 cr. Mr. Beatty.

149. Poe and Whitman. II; 3 cr. (Omitted 1919–20.) Mr. Cairns.

153. Philosophy in the English Poets. Yr.; 2 cr. Mr. Leonard.

156. Literary Criticism. II; 2 cr. (Omitted 1919–20.) Mr. Lathrop.

157. Milton. II; 2 cr. Mr. Dodge.

158. The Age of Dryden. II; 3 cr. (Omitted 1919–20.) Mr. Lathrop.

159. The Age of Pope. II; 3 cr. Mr. Lathrop.

160. Elizabethan Literature. I; 3 cr. Mr. Dodge.

161. Rhetoric. II; 2 or 3 cr. (Omitted 1919–20.) Mr. Lathrop.

166. Literary Criticism. Yr.; 3 cr. Mr. Manchester.

For Graduates

224. English Philology Seminary. Yr.; 2 cr. Mr. Hubbard.

231. Introductory Seminary in English Literature. Yr.; 2 cr. Subject for 1919–20, Shakspere. Mr. Young.

232. Introductory Seminary in English Literature. Yr.; 2 cr. (Omitted 1919–20.)

244. Seminary in English Literature. Yr.; 2 cr. Subject for 1919–20, Coleridge. Mr. Hubbard.

247. Seminary in American Literature. Yr.; 2 cr. Subject for 1919–20, Lowell and Emerson. Mr. Cairns.

FINE ARTS

PROFESSOR SHOWERMAN.

122. The Fine Arts. Yr.; 2 cr. (Given in 1918–19, and in alternate years.) Illustrated general survey of architecture, sculpture, and painting from classical antiquity to the present time.

FORESTRY

LECTURER TIEMAN.

For Undergraduates

1. Forestry and Utilization of Wood. I; 2 cr. See Forest Products Laboratory.

GEOLOGY

PROFESSORS LEITH (CHAIRMAN), MEAD, WHITBECK, WINCHELL; ASSOCIATE PROFESSORS FINCH, TWENHOFEL; ASSISTANT PROFESSORS LOBECK, STEIDTMANN, WILLIAMS; INSTRUCTORS BLANCHARD, LOFT; CURATOR THWAITES.

Course 1, General Geology, is the introductory course for students in geology as distinguished from physiography and geography for which course 4 is the introductory course. Students whose preparation does not include either physics or chemistry may enter course 1 by special arrangement with the instructor.

Students entering courses in mineralogy as a training in science should have a general knowledge of chemistry, at least equivalent to that derived from a high school course. No other preliminary courses are required.

Short courses in geology and mineralogy (2, 9, 7 and 8) are offered without prerequisites, except for elementary knowledge of chemistry, to students not intending to take further work in these subjects. Students who take these courses will be allowed to enter advanced courses only by special arrangements.

For major in physiography and geography (a) 23 or 24 credits in the Department of Geology, (b) either 2 credits in meteorology or 3 credits in astronomy, and (c) a thesis in geography (4 credits), are required, making 30 credits in all. In addition, part or all of 10 credits more are desirable, preferably made up from approved courses listed under geology, meteorology, political science, economics, soils, geography, history, and topographic engineering.

The requirements in geography in connection with the University School of Education are stated on page 242.

GENERAL GEOLOGY

For Undergraduates

1. General Geology. Yr.; 5 cr. Prerequisites: see above. Mr. Twenhofel.

2. Short Course in Geology. II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

9. Engineering Geology. I; 3 cr. A course in elementary geology for students in engineering, required of juniors in civil engineering. Mr. Mead.

11. Elementary Course in Mapping. II; 3 cr. Mr. Thwaites.

For Undergraduates and Graduates

122. Research. The amount of time allotted is subject to special arrangement.

125. Field Work for Advanced Students. II; 3 cr. One to three weeks in May are spent in geologic mapping of some selected area in iron or copper districts of Lake Superior or zinc district of Wisconsin. (Given in alternate years with course 118.) Mr. Leith, Mr. Mead. Special summer field courses are offered from time to time by the Department. Credit to be determined. See also course 131 in Physiography.

134. Regional Geology. I; 3 cr. (Given 1920–21 and in alternate years.) Mr. Twenhofel.

135. History of the Development of Geology. I; 2 cr. Prerequisite: course 1 or 4. (Given 1919–20 and in alternate years.) Mr. Twenhofel.

PHYSICAL GEOLOGY

For Undergraduates and Graduates

111. Geology of Mineral Resources. II; 5 cr. (Given 1919–20 and alternate years.) Prerequisites: Chemistry 1, Geology 6 or 7, and Geology 1. Mr. Leith, Mr. Mead.

113. Economic Aspects of Geology. I; 5 cr. (Given 1919–20 and alternate years.) Prerequisite: Geology 1 or 4. Mr. Leith.

114. Structural Geology. I; (a) Lectures, 2 cr. Mr. Leith; (b) Map interpretation and laboratory work, 3 cr. Mr. Mead. The two parts are closely related but may be taken independently.

115. Metamorphic Geology. Yr.; 3 cr. (Given 1920–21 and in alternate years.) Mr. Leith, Mr. Mead. Should be taken with course 141.

117. Principles of Pre-Cambrian Geology. II; 2 cr. Alternates with course 118. (Given 1920–21.) Mr. Leith.

118. Lake Superior Geology. II; 2 cr. At the close of the course in the spring, an excursion is made to points of geologic and economic interest in the Lake Superior country. (Given 1919–20 and in alternate years.) Mr. Leith, Mr. Mead.

123. Oil Geology. II; 2 cr. Prerequisite: Geology 1. (Given 1919–20 and in alternate years.) Mr. Twenhofel.

128. Lake Superior Iron Ore Exploration. II; 2 cr. Prerequisites: Descriptive Geometry and course 114, 117 or 118. (Given 1919–20 and in alternate years.) Mr. Mead.

133. Sedimentation. II; 5 cr. Mr. Twenhofel.

141. Metamorphic Laboratory. Yr.; 2 cr. Quantitative study of metamorphism, to be taken with course 115. Mr. Mead.

STRATIGRAPHY AND PALEONTOLOGY

For Undergraduates and Graduates

112. Historical Geology and Stratigraphy. I; 5 cr. (Given 1919–20 and in alternate years.) Prerequisites: Geology 1 and 121. Mr. Twenhofel. See also course 134, Regional Geology.

121. Paleontology. II; 5 cr. (Given 1920–21 and in alternate years.) Mr. Twenhofel.

MINERALOGY AND PETROLOGY

For Undergraduates

6. General Mineralogy. Yr.; 5 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Winchell.

7. Short Course in Mineralogy. I; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

8. Short Course in Petrology. II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Steidtmann.

For Undergraduates and Graduates

108. Petrology. Yr.; 5 cr. Prerequisite: course 6 or 7. Mr. Winchell.

119. Petrology of Lake Superior Rocks. Yr.; 3 cr. Prerequisite: course 108. (Given 1920–21 and in alternate years.) Mr. Winchell.

120. Advanced Mineralogy. Yr.; Prerequisite: course 6. Mr. Winchell.

124. Economic Mineralogy. II; 2 cr. Mr. Winchell.

129. Petrogeny. Yr.; 1 to 3 cr. Prerequisite: course 108. (Given 1919–20 and in alternate years.) Mr. Winchell.

138. Agricultural Mineralogy. II; 1 cr. Prerequisite: Chemistry 1 or equivalent. (Given 1919–20 and in alternate years.) Mr. Winchell.

PHYSIOGRAPHY AND GEOGRAPHY

For Undergraduates

3. Laboratory Course in Geography. Yr.; 2 cr. Part of Geology 4. Prerequisite: Geology 1, 4 or 5c. Miss Loft.

4. Physiography and Geography. Yr.; 5 cr. No prerequisites. Mr. Whitbeck and staff.

5c. Geography for Commerce Students. Yr.; 3 cr. Mr. Finch, Mr. Williams, Mr. Lobeck, and staff.

10. Applied Physiography. II; 3 cr. (1920–21 and in alternate years.) No prerequisites. Mr. Lobeck.

For Undergraduates and Graduates

90. The Teaching of High School Geography. Yr.; 2 cr. First semester not prerequisite to second semester. Prerequisite: Geology 4. Miss Loft.

101. Geography of Europe. I; 3 cr. Mr. Whitbeck.

102. Geography of South America. II; 2 cr. Mr. Whitbeck.

103. Geography of North America. I; 3 cr. (Given in 1920–21 and in alternate years.) Mr. Williams.

104. Geography of Wisconsin. II; 3 cr. Mr. Williams or Mr. Blanchard.

105. Overseas Commerce. I; 3 cr. Prerequisite: course 4 or 5c. Mr. Finch.

106. Agricultural Geography. II; 3 cr. Mr. Finch.

107. Influence of Geography on American History. I; 3 cr. (Given 1919–20 and in alternate years.) Mr. Williams.

109. Advanced Physiography. II; 3 cr. Prerequisite: Geology 1, 4 or 5c. (Given in 1920–21 and alternate years.) Mr. Lobeck.

122. Geographic Research. Time and credit subject to arrangement.

126. Maps for Geographic Teaching. II; 1 cr. (Given in 1920–21 and in alternate years.) Mr. Finch.

127. Advanced Economic Geography. I; 3 cr. For intending teachers and advanced students. Prerequisite: course 4 or 5c. (Given in 1920–21 and in alternate years.) Mr. Blanchard.

130. Physiography of the United States. Yr.; 3 or 4 cr. Mr. Lobeck.

131. Summer Field Course in Physiography and Geology. 4 to 6 cr. During August, 4 weeks. Limited to 20 students. Not given for less than 12 students. Cost, including living expenses and tuition, about $85. Mr. Williams.

132. Geographical Seminary. Yr.; 2 cr. Mr. Whitbeck.

136. Human Evolution and Migrations. II; 2 cr. (Given in 1920–21 and in alternate years.) Mr. Twenhofel, Mr. Whitbeck.

137. The Graphic Presentation of Physiographic Material. I; 2 cr. (Given in 1920–21 and in alternate years.) Mr. Lobeck.

GERMAN

PROFESSORS HOHLFELD (CHAIRMAN), VOSS; ASSOCIATE PROFESSORS GOODNIGHT, KIND*, ROEDDER; ASSISTANT PROFESSORS BRUNS, HAERTEL, KELLER*, MORGAN, STERLING; INSTRUCTOR HOLLANDER*.

The courses in German are organized as follows:

I. The elementary courses represent the work normally done in the first and second year, and are graded to meet the needs of high

school graduates with different degrees of preparation. Freshmen with four years of high school German are not allowed to enter any of these elementary courses. They are eligible to the advanced practice courses and the literary courses in Group A, and can thus elect two, three, or four hour programs in German. Students who possess a thorough, practical knowledge of German considerably in advance of what their high school work indicates, should present themselves for an informal examination with a view to being assigned to more advanced classes. Credit for the omitted lower work will, however, be granted only in exceptional cases, regulated by special rules of the Faculty, and never without a formal examination.

II. The advanced practice courses are intended for specific practical ends, definitely stated in each case. None of these courses is required of students wishing to study German chiefly for its literature.

III. The literary courses are of very different degrees of advancement, those from 241 to 248 not being open to undergraduate students. The less advanced courses are divided into two groups designated A and B. Ordinarily students may not enter group B unless they have taken at least one course in group A, or its equivalent. Generally, about twelve credits in these two groups combined will be adequate preparation for the more advanced work in literature as well as for the more elementary courses in philology. Students intending to specialize in German literature are advised to do related work in English literature, in medieval and modern history, and in philosophy. They should also pursue, to a fair degree of advancement, the study of at least one other foreign language and literature, ancient or modern. Their attention is also called to the courses mentioned under Comparative Literature.

IV. The courses from 150 to 155, and from 263 to 270, are devoted to work in German philology. While most of these courses are intended for graduate students working for a higher degree in German, some of them are well suited to the needs of advanced undergraduates. This is especially true of courses 150, 151 and 152, all of which are so conducted as to be of direct benefit to properly qualified seniors.

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*On leave of absence, 1919–20.

Major in German †

Students electing German as their major study are required to offer, in addition to the thesis, a total of at least twenty-four credits in advance of course 1b, or an equivalent. Not less than four of these credits should represent class work in advance of course 100. Candidates preparing to teach German as their major subject are required to take the following courses: 10 or 112, 90a and 90b, 130 or 131, 150 and 151.

As to the maximum number of credits which students may elect in German, the following rules apply in accordance with the general statement under "electives." Students beginning their university work in German 1a, 1b, or 2a may take up to forty-six credits, those entering 2b up to forty-three credits, those entering higher classes may not exceed forty credits.

Minor in German†

Students preparing to teach, with German as their minor, will be required to complete courses 10 or 112, 90a, and at least four credits in Group B, or 130 or 131.

ELEMENTARY COURSES

For Undergraduates

1a. Beginners' German. I or II; 4 cr. Mr. Morgan, Miss Sterling, Mr. Roedder.

1b. Second Semester German. I or II; 4 cr. Prerequisite: course 1a, or one year of high school German. Miss Ernst, Mr. Roedder.

2a. Third Semester German. I or II; 4 cr. Prerequisite: course 1b, or two years of high school German. Mr. Bruns, Mr. Morgan, Miss Sterling, Mr. Voss.

2b. Fourth Semester German. I or II; 4 cr. Prerequisite: course 2a, or three years of high school German. Students completing course 2b in the first semester should elect course 3 in the second semester. Miss Sterling.

† Students who are preparing to teach German as their major or minor subject, and have done a considerable amount of work elsewhere or have had successful teaching experience, may be excused, by action of the department, from some of the required work. Such excuse will generally be granted only on the basis of an examination, and in no case will students be recommended by the department unless they have taken at least four credits of work in the department.

ADVANCED PRACTICE COURSES

For Undergraduates

3Sc. Scientific German. Yr.; 2 cr. For students specializing in science. Prerequisite: course 2b or equivalent. Mr. Voss, Miss Sterling.

3C. Commercial German. Yr.; 2 cr. For students in the Course in Commerce. Prerequisite: course 2b or equivalent. (Omitted 1919–20.) Mr. Roedder.

11. Journalistic German. Yr.; 1 cr. (2 hrs.) Prerequisite: course 2b or equivalent. (Omitted 1919–20.) Mr. Haertel.

40. Elementary Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: course 2b or equivalent. Mr. Voss.

41. Intermediate Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: four credits in advance of course 2b, or sufficient ability in speaking German. Mr. Hohlfeld.

10. Composition and Conversation. Yr.; 2 cr. Prerequisite: four credits in advance of course 2b. Mr. Roedder.

90a. Teachers Course for Majors. I; 2 cr. For seniors and graduates. Mr. Morgan.

90b. Teachers Course for Majors. II; 2 cr. Phonetics. For seniors and graduates. Mr. Morgan.

For Undergraduates and Graduates

112. Advanced Practice in Speaking and Writing German. Yr.; 2 cr. For advanced students specializing in German. More advanced than course 10, though ordinarily students should take only one of the two courses. (Omitted 1919–20.) Mr. Bruns.

LECTURE COURSES

29. Survey of German Painting and Sculpture of the Nineteenth Century. II; 1 or 2 cr. (2 hrs.) Not open to freshmen. Knowledge of German not required. (Omitted 1919–20.) Miss Sterling.

30. Germany and its Institutions. II; 1 or 2 cr. (2 hrs.) (Omitted 1919–20.) Mr. Haertel.

Courses 29 and 30 are given in English and do not require a knowledge of German. They do not count toward the minimum requirement for a major, nor toward the language requirement, unless taken for two credits, with outside reading in German.

GERMAN LITERATURE

For Undergraduates

GROUP A

These courses are primarily intended for students who have had course 2b, or its equivalent. Students having had more than four credits in advance of course 2b will be required to do additional work to receive full credit.

3. Selected Masterpieces. II; 4 cr. Prerequisite: course 2b, or four years of high school German. Miss Sterling.

15. Classical and Modern Writers. Yr.; 3 cr. Not open to students who have had course 3. Mr. Morgan.

17. Modern German Drama and Novel. Yr.; 3 cr. A rapid reading course. (Omitted 1919–20.)

20. Schiller. Yr.; 2 cr. Miss Sterling.

To make suitable four or five-hour courses, 15, 17, and 20 should be combined with 40 or 41.

Course 20 is given in English, 3, 15, and 17 partly in German.

GROUP B

These courses are open to students who have had at least four credits in advance of course 2b.

Not more than 12 credits may regularly be taken in this group for full credit.

21. Wagner's Music Dramas. I; 3 cr. **German Poetry.** II; 3 cr. (Omitted 1919–20.) Miss Sterling.

22. Heine. I; 3 cr. **Hebbel.** II; 3 cr. (Omitted 1919–20.) Mr. Bruns.

23. Goethe. Yr.; 2 cr. (Omitted 1919–20.) Mr. Voss.

26. Modern Fiction. Yr.; 3 cr. Keller, Storm, Meyer, Raabe. (Omitted 1919–20.) Mr. Goodnight.

27. Modern German Drama. Yr; 2 cr. (Given 1919–20.) Mr. Bruns.

Course 21 is given in English, the others largely in German.

100. Thesis Course. Yr.; 2 cr. (Omitted 1919–20.)

For Undergraduates and Graduates

130. Goethe's Faust. Yr.; 2 or 3 cr. Alternates with course 131. (Given 1920–21.) Mr. Hohlfeld.

131. Survey of German Literature. Yr.; 2 or 3 cr. Alternates with course 130. (Given 1919–20.) Mr. Hohlfeld.

134. Lyric Poetry of the Nineteenth Century. Yr.; 2 cr. Alternates with course 241. (Given 1919–20.) Mr. Bruns.

135. The Novel of the Nineteenth Century. Yr.; 2 cr. (Omitted 1919–20.) Mr. Goodnight.

136. Popular German Literature. Yr.; 2 cr. Alternates with course 137. (Omitted 1919–20.) Mr. Roedder.

137. Schiller. Yr.; 2 cr. Alternates with course 136. (Omitted 1919–20.) Mr. Roedder.

141CL. Principles and Practice of Translating. II; 1 or 2 cr. For students with advanced training in German, French, or Italian. (Omitted 1919–20.) Mr. Morgan.

Course 141CL is given in English, the others in German.

For Graduates

241. The Romantic Movement in Germany. Yr.; 2 cr. Alternates with course 134. (Given 1920–21.) Mr. Bruns.

247. Pro-seminary in German Literature. Yr.; 2 or 3 cr. The seminary work proper (twice a week) is taken in alternate years from:

A. Klopstock and Wieland and their predecessors. (Given 1920–21).

B. Lessing and Herder and their contemporaries.

Once a week, lectures on bibliography (first semester), and on methods of the study of literature (second semester). Mr. Hohlfeld.

248. Seminary in German Literature. Yr.; 2 cr. The general fields from which specific problems are chosen for investigation form a cycle of three years:

A. Interrelations of German and English literature, chiefly during the 18th and 19th centuries. (Given 1919–20.)

B. First semester, Goethe; second semester, Goethe's *Faust*. (Given 1918–19.)

C. The German drama of the nineteenth century. (Given 1917–18.) Mr. Hohlfeld.

These courses are given in German.

GERMAN PHILOLOGY

Mr. Voss is in general charge of courses 150–155, 263–270.

For Undergraduates and Graduates

150. History of the German Language. I; 2 cr. Mr. Voss.

151. Elementary Middle High German. II; 2 cr. Mr. Voss.

152. Advanced Middle High German. Yr.; 2 cr. Mr. Voss. (Omitted 1919–20.)

154. Gothic. I; 2 cr. (Omitted 1919–20.) Mr. Roedder.

159CL. Germanic Mythology and Heroic Legends. II; 2 cr. (Given 1919–20.) Mr. Roedder.

155. Old High German. I; 2 cr. (Given 1919–20.) Mr. Roedder.

For phonetics see above, course 90b.

Courses 150 and 151 are given partly in German, the others in German.

For Graduates

263. Pre-Germanic Grammar. II; 2 cr. (Omitted 1919–20.) Mr. Roedder.

264. Modern and Middle Low German. Yr.; 1 cr. Alternates with course 265. (Omitted 1918–19.) Mr. Voss.

265. Language and Literature of the Sixteenth Century. Yr.; 1 cr. Alternates with course 264. (Omitted 1919–20.) Mr. Voss.

270. Philological Seminary, Yr.; 2 cr. The fields of investigation form a cycle of three years. Mr. Voss.

Courses 263–270 are given in German.

HISTORY

PROFESSORS DENNIS*, FISH, PAXSON (CHAIRMAN), ROOT, SELLERY, WESTERMANN; ASSOCIATE PROFSSORS BYRNE, CHASE; LECTURER BOND**; ASSISTANT PROFESSOR C. A. SMITH; INSTRUCTORS BALLOU, KNAPLUND, NORDLIE†, YEWDALE; ASSISTANTS BEYER, BRANDT, JOHANNESEN, JONES, KILNESS, LARSEN, MUELLER, PERKINS, PYTHIAN**, RIEGEL, SCHULDT**, SHINE.

FELLOWS, MR. SELLERS, MR. P. S. SMITH.

SCHOLARS, MISS LENFEST, MR. NASH.

The courses in history are divided into three groups:

A. Introductory courses 1, 2, 4, 5, 6, and 10 are for undergraduates, and may not be counted toward advanced degrees in history. Courses 1, 5, 6, and 10 are the courses open to freshmen. Students may take only one of these freshmen courses for full credit (three credits each semester) since each contains introductory training for which credit ought not to be given twice; but if they have had or are taking one of these courses for full credit, another may be taken with-

*On leave of absence 1919–1920.

†First semester appointment.

**Second semester appointment.

out the supplementary reading and topical report for two credits each semester. Students not registered in the College of Letters and Science may take any of the introductory courses for two credits each semester. Students are advised not to neglect advanced work in the attempt to cover all of the introductory courses.

B. Advanced courses 100 to 149 continue, in the direction of greater specialization, the work begun in the introductory courses. They may be elected by students who have the necessary preparation.

Courses 90 and 91 are primarily for students who expect to teach history in a secondary school. Seniors completing a major or a teaching minor in history will be regularly admitted to these courses. Other seniors and graduates will be admitted only by special permission.

C. Courses 230 to 263 are open only to graduate students.

The Major in History

Twenty-six credits in history, in addition to the thesis, are required for an undergraduate major in history and must include:

(a) One introductory course in European and one in American history;

(b) At least twelve credits in advanced courses.

The Master's Degree in History

Candidates for the master's degree in history who have completed an undergraduate major in history in this University, or its equivalent elsewhere, are required, in their year of work for the degree, to do one-half their work (e. g., a three hour lecture course and a seminary, both throughout the year), in advanced history, and to write an acceptable thesis. They are permitted to complete their programs from advanced courses in history or related subjects. Other candidates for the master's degree in history will be required to concentrate their work more fully, or exclusively, upon history. Every candidate for this degree is expected to have had, as undergraduate or graduate, at least one advanced course in European and one in American history.

The Doctor's Degree in History

Candidates for the doctor's degree with major in history are required, *inter alia*, to possess a general knowledge of a broad field of history (ancient history, medieval history, modern history, English history, or American history) and an intimate knowledge of

some more limited field, and to submit a scholarly dissertation within the limited field. The other requirements for the degree are given in the Graduate School Circular.

For Undergraduates

INTRODUCTORY COURSES OPEN TO FRESHMEN

Freshmen are permitted to choose two of the introductory courses 1, 5 or 6, and 10, for five credits, and are not required to do the special training work (including supplementary reading and topical report) in the second of the two courses.

10. Ancient History. Yr.; 3 or 2 cr. Mr. Westermann, Miss Ballou, and staff.

1. Medieval History. Yr.; 3 or 2 cr. Mr. Sellery, Mr. Chase, and staff.

5. English History. Yr.; 3 or 2 cr. Students who have had both semesters of History 1 may enter this course at the beginning of the second semester. Not open to students in the Course in Commerce. Mr. Knaplund, Mr. Smith and staff.

5a. First Semester English History. II; 3 or 2 cr. Identical with the first semester of History 5. Mr. Bond.

6. English History. Yr.; 3 or 2 cr. For students in the Course in Commerce only. Mr. Byrne, Mr. Bond, Mr. Nordlie and staff.

INTRODUCTORY COURSES NOT OPEN TO FRESHMEN

2. Modern European History. Yr.; 3 cr. May be elected by semesters. Mr. Yewdale.

4. History of the United States. Yr.; 3 cr. May be elected by semesters. Seniors may elect for two or three credits. Mr. Fish.

For Undergraduates and Graduates

90. The Teaching of History in the High School. I or II; 2 cr. Required of seniors for the teachers major; elective for the teachers minor. Mr. Chase.

91. Supplementary Reading for Teachers of History. II; 2 cr. Required for the teachers minor; elective for the teachers major. Mr. Chase.

ANCIENT AND MEDIEVAL HISTORY

125. Greek Civilization and its Expansion. I; 2 cr. (Omitted 1919–20.) Mr. Westermann.

127. Hellenistic-Roman Civilization. II; 2 cr. (Omitted 1919–20.) Mr. Westermann.

123. The Roman Empire in the East. II; 2 cr. (Omitted 1919–20.) Mr. Westermann.

129. Greek and Roman Political Institutions. Yr.; 2 cr. Mr. Westermann.

131. Medieval Civilization. I; 3 cr. Mr. Sellery.

133. Medieval Commerce. I; 2 cr. (Omitted 1919–20.) Mr. Byrne.

134. The Renaissance. II; 3 cr. Mr. Sellery.

MODERN HISTORY

137. Europe During the World War. I; 2 cr. Mr. Yewdale.

138. The French Revolution and the Napoleonic Empire, 1789–1815. II; 2 cr. Mr. Yewdale.

139. Nineteenth Century Europe. Yr.; 2 cr. Mr. Knaplund.

140. The Reformation. II; 3 cr. (Omitted 1919–20.) Mr. Sellery.

148. Expansion of Europe Since the Fifteenth Century. Yr.; cr. to be arranged. (Omitted 1919–20.) Mr. Dennis.

142. England Under the Tudors and Stuarts. Yr.; 2 cr. (Omitted 1919–20.) Mr. Dennis.

136. The British Empire, 1688–1815. I; 2 cr. (Omitted 1919–20.) Mr. Dennis.

143. The British Empire since 1815. Yr.; 2 cr. Mr. Root.

146. History of Central Europe. Yr.; 2 cr. Mr. Byrne.

AMERICAN HISTORY

116. English Colonies in America, 1583–1783. Yr.; 3 cr. May be elected by semesters. Mr. Root.

119. French and Spanish Colonies in America, 1492–1823. Yr.; 2 cr. (Omitted 1919–20.) Mr. Root.

113. History of New England. II; 2 cr. (Omitted 1919–20.) Mr. Fish.

111. History of the West, 1763–1890. Yr.; 2 or 3 cr. May be elected by semesters. Mr. Paxson.

112. Representative Men. I; 3 cr. Mr. Fish.

115. Diplomatic History of the United States. Yr.; 2 cr. (Omitted 1919–20.) Mr. Fish.

120. American Foreign Policy. 1783–1919. II; 3 cr. Mr. Fish.

117. Constitutional History of the United States, 1750–1850. Yr.; 2 cr. May be elected by semesters. Mr. Root.

118. Civil War and Reconstruction. I; 3 cr. (Omitted 1919–20.) Mr. Fish.

124. Recent History of the United States, 1873–1919. Yr.; 2 or 3 cr. May be elected by semesters. Mr. Paxson.

121. Studies in Colonial History. Yr.; 2 cr. (Omitted 1919–20.) Mr. Root.

128. The United States in the Great War (1917–19.) Yr.; 3 cr. (Omitted 1919–20.) Mr. Paxson.

For Graduates

230. Thucydides. Yr.; 2 cr. Mr. Westermann.

252. Historical Method. Yr.; 2 cr. Graduate students in their first year are expected to take this course. (Omitted first semester 1919–20.) Mr. Byrne, Mr. Fish, Mr. Root.

254. Seminary in Ancient History. Yr.; 2 cr. (Omitted 1919–20.) Mr. Westermann.

255. Seminary in Latin and Ancient History. Yr.; 2 cr. See Latin 233. (Omitted 1919–20.) Mr. Slaughter, Mr. Westermann.

256. Seminary in Medieval History. Yr.; 2 cr. A knowledge of Latin, French, and German is required. (Omitted 1919–20.) Mr. Sellery.

257. Seminary in Medieval History. Yr.; 2 cr. A reading knowledge of Latin, French and German is required. Mr. Byrne.

259. Seminary in History of the British Empire. Yr.; 2 cr. (Omitted 1919–20.) Mr. Dennis.

261. Seminary in American History. Yr.; 2 cr. Mr. Fish.

262. Seminary in American History. Yr.; 2 cr. Mr. Paxson.

263. Seminary in American History. Yr.; 2 cr. (Omitted 1919–20.) Mr. Root.

INDO-EUROPEAN COMPARATIVE PHILOLOGY

Associate Professor Laird (chairman); Instructor Aron.

For Undergraduates and Graduates

101. Introduction to Comparative Philology. I; 2 cr. Mr. Aron.

102. Elements of Comparative Grammar. II; 2 cr. Mr. Aron.

103. Elementary Sanskrit. Yr.; 3 cr. Mr. Laird.

For Graduates

207. Old Irish. I; 2 cr. Mr. Aron.

209. Pre-Germanic Grammar. Yr.; 2 cr. Mr. Aron.

210. Old Bulgarian. II; 2 cr. Mr. Aron.

220. Greek Grammar. I; 3 cr. Sounds and forms. Mr. Laird.

225. Latin Grammar. I; 3 cr. Sounds and forms. (Given in 1919–20.) Mr. Laird.

230. Advanced Sanskrit. Yr.; 1 cr. Mr. Laird.

JOURNALISM

Professor Bleyer (chairman); Associate Professor Hyde, Instructor Johnson.

The courses in journalism are designed to give the student instruction and practice in newspaper writing and editing, in some kinds of magazine writing, and in advertising, as well as to present present-day problems of journalism in the light of their origin and development. They have been arranged to meet the needs of students in the four-year Course in Journalism (see Index), as well as other students in the Colleges of Letters and Science, Agriculture, and Engineering who desire training in journalistic writing.

The department has a large laboratory equipped like the city room of a newspaper office, with typewriters, reference books, maps, a "morgue," and similar material. Adjoining this is a reading room with current files of representative American newspapers and journalistic periodicals, and a lecture room equipped with a lantern for projecting slides and opaque objects. A large collection of foreign newspapers from various parts of the world furnishes material for the study of comparative journalism.

To familiarize students of journalism with the principles of typography, the Department of Journalism has a printing laboratory for practical work in connection with the courses in editing, advertising, and the technique of printing.

Besides the instruction given by the Department of Journalism, several other departments offer courses especially for journalism students. The University Law School gives a course in the law of the press, including the law of copyright, libel, and similar topics. The Department of Manual Arts has special classes in drawing for students of journalism and advertising, which include cartooning, illustrating, sketching, and artistic printing. A course in French journalism is offered by the Romance Language Department. The psychology of advertising is the subject of a course in the Department of Philosophy, and courses in retail advertising, in commercial correspondence, in national advertising campaigns, and in the

writing of advertising booklets are offered in the business administration section of the Department of Economics. Classes in agricultural journalism and advertising in the College of Agriculture are open to students of journalism and advertising.

Special lectures by editors and writers in active service are given annually for the students in journalism classes.

Major in Journalism

For an undergraduate major in journalism are required, in addition to a thesis, not less than 24 credits, in which may be included, besides courses in the Department of Journalism, the Law of the Press (Journalism 125), Retail Advertising (Economics 15), French Journalism (French 18), and Agricultural Journalism. The courses in journalism required for an undergraduate major are Newspaper Reporting (Journalism 2), 6 credits; Editing (Journalism 3), 6 credits; History and Principles of Journalism (Journalism 110), 6 credits; and either Editorial Writing (Journalism 104), 4 credits, or the Writing of Special Feature Articles (Journalism 105), 4 credits.

Graduate Study

Provision is made for directing research of graduate students in historical and contemporary phases of newspapers and magazines, as well as for giving special training in any kind of journalistic work. The Library of the State Historical Society, which occupies the same building as the University Library, contains one of the largest collections of bound files of American newspapers and magazines in this country and furnishes unusual opportunities for an historical study of English and American journalism from earliest times to the present. The master's degree in journalism is granted to graduate students who are preparing to teach journalism. University graduate scholarships are open annually to students in journalism.

For Undergraduates

1. General Survey of Journalism. Yr.; no cr. 1 hr. a week. Required of freshmen in the Course in Journalism. Mr. Bleyer.

2. Newspaper Reporting and Correspondence. Yr.; 3 cr. Primarily for sophomores. Mr. Hyde and Mr. Johnson.

3. Newspaper Editing. Yr.; 3 cr. Prerequisite: Journalism 2 or equivalent practical experience. Mr. Hyde and Mr. Johnson.

7. The Country Newspaper. I; 2 cr. Open only to juniors and seniors. Mr. Bleyer.

8. Technique of Printing. II; 2 cr. Open only to juniors and seniors. Mr. Johnson.

15. Retail Advertising (Economics 15). I; 2 cr. For seniors. Mr. Gardner.

16. Advertising Campaigns. (Economics 16.) II; 2 cr. For seniors who are specializing in advertising. Mr. Gardner.

18. French Journalism (French 18.) Yr.; 2 cr., 1 in French, 1 in Journalism. Prerequisites: French 1a and 1b or equivalent. Mr. Ernst.

50-51. Freehand Drawing and Illustration (Manual Arts 50 or 51.) I or II; 3 cr. Mr. Varnum.

For Undergraduates and Graduates

104. Editorial Writing. Yr.; 2 cr. Primarily for seniors and graduates. Mr. Bleyer.

105. The Writing of Special Feature Articles. Yr.; 2 cr. Not open to sophomores. Mr. Bleyer.

110. History and Principles of Journalism. Yr.; 3 cr. Open only to seniors and graduates. Required for undergraduate and graduate major in journalism. Mr. Bleyer.

119. Principles of Advertising (Philosophy 119). II; 2 cr. Mr. Starch.

125. The Law of the Press. II; 2 cr. Mr. Rundell.

AGRICULTURAL JOURNALISM

1. Agricultural Journalism. I; 2 cr. Mr. Sumner.

4. Agricultural Advertising. II; 2 cr. Mr. Sumner.

MANUAL ARTS

PROFESSORS CRAWSHAW (CHAIRMAN), PHILLIPS; ASSOCIATE PROFESSOR VARNUM; ASSISTANT PROFESSORS DABNEY, GODDARD, GREENE; INSTRUCTORS ANDERSON, WILSON; ASSISTANTS OEHLER, LIMP.

Courses marked † are the only courses in Manual Arts open to students who are not registered in the Manual Arts Course. See School of Education, Manual Arts, p. 248.

For Undergraduates

†**1. Elements of Mechanical Drawing.** I or II; 3 cr. Mr. Phillips, Mr. Orth.

†**2. Elements of Mechanical Drawing.** I or II; 3 cr. Prerequisite: course 1. Mr. Phillips, Mr. Orth.

***4. Elementary Bench Woodwork.** I; 3 cr. Mr. Greene.

†***5. Furniture and Cabinet Design and Construction.** II; 3 cr. An advanced course. Prerequisite: course 4 or equivalent. Mr. Greene.

6. Wood Turning. I or II; 2 or 3 cr. Mr. Greene.

7. Foundry Work. I or II; 2 or 3 cr. Mr. Payton.

8. Forge Work. II; 2 or 3 cr. Mr. Schumann.

9. Machine Shop Work. I or II; 2 or 3 cr. Mr. Dabney and staff.

***10. Wood Finishing.** II; 2 cr. Mr. Diamond.

11. Shop Planning and Installation. I; 2 cr. Mr. Greene.

12. Elementary Handwork. II; 2 or 3 cr. For those interested as teachers. Prerequisite: credit in course 90 desirable. Miss Wilson.

†**15. Applied Design; Wood.** I or II; 3 cr. Mr. Greene.

16. Elementary Pattern Making. I or II; 2 or 3 cr. Prerequisites: courses 1 and 4. Mr. Greene.

17. Advanced Pattern Making. I or II; 2 or 3 cr. Prerequisites: course 16, and credit or registration in course 7. Mr. Greene.

20. Bench and Sheet Metal. I; 3 cr. Mr. Greene.

21. Electrical Construction and Pipe Fitting. II; 3 cr. Mr. Greene.

DRAWING AND DESIGN

†**50. Freehand Drawing and Perspective.** I; 3 cr. Open to freshmen. Miss Anderson, Miss Wilson, Miss Oehler.

†**51. Freehand Drawing and Anatomy.** II; 3 cr. Model fee $1.50. Prerequisite: course 50 or equivalent. Miss Wilson, Miss Oehler.

54. Modelling. I; 3 cr. Miss Wilson.

†**56. Applied Drawing and Painting.** Yr.; 2 cr. Prerequisites: credit in courses 50 and 51. Mr. Varnum.

†**62. Design.** Yr.; 3 cr. Line, form and surface enrichment. Prerequisite: credit or registration in courses 1 and 50 or their equivalents. Mr. Varnum.

*See also Forest Products Laboratory for lectures on wood structure.

APPLIED DESIGN

†**70. Applied Design in Metal** (copper, brass, silver, gold, iron). Yr.; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Mr. Varnum.

†*__71. Applied Design in Clay__ (pottery). Yr.; 3 cr. Desirable prerequisites: registration or credit in course 62 or equivalent training. Miss Wilson.

90. The Teaching and Supervision of Manual Arts. Yr.; 2 or 3 cr. Open to seniors and adult specials. Mr. Crawshaw.

For Undergraduates and Graduates

100. Senior Thesis Course. Yr.; 2 cr. Mr. Crawshaw, Mr. Varnum.

110. History and Literature of Manual Arts. I; 2 cr. Open to seniors and adult specials. Mr. Crawshaw.

111. Organization. II; 2 cr. Open to juniors and adult specials. Mr. Crawshaw.

112. The Teaching and Supervision of Special Subjects. II; 2-3 cr. Mr. Crawshaw, Mr. Varnum, and others.

†**113. Vocational Education and Guidance.** II; 2 cr. Open to seniors and adult specials. Mr. Crawshaw.

†**120. Job Analysis.** I; 2 cr. Mr. Crawshaw, Mr. Greene.

†**121. Foremanship Training.** II; 2 cr. Mr. Crawshaw, Mr. Greene.

117. Curriculum Building for Art and Industry. I; 2 cr. Mr. Crawshaw, Mr. Varnum.

†**130. Experimental Design.** I; 2 or 3 cr. Training of imagination with emphasis on stimulating power of originality in design. Application to commercial practice and public school methods. Prerequisites: courses 51 and 62. Mr. Varnum.

†**131. Advanced Design.** II; 2 or 3 cr. Original composition in the arts applied to civic, school or home use. Prerequisites: courses 54 or 56, 62, 70 or 71, 130. Mr. Varnum.

†**132. Art Structure.** I; 2 or 3 cr. Advanced technical training for vocational or teacher training ends. Prerequisites: courses 54 or 56, 62, registration in 130. Mr. Varnum.

*The lectures in laboratory courses each require two hours of preparation. This may be laboratory or outside time, depending upon conditions. Those who elect manual arts laboratory courses with a view to teaching should devote as much time as possible to laboratory work.

A fee of two dollars per credit is required for all shop laboratory courses.

For Graduates

†**216. Tests and Measurements in Art and Industry.** I; 2 cr. Mr. Crawshaw.

225. Manual Arts Seminary. Yr.; 1 cr. Mr. Crawshaw, Mr. Varnum.

MATHEMATICS

PROFESSORS SLICHTER (CHAIRMAN), VAN VLECK; ASSOCIATE PROFESSORS DOWLING, SKINNER; ASSISTANT PROFESSORS DRESDEN, HART, LANE, MARCH, TAYLOR; INSTRUCTORS ALBRIGHT, ALLEN, BABCOCK, DAVIS, EHRMAN, FELTGES, INGRAHAM, OLSON, RECHARD, SMITH, TRAYER, WOOD; ASSISTANTS COLPITTS, DAHM, KNOERR, LAMONT, STEWART.

The courses in mathematics are divided into three groups, as follows:

A. Courses 1 to 8 are planned to give a working knowledge of elementary mathematics. Courses 1 and 7 are required of students in the Course in Commerce, courses 51 to 55 are required of students in Engineering, and course 71 is required of students in Agriculture.

Students who elect the minimum amount of mathematics in fulfillment of requirement "C" (see requirement for degree of Bachelor of Arts), may choose six hours from any of courses 1 to 8, provided courses 3 and 4 are not both chosen.

Students electing mathematics with a view to teaching the subject in the high schools are referred to the section on mathematics in the School of Education. Course 5 is strongly recommended in preparation for teaching.

It will be advantageous for all students expecting to elect mathematics to present at least one and one-half units of algebra for entrance.

B. Courses 111 to 125 are designed for students who desire to continue mathematical study and who have completed the prerequisite courses in group A.

C. Courses 220 to 268 are intended primarily for graduate students.

Major and Minor in Mathematics

The requirements for an undergraduate major in mathematics consist of a thesis, courses 5 and 6, and a minimum of 11 credits

from courses for undergraduates and graduates, inclusive of course 112 or 113.

Students entering the junior class with advanced standing from other institutions and desiring to complete an undergraduate major in mathematics in four semesters should previously have completed the equivalent of course 5. The requirements for mathematics as a major or minor subject in the School of Education are given on page 241.

For Undergraduates, College of Letters and Science

1. Algebra. I or II; 3 cr. For students presenting one unit of algebra for entrance. Prerequisite to all other courses except 2 and 8. Mr. Skinner, Miss Allen, and staff.

2. Trigonometry. I or II; 3 cr. Prerequisite to all other courses except 1, 7, 8 and 124. Mr. Skinner and staff.

3. Analytic Geometry. I or II; 3 cr. Recommended to students presenting one and one-half units of algebra for admission and who have taken or are taking course 2. Miss Allen, Mr. Dresden, Mr. Van Vleck.

4. Analytic Geometry. Yr.; 2 cr. Prerequisite: course 2. Mr. Dresden.

5. Calculus. Yr.; 3 cr. Students who intend to specialize in mathematics or who desire calculus for applications in science are advised to take course 5 in the sophomore year. Course 3 or 4 must be taken simultaneously by students who have not had analytic geometry. Mr. Dowling, Mr. Dresden.

6. Determinants and Analytic Geometry of Three Dimensions. I; 3 cr. Prerequisite: course 3 or 4. Mr. Dresden.

7. Commercial Algebra. I or II; 4 cr. Required of students in the Course in Commerce. Mr. Skinner and staff.

8. Solid Geometry. I; 3 cr. Mr. Rechard.

90a. The Teaching of Mathematics. I or II; 2 cr. Open to seniors who are preparing to teach mathematics either as major or minor subject. Mr. Hart.

90b. The Content of Secondary Mathematics. II; 2 cr. Admission to course restricted to students enrolled in the School of Education. Mr. Hart.

100. Thesis Course. 2 cr. Mr. Dresden, Mr. Skinner.

For Undergraduates, College of Engineering

50. Subfreshman Algebra. I; no cr. For students who fail to pass the examination for admission to course 51. Mr. Babcock and staff.

51. Elementary Mathematical Analysis. I or II; 5 cr. Required of freshmen in Engineering. Mr. March, Mr. Lane, Mr. Taylor. and staff.

52. Elementary Mathematical Analysis. I or II; 5 cr. A continuation of 51. Required of freshmen in Engineering. Mr. March, Mr. Lane, Mr. Taylor, and staff.

54. Differential and Integral Calculus. I or II; 4 cr. For all courses. Required of all sophomores in Engineering. Mr. Slichter, Mr. March, and staff.

55. Calculus. I or II; 4 cr. Continuation of 54; for all courses. Required of sophomores in Engineering. Mr. Slichter, Mr. March, and staff.

110. Higher Mathematics. Yr.; 3 cr. Elective for juniors, seniors, and graduate students. Mr. March.

For Undergraduates, College of Agriculture

71. Mathematics for Agricultural Students. I or II; 5 cr. Mr. Babcock and staff.

For Undergraduates and Graduates

Course 5 is prerequisite to all courses in this group except 115, 124, and 125.

111. Advanced Calculus. I; 3 cr. Mr. Skinner.

112. Differential Equations. I; 3 cr. Primarily a working course for students in mathematics and physics. Mr. Van Vleck.

113. Theoretical Mechanics. Yr.; 3 cr. May be taken by those who have had analytic geometry and calculus. Mr. Slichter.

114. Modern Analytic Geometry. II; 3 cr. For alternate years. (Omitted 1919–20.)

115. Projective Geometry. Yr.; 2 cr. Mr. Dowling.

118. Theory of Probabilities and Method of Least Squares. II; 2 cr. Mr. Slichter.

119. Differential Geometry. II; 3 cr. In alternate years. Mr. Skinner.

124. Theory of Life Insurance. Yr.; 2 cr. Prerequisite: course 7 or its equivalent. Mr. Dowling.

125. Theory of Equations and Introduction to Higher Algebra. II; 3 cr. Mr. Smith.

For Graduates

These courses are varied from year to year according to the needs of the students, other subjects being introduced in addition to those here announced.

211. Advanced Dynamics. Yr.; 3 cr. Prerequisite: a course in analytical mechanics. Mr. March.

220. Theory of Analytic Functions. Yr.; 3 cr. In alternate years. I, Mr. Van Vleck; II, Mr. Dresden.

221. Theory of Functions of a Real Variable. Yr.; 3 cr. In alternate years. (Omitted 1919–20.) Mr. Van Vleck.

241. Elliptic Functions. Yr.; 2 cr. In alternate years. (Omitted 1919–20.) Mr. Dowling.

243. Modern Theory of Differential Equations. Yr.; 3 cr. (Omitted 1919–20.) Mr. Van Vleck.

244. Higher Geometry. Yr.; 2 cr. In alternate years. (Omitted 1920 21.) Mr. Dowling.

246. Finite Groups. Yr.; 3 cr. Mr. Skinner.

250. Theory of Elasticity. Yr.; 2 cr. Mr. Slichter.

251. Theory of Potential. Yr.; 2 cr. (Omitted 1919–20.) Mr. Slichter.

263. Higher Algebra. I; 3 cr. (Omitted 1919–20.) Mr. Skinner.

265. Harmonic Analysis. Yr.; 3 cr. (Omitted 1919–20.) Mr. March.

266. Theory of Numbers. Yr.; 3 cr. (Omitted 1919–20.) Mr. Skinner.

268. Partial Differential Equations. Yr.; 3 cr. Introductory course. (Omitted 1919–20.) Mr. Van Vleck.

Mathematical Club—For instructors, graduates, and seniors making mathematics their major. Twice monthly. The object of the club will be to follow important recent developments in mathematics.

METEOROLOGY

Mr. Eric R. Miller, of the U. S. Weather Bureau.

Courses 1 and 2 are intended to afford a general survey of atmospheric processes and their effects upon life on the earth. Courses 103 and 106 are planned to prepare students of agriculture, commerce, engineering, journalism, medicine, physical geography, etc., for the treatment of meteorological and climatological questions of importance in their professions, and to fit students for the investigation of special problems in meteorology. Further opportunity to pursue original research under supervision will be provided if desired.

For Undergraduates

1. Weather and Climate. I; 3 cr. Mr. Miller.
2. Climate and Man. II; 3 cr. Mr. Miller.

For Undergraduates and Graduates

103. Meteorology. I; 3 cr. Prerequisites: Mathematics 111 and 112 and Physics 2, or equivalents. Mr. Miller.
106. Climatology. II; 3 cr. Prerequisites: Geology 109 and Economics 130a, or equivalents. Mr. Miller.

MUSIC

Emeritus PROFESSOR PARKER; PROFESSORS MILLS (CHAIRMAN), DYKEMA; ASSOCIATE PROFESSOR TOWNSEND; ASSISTANT PROFESSORS GELTCH*, SWINNEY; INSTRUCTORS BECK, BEECHER, EASTMAN, CAMPBELL, GUNDERSON, ILTIS, JONES, MOUTRAY, SABEL, YATES.

The courses in music are open as electives to all students, except freshmen, in any department of the University who show sufficient musical ability to pursue them with profit, and carry credit toward graduation as do electives in other departments of the University, with the following exceptions:

Courses 71 and 75 may only be taken without credit.

Advanced instruction in applied music may be taken as elective only by juniors and seniors of the University upon consultation with the Director of the School of Music after meeting with the Examination Committee of the School. Credit, not to exceed a total of ten semester hours, is given on the same basis as for other collegiate studies.

THEORY AND PRACTICE

For Undergraduates

1. Harmony. Yr.; 3 cr. Miss Eastman.
11. Harmony. Yr.; 3 cr. Prerequisite: course 1. Mr. Mills, Miss Eastman.
21. Counterpoint. Yr.; 2 cr. Prerequisite: course 11. Mr. Mills, Miss Eastman.

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*On leave of absence 1919–20.

31. History. Yr.; 2 cr. Mr. Mills, Miss Eastman.

41. Methods and Practice. Public School Music, first year. Yr.; 1, 2 or 4 cr. Mr. Dykema, Miss Sabel.

45. Public School Music. Yr.; 2 cr. For grade and high school teachers. (Omitted 1919–20.)

51. Methods and Practice. Public School Music, second year. Yr.; 2 or 4 cr. Mr. Dykema.

55. Methods and Practice. Public School Music, third year. Cr. to be arranged. Mr. Dykema.

61. Appreciation of Music. (Omitted 1919–20.)

65. Appreciation of Music. Yr.; 1 cr. Open to student body. Mr. Mills.

71. Sight Singing and Ear Training. Yr.; 1 cr. Miss Sabel, Miss Beecher.

75. Sight Singing and Ear Training. Yr.; 1 cr. Miss Sabel, Miss Beecher.

76. Orchestra. Yr.; 1 cr. Prerequisite: the ability to play some instrument. Mr. Yates.

77. Choral Music. Yr.; ½ cr. Mr. Dykema.

78. Community Music. II; 2 cr. Mr. Dykema.

79. History of Pianoforte Music and Technique. Yr.; 2 cr. Mr. Townsend, Mr. Dykema.

80. Applied Music. No college credit. Course for beginners in Applied Music.

81. Piano. Yr.; cr. to be arranged. Mr. Townsend, Miss Campbell, Miss Gunderson, Mr. Iltis, Miss Beecher.

82. Voice. Yr.; cr. to be arranged. Mr. Swinney, Miss Jones, Miss Moutray.

83. String and Orchestral Instruments. Yr.; cr. to be arranged. Mr. Geltch, Mr. Yates.

84. Organ. Yr.; cr. to be arranged. Mr. Mills, Miss Eastman.

85. Ensemble. Yr.; 2 cr. Miss Campbell.

86. Ensemble. Yr.; 2 cr. Miss Campbell.

87. 1, 2, 3, 4, Second Subject in Applied Music. Yr.; 1 cr.

88. 1, 2, 3, 4, Second Subject in Applied Music. Yr.; 1 cr.

89. Elements of Practical Instrumentation. Yr.; 1 cr. Mr. Yates.

90. Instrumentation. I or II; 2 cr. A continuation and development of course 89. Mr. Yates.

100. Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

102. Harmony. Yr.; cr to be arranged. Prerequisite: course 11. (Not given 1919–20.) Mr. Mills.

112. Counterpoint. Yr.; cr. to be arranged. Prerequisite: course 21. Mr. Mills.

***122. Double Counterpoint, Canon and Fugue.** Yr.; 2 cr. Mr. Mills.

***152. Instrumentation.** Yr.; 2 cr. Mr. Mills.

***162. Composition.** Yr.; 2 cr. Small forms, etc. Mr. Mills.

For Graduates

***211. Modern Orchestration.** Yr.; hours to be arranged. Prerequisite: course 11. Mr. Mills.

***265. Free Composition.** Yr.; hours to be arranged. Prerequisite· course 162. Mr. Mills.

PATHOLOGY AND MEDICAL BACTERIOLOGY

Professors Bunting (chairman), Clark; Assistant Professor Jacobson; Instructor Cheyney; Student Assistants Felstad, Murphy, Roberts.

For full description of courses in pathology, see announcement under Medical School.

For Undergraduates and Graduates

101. General and Special Pathology. I; 5 cr.; II; 2 cr. The work of the second semester is a continuation of that of the first semester.

102. Medical Bacteriology. I; 5 cr.

103. Experimental Pathology. II; 4 cr.

104. Immunity. II; 4 cr. Prerequisite: course 102.

107. Sanitary Bacteriology. II; 3 cr. Given in conjunction with Hygiene 126.

For Graduates

204. Advanced Pathology.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology.

*Alternate years.

PHARMACOLOGY AND TOXICOLOGY

PROFESSOR LOEVENHART (CHAIRMAN); ASSISTANT PROFESSOR SCHLOMOVITZ; ASSISTANT SEYBOLD.

For full description of courses in pharmacology and toxicology, see announcement under Medical School.

101. General Toxicology. II; 1 cr. Lectures. Mr. Loevenhart.

102. General Toxicology. II; 1 cr. Laboratory. Mr. Loevenhart, Mr. Schlomovitz.

104. General Pharmacology. I; 3 cr. Lectures. Mr. Loevenhart, Mr. Schlomovitz, Mr. Seybold.

105. General Pharmacology. I; 2 cr. Laboratory. Mr. Loevenhart, Mr. Schlomovitz, Mr. Seybold.

108. Advanced Work. Mr. Loevenhart, Mr. Schlomovitz.

112. Independent Investigation. Mr. Loevenhart, Mr. Schlomovitz.

116. Journal Club. Yr.

PHARMACY

PROFESSOR KREMERS (CHAIRMAN); INSTRUCTORS LANGENHAN, WAKEMAN; ASSISTANTS JOHNSON, WHYTE.

FELLOWS, MR. REIF, MR. SHERK, MR. WEISE.

SCHOLARS, MISS WHELAN, MISS WINKELBLECH.

For Undergraduates

1. Pharmaceutical Technique. Yr.; 3 cr. Miss Wakeman and Mrs. Whyte.

20. Elementary Prescription Practice. I; 3 cr. Mr. Langenhan and Mr. Johnson.

22. Elementary Prescription Practice. I or II; 1 cr. For premedical students. Mr. Langenhan and Mr. Johnson.

30. Pharmaceutical Technology. II; 4 cr. Mr. Langenhan.

40. Drug Store Practice. Yr.; 1 cr. Alternates with Pharmacy 50. Mr. Kremers and special lecturers.

50. History of Pharmacy. Yr.; 1 cr. Alternates with Pharmacy 40. Mr. Kremers.

Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

120. Advanced Prescription Practice. I; 2 cr. Mr. Langenhan.

130. Advanced Pharmaceutical Technology. Cr. to be arranged. Mr. Langenhan.

For Graduates

230. Advanced Pharmaceutical Technology. To be arranged. Mr. Kremers.

250. Conference of Research Workers. 1 or 2 hours. Mr. Kremers.

Graduate Thesis. To be arranged. Mr. Kremers.

PHARMACOGNOSY

Assistant Professor Richtmann.

10. Sources and Collection of Crude Drugs. I; 1 cr. Mr. Richtmann.

20. Pharmacognosy. Yr.; 2 cr. Mr. Richtmann.

30. Cultivation of Medicinal Plants. Yr.; 2 cr. Mr. Richtmann.

PHILOSOPHY AND PSYCHOLOGY

Professors Jastrow, McGilvary (chairman), Sharp; Associate Professors Otto, Starch; Instructors Hull, Robinson, Thayer; Lecturer McIntire; Assistants Groves, Mueller.
Fellow, Miss Knower.

The student is at liberty to begin his work in philosophy with any of the courses designated as for undergraduates. But beginners who desire to take three hours of work throughout the year in the department, whether they wish to continue with the subject or not, will ordinarily find it most profitable to select course 1 or 31 in the first semester, and either 11, 21, 25 or 41 in the second semester.

The requirements for an undergraduate major in philosophy are a minimum of twenty-four credits including the thesis. Of these, at least twelve credits must be obtained in the courses for undergraduates and graduates.

For Undergraduates

1. Psychology. I or II; 3 cr.
Section 1. I. Mr. Sharp and staff.
Section 2. I. Mr. Sharp and Staff.
Section 3. II. Mr. Starch and staff.

2. General Psychology. I; 3 cr. Mr. Jastrow.

10. Experimental Psychology for Premedical Students. II; 3 cr. Mr. Hull.

11. Elementary Logic. I or II; 3 cr. Mr. Otto, Mr. Robinson, Mr. Thayer.

19. Psychological Principles of Advertising. II; 2 cr. Mr. Starch.

21. Introduction to Philosophy. I or II; 3 cr. Mr. McGilvary.

25. The Relation of Man to Nature. II; 3 cr. Open only to juniors, seniors and graduate students. Sophomores will be admitted only upon bringing to the instructor in charge statements from their advisers that their grade points are double their credits. Mr. Otto, Mr. Thayer.

31. History of Ancient and Medieval Philosophy. I; 3 cr. Mr. Robinson.

32. History of Modern Philosophy. II; 3 cr. Mr. Robinson. Prerequisite: Course 31, 21, 25, or an equivalent.

41. Ethics. II; 3 cr. Introductory course. Mr. Sharp.

42. Social and Political Ethics. II; 2 cr. Mr. Sharp.

43. Business Ethics. I; 2 cr. Mr. Sharp.

Courses 42 and 43 may be taken independently of one another. For neither course is 41 a prerequisite.

44. History of Morality. I; 2 or 3 cr. (Omitted 1920–21.) Mr. McGilvary.

49. Moral Education. II; 2 cr. Mr. Sharp.

51. Aesthetics. I; 2 cr. Mr. Jastrow.

For Undergraduates and Graduates

102. Foundations of Applied Psychology. I; 2 cr. (Omitted in 1920–21.) Mr. Jastrow.

103. Experimental Psychology. Part I. I; 3 cr. Mr. Hull.

104. Experimental Psychology. Part II. II; 3 cr. Mr. Hull.

Either course 103 or 104 may be taken in advance of the other or separately. Course 1 or its equivalent is a desirable prerequisite for courses 103, 104, 106, 107, 108.

105. Research in Psychology. Cr. to be arranged. Mr. Jastrow, Mr. Starch, Mr. Hull.

106. Comparative Psychology. I; 2 cr. (Omitted 1919–20.) Mr. Jastrow.

107. Abnormal Psychology. I; 2 cr. Mr. Jastrow.

108. Psychology of the Emotions. II; 2 cr. (Omitted 1919–20.) Mr. Jastrow.

112. Advanced Psychology. II; 3 cr. Mr. Jastrow.

115. Vocational Psychology. I; 2 cr. Mr. Starch, Mr. Hull.

134. Contemporary Philosophy. Yr.; 3 cr. Prerequisite: courses 21, 25, 31, or 32. Mr. McGilvary.

135. Descartes, Spinoza and Leibniz. II; 3 cr. Prerequisite: courses 21, 25, 31 or 32.

136. Locke, Berkeley, Hume. I; 3 cr. (Omitted 1920–21.) Prerequisite: courses 21, 25, 31, or 32. Mr. Thayer.

137. Kant. II; 3 cr. *The Critique of Pure Reason.* (Omitted 1920–21.) Prerequisite: courses 21, 25, 31, or 32. Mr. Thayer.

139. American Philosophy. I; 3 cr. With special reference to pragmatism. Prerequisite: 3 cr. in philosophy. Mr. Otto.

For Graduates

210. Psychological Seminary. Mr. Jastrow.

213. Logical Seminary. Mr. Otto.

240. Metaphysical Seminary. Mr. McGilvary.

247. Ethical Seminary. Mr. Sharp.

PHYSICAL EDUCATION

Professor Jones (chairman); Associate Professors Elsom, Lowman (director of professional course), Trilling (director of women's gymnasium); Assistant Professors Brown, H'Doubler, Lippitt, Richards, Schlatter; Instructors Bresnahan, Brownell, Carns, Elmore, Kent, Linden, McKee, Quick, Steinauer, Vail, Williams, Wellington; Assistants Dickelman, Cramer, New, Spengler, Trumpf.

See School of Education, p. 255, and Department of Physical Education, p. 393.

Courses of Instruction

Courses marked * (courses 16, 55, 59 and 80) are the only courses in Physical Education open for academic credit to students who are not registered in the Physical Education Course, School of Education.

1. Developmental Exercises. 1 or 2 cr. Prescribed for all freshmen and such sophomores as have not attained the requisite development. Men, two hours; women, four hours; weekly.

2. Advanced Exercises. 1 to 4 cr. Systematic courses in athletics. Open to all students who have attained the required degree of organic power and bodily skill. Prescribed for sophomores who have completed course 1. Prerequisite: course 1 or its equivalent.

3. Special Corrective Exercises. 1 or 2 cr. Required of all freshmen and sophomores unfitted to take courses 1 and 2.

4. Efficient Living. The laws of personal and general hygiene. Given with course 1.

19. Practice Teaching. Yr.; 2 cr. Mr. Lowman, Miss Carns.

20. General Technique. a. Men. b. Women. For professional students. The practice course for students majoring or minoring in physical education. Parallel to courses 1 and 2, including in addition, instruction in nomenclature, elementary organization of materials, methods of leading sections and squads, and practice leading in courses 1 and 2. The course covers four years for major and two years for minor students.

21-50. Special Organization and Methods. Cr. to be arranged. Prerequisite: Personal skill in the performance of each activity acquired in course 20 or its equivalent.

Men.

21. Gymnastics (tactics, calisthenics, apparatus, tumbling). 22. Plays and games including tennis and handball. 23. Basketball. 24. Track and field. 25. Swimming and boating. 26. Dancing (men and boys). 27. Baseball. 29. Football—American. 30. Soccer, field hockey, and ice hockey. 34. Boxing, fencing, and wrestling.

21, 22, 23, 24 required for major or certificates.

Women.

41. Gymnastics (tactics, calisthenics, apparatus). 42. Plays and games. 43. Folk dancing. 44. Basketball and field hockey. 45. Swimming and boating. 46. Advanced folk and esthetic dancing. 47. Baseball and track and field. 48. Rowing. 50. Fencing, archery, and tennis.

41, 42, 43, 44 required for major or certificates.

***16. First Aid to the Injured.** I; 1 cr. Mr. Elsom.

56. Kinesiology. I; 2 cr. Prerequisites: course 20 and Anatomy 121. Miss McKee.

107. Physiology of Exercise (Physiology 116). I; 3 cr. Prerequisites: course 56 and Physiology 105 or 115 (see Department of Physical Education). Mr. Eyster, Mr. Dawson, Mr. Meek.

***55. History and Principles of Physical Education.** II; 3 cr. Prerequisites: General Physics first semester, Zoology 1b. Mr. Elsom.

***59. Nature, Function and Organization of Play.** I; 3 cr. Prerequisite: Philosophy 1. Mr. Lowman.

114. Medical Examination. II; 3 cr. (Clinical Medicine 101.) Prerequisites: Anatomy 121 and Physiology 105 or 115. Mr. Evans.

63. Physical Examinations and Gymnastic Therapeutics. Yr.; 2 cr. Prerequisites: Anatomy 121 and Physical Education 56. Either preceded by or taken in conjunction with Physical Education 107 and 114. Mr. Elsom, Miss Lippitt.

90. Principles of Teaching and Adaptation. I; 3 cr. Prerequisites: courses 20 and 59 or 55. Miss Trilling.

68. Organization and Administration of Physical Education. II; 2 cr. Prerequisites: courses 20, 55, 59 and 90. Mr. Lowman.

71. Scouting and other Adolescent Organizations. Theory and Practice. II; 2 cr. Prerequisites: Philosophy 1 and Physical Education 59, or 3 cr. in education or sociology. Mr. Elsom.

***80. Community Recreation.** II; 2 cr. Prerequisites: Physical Education 59, or three credits in education or sociology. Mr. Elsom.

PHYSICS

Professors Mason, Mendenhall, Snow (chairman); Associate Professors Ingersoll, Roebuck, Terry; Assistant Professor Steve; Instructors Eldridge, Greenslade, Hoover, Petersen, Phelps, Williamson; Assistants Briggs, Farnsworth, Frazier, Green, Jansky, Nettleton, Price, Taylor; Student Assistants Anderson, Hantzsch, Rollefson, Siegel, Terry, Watson, Wiepking.

Fellow, L. L. Call.

Honorary Fellow, E. V. Floyd.

Research Fellow, B. L. Conley.

Research Assistants, L. B. Slichter, D. L. Hay.

In order to adapt the instruction in physics to students of different degrees of preparation, the introductory course is given in two sec-

tions, designated as courses 1 and 1S. Course 1 is arranged for those who have had no high school preparation in physics and who are taking this subject as a general informational or cultural study. Course 1S, which presupposes a year of physics in the high school, is more fundamental in character and furnishes a better preparation for courses 2-5.

Following these general courses four others of an elementary character are given for all who desire a further knowledge of the subjects treated in courses 1 and 1S and for those who are preparing to teach. Courses 108-120 are more advanced in nature and lead to courses 210-220 which are strictly graduate in character and are designed for those who are making a special study of the higher branches of physics.

For Undergraduates

1. General Physics. Yr.; 5 cr. For those who have had no high school preparation in physics. Mr. Snow, Mr. Ingersoll and staff, and instructors.

1Sc. General Physics. Yr.; 5 cr. For those who have had a year's course of physics in the high schools. Mr. Snow, Mr. Ingersoll and staff, Mr. Eldridge, Mr. Hoover, Mr. Petersen, Mr. Roebuck.

2. Light and Heat. I; 3 cr. Intended to follow courses 1 or 1Sc, and leads to course 117. Mr. Roebuck.

3. Laboratory in Light and Heat. I; 2 cr. Designed to accompany course 2. Mr. Roebuck.

4. Electricity and Magnetism. II; 3 cr. Introductory to course 116. Mr. Terry.

5. Laboratory Practice in Electricity and Magnetism. II; 2 cr. Designed to accompany course 4. Mr. Terry, Mr. Greenslade.

7. Photography. II; 2 cr. Mr. Roebuck.

90. The Teaching of Physics. II; 2 cr. Mr. Steve.

100. Thesis. Yr.; 2 cr. Mr. Ingersoll, Mr. Terry, Mr. Roebuck.

Engineering Courses

51. Mechanics, Sound and Light. I; 5 cr. Mr. Terry, Mr. Ingersoll, and staff.

52. Heat, Electricity and Magnetism. II; 5 cr. Mr. Terry, Mr. Ingersoll, and staff.

53. Mechanics and Heat. I; 3 cr. Required of sophomores in electrical engineering. Mr. Terry, Mr. Ingersoll, and staff.

54. Electricity, Magnetism and Sound. II; 3 cr. Continuation of course 53. Mr. Terry, Mr. Ingersoll, and staff.

55. Advanced Electricity and Magnetism. I; 3 cr. Required of juniors in electrical engineering. Mr. Terry, Mr. Greenslade, and Mr. Jansky.

56. Advanced Electricity and Light. II; 3 cr. Continuation of course 55. Mr. Terry, Mr. Greenslade, and Mr. Jansky.

Agricultural Courses

61. Mechanics and Heat, Electricity and Magnetism. Yr.; 3 cr. Prerequisite: Mathematics 71. Mr. Steve.

65. General Physics. Yr.; 3 cr. Required of sophomores in home economics. Mr. Snow, Mr. Steve, Mr. Ingersoll, and staff.

For Undergraduates and Graduates

108. Elements of Radio-telegraphy. I; 3 cr. Prerequisites: Physics 1 or equivalent. Mr. Terry, Mr. Jansky.

110. Laboratory Arts. I; 1 cr. A course in technique. Mr. Roebuck, Mr. Foerst.

111. Advanced Photography. I; 2 cr. Practice in the reproduction of color values. Mr. Brown.

112. High and Low Temperature Measurements. I; 2 cr. Mr. Ingersoll.

113. Modern Optical Instruments. II; 1 cr. An advanced laboratory course, designed to follow courses 2 and 3, which are prerequisites, or to accompany course 117. Mr. Ingersoll.

114. Advanced Electrical and Magnetic Measurements. II; 2 cr. Prerequisite: course 5 or 55. Mr. Terry, Mr. Greenslade.

116. Introduction to the Theory of Electricity. I; 3 cr. Mr. Terry.

117. Physical Optics. II; 3 cr. Mr. Ingersoll.

118a. Kinetic Theory of Gases. I; 3 cr. Mr. Ingersoll.

118b. Mathematical Theory of Heat Conduction. II; 3 cr. Mr. Ingersoll.

119. Advanced Laboratory Practice. Yr.; 3 cr. For those beginning graduate study. Mr. Ingersoll, Mr. Mendenhall, Mr. Roebuck, Mr. Terry.

120. Colloquium. Yr.; 2 cr. Mr. Ingersoll.

For Graduates

211. The Electron Theory of Matter. Yr.; 3 cr. (Omitted 1920–21.) Mr. Mason.

213. Statistical Mechanics. II; 2 cr. (Omitted 1920–21.) Mr. Mason.

214. Thermodynamics. Yr.; 3 cr. (Omitted 1920–21.) Mr. Roebuck.

215. Theory of Electricity. Yr.; 3 cr. Mr. Mason.

216. The Electromagnetic Theory of Light. Yr.; 3 cr. Mr. Mendenhall.

217. Seminary. The Electron Theory of Metals. II; 2 cr. Mr. Mason.

218. Seminary. Phenomena of Line Emission and Absorption. I; 2 cr. Mr. Mendenhall.

220. Graduate Research. Yr.; hours to be arranged. Mr. Mason, Mr. Mendenhall.

For courses on Mechanics, Advanced Dynamics, Harmonic Analysis, etc., see announcement by the Department of Mathematics.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

Professors Eyster (chairman), Bradley, Meek; Assistant Professor Dawson; Assistants Bemis, Huston, Leake, Machlis, Reid, Ronzone, Umbreit.

For Undergraduates

1. Elements of Physiology. I; 3 cr. Especially adapted to teachers of elementary physiology and hygiene. Required of sophomores in the Course in Home Economics (2 cr.); open to other students, who should have had some chemistry. Mr. Meek.

2. Elements of Physiology. I; 1 cr. Laboratory. Required of sophomores in the Course in Home Economics, open to others as an elective. Mr. Meek and assistants.

3. Animal Physiology. II; 4 cr. Primarily adapted to students in agriculture, but open to others as an elective. Prerequisites: chemistry and zoology. Mr. Meek, Mr. Leake, Miss Reid.

For Undergraduates and Graduates

104. Physiological Chemistry. I; 4 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Mr. Bradley and assistants.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prereq-

uisite: general and organic chemistry, physics, and biology. Mr. Bradley and assistants.

105. Physiology. II; 9 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: comparative or human anatomy, histology, neurology, and physiological chemistry. Mr. Eyster, Mr. Meek, Mr. Dawson, and assistants.

115. Physiology. II; 7 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: Anatomy 105, Physiological Chemistry 104 or 114. Mr. Eyster, Mr. Meek, Mr. Dawson, and assistants.

116. Physiology of Exercise. I; 3 cr. Required of seniors in physical education; open to others as an elective. Prerequisite: Physiology 105 or 115. Mr. Dawson, Miss Ronzone.

117. Advanced Physiological Chemistry and Research. Yr.; credit according to work done. Mr. Bradley.

118. Advanced Physiology and Research. Yr.; credit according to work done. Mr. Eyster, Mr. Meek.

120. Journal Club. Yr.; 1 cr. Mr. Eyster.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students of medicine who desire a wider experience in experimental physiology than can be gained in course 105. Mr. Eyster, Mr. Meek.

210. Advanced Laboratory Course in Physiological Chemstry. Corresponds to course 208.

POLITICAL SCIENCE

Emeritus Professor Parkinson; Professors Lloyd Jones, Ogg (chairman); Associate Professor Hall; Instructor Stuart; Lecturer MacGregor; Assistants Bruce, Saunders, Taylor.

Scholar, Mr. Weeks.

Fellow, ——

The work in the Department of Political Science is designed to give a scientific account of the varied activities of the state, and of the methods of determining state action through the electorate and legislative bodies. Some of the courses are intended primarily to give an understanding of public affairs, and of the rights and duties

of citizenship, such as should be comprehended in any liberal education; others are planned to involve more specialized study of methods and problems in the different branches of administration, legislation, and judicial procedure. A number of the courses have practical ends directly in view, in that they aim to provide training in technique or method in certain fields of political action. It is the aim of the department to provide the broadest inductive basis, to train the powers of observation and reason, to develop correct methods of research, and to bring to bear upon the solution of practical problems in the life of the commonwealth and nation the information and facility thus acquired. Certain courses aim to give equipment for the various branches of public service. A special series is arranged with reference to the needs of pre-legal students.

Candidates for the degree of doctor of philosophy who are taking their major in the department will be expected to be familiar with the entire field of political science as treated in the general courses. They should have an intensive knowledge of at least two of the following general divisions of the subject: public administration, public law, world politics, political philosophy, jurisprudence. Every candidate should be thoroughly familiar with the American state and federal government, and with the organizations and workings of the principal governments of Europe.

The courses primarily for undergraduates are open for election in the sophomore, junior and senior years. Courses numbered between 1 and 100 may be taken only for undergraduate credit. Graduate majors are expected to be familiar with the subject matter of courses 1, 2, and 7. Course 7 is repeated each semester and should be taken either precedent to, or along with, any of the following specialized courses in American government, politics, and law: 13, 29, 108, 111, 112, 114, 116, 117, 122, 125, 126, 127, 128, 130. The minimum requirement for an undergraduate major in political science, in addition to the thesis, is twenty-one semester hours.

For Undergraduates

1. General Political Science. I or II; 3 cr. An introductory course. May be taken either precedent to or with other courses. (Omitted 1919–20.)

2. Elementary Law. I; 3 cr. A general elective, recommended especially to pre-legal students and others interested in the legal phases of social science. Mr. Hall.

7. Government and Politics in the United States. I or II; 4 cr. An introductory course. Prerequisite for certain courses as indicated above. Mr. Hall and staff.

13. Municipal Government. II; 3 cr. Mr. MacGregor.

23. American Foreign Service. I; 2 cr. (Omitted in 1919–20.)

29. Teachers Course. II; 2 cr. (Omitted 1919–20.)

32. Contemporary Political Topics. II; 2 cr. Designed for students preparing for journalism. Mr. Ogg.

For Undergraduates and Graduates

108. Administrative Problems. II; 2 cr. (Omitted 1919–20.)

109. Roman Law. I; 3 cr. A knowledge of Latin is not required. (Omitted 1919–20.)

111. Jurisprudence. II; 3 cr. Open to students who have had an elementary course in law. (Omitted 1919–20.)

112. American Constitutional Law. II; 3 cr. Mr. Hall.

114. Municipal Functions. II; 3 cr. Mr. MacGregor.

115. Practical Problems of Municipal Government. II; 2 cr. Open only to students who have had, or are having, a general course in municipal government. Mr. MacGregor.

116. State Administration. II; 3 cr. (Omitted in 1919–20.)

117. Federal Administration in the United States. II; 3 cr. Mr. Ogg.

118. International Law. I or II; 3 cr. Mr. Page.

120. Far Eastern Politics. II; 3 cr. (Omitted 1919–20.)

121. Colonial Politics. II; 3 cr. (Omitted in 1919–20.)

122. American Party Government. II; 3 cr. Mr. Stuart.

124. British Self-Governing Colonies. I; 3 cr. Mr. Ogg.

125. Modern Imperialism. II; 3 cr. Mr. Ogg.

126. The Theory and Practice of Legislation. Yr.; 2 cr. Mr. Lloyd Jones.

127. Government and Politics of England. I; 3 cr. Mr. Ogg.

128. Government and Politics of Continental Europe. II; 2 cr. Mr. Ogg.

129. Practical Problems of Democracy. I; 2 cr. Mr. Hall.

130. Judicial Administration. I; 2 cr. (Omitted 1919–20.) Mr. Hall.

131. Latin-American and World Politics. II; 2 cr. Mr. Stuart.

136. American Diplomacy. II; 3 cr. (Omitted 1919–20.)

137. Modern Internationalism. II; 2 cr. (Omitted 1919–20.)

138. Contemporary International Relations. I; 2 cr. (Omitted 1919–20.)

142. Public Utilities. Yr.; 2 cr. Mr. Hess.

145. History of Political Thought. I; 3 cr. Mr. Ogg.

148. The Law of the Press. II; 2 cr. (Omitted 1919–20.)

For Graduates

201. Administrative Law I. I; 2 cr. Prerequisites: courses 7, 112. Mr. Hall.

202. Administrative Law II. II; 2 cr. Prerequisites: courses 7, 112. Mr. Hall.

203. Administrative Law III. I; 2 cr. Prerequisites: courses 7, 112. (Omitted 1919–20.) Mr. Hall.

204. Administrative Law IV. II; 2 cr. Prerequisites: courses 7, 112. (Omitted 1919–20.) Mr. Hall.

208. Interstate Commerce Law. II; 2 cr. Prerequisite: course 7. Mr. Hall.

218. International Law as Administered by the Courts. II; 2 cr. (Omitted 1919–20.)

252. Seminary in Comparative Legislation. Yr.; 2 cr. May be elected by semesters. Prerequisites: courses, 7, 112. Mr. Lloyd Jones.

255. Seminary in the Diplomacy of the Great War. II; 2 cr. (Omitted in 1919–20.)

256. Seminary in Contemporary Political Thought. II; 2 cr. Prerequisite for undergraduates (only seniors admitted): course 145.

258. Seminary in Administration. II; 2 cr. Prerequisites: courses 116, 117. (Omitted in 1919–20.)

260. Seminary in International Law and Politics. Yr.; 2 cr.

261. Seminary in American Constitutional Law. II; 2 cr. Prerequisites: courses 7, 112. Mr. Hall.

For information concerning groups of studies arranged as special training courses students are invited to communicate with the chairman or the individual professors of the Department of Political Science.

PUBLIC SPEAKING

Professor O'Neill (chairman); Associate Professor Blanton; Assistant Professors Houghton, Johnson, Weaver; Instructor Flemming; Assistants Anderson, Black, Burlingame, Hatch, Holcombe.

These courses are designed to give preparation in three general lines of work: (a) In argumentation and debate, and the composition and delivery of all kinds of public speeches; (b) in interpre-

tive reading and dramatic presentation; (c) in voice training and the correction of speech defects. The courses are so arranged as to make possible systematic and progressive study during the sophomore, junior, and senior years. No courses in public speaking are open to freshmen.

Attention is called to the system of prerequisites in this department. Three courses only are open to beginners—3a, 7, and 12a.

The University of Wisconsin participates in several intercollegiate contests in oratory and debate, and further opportunity for practice outside of regular courses is to be found in local student activities in drama, oratory, and debate. Students interested in these activities should take the following courses in preparation: For dramatic work, 12, 16, 17, 19; for oratory, 7, 13, 105; for debate, 3a, 7, 8, 11.

Courses 3a, 3b, 11 and 105 may be counted toward the English major. Not more than 16 hours of public speaking may be counted toward the bachelor's degree, except as permitted by the provisions of the teaching major. Courses 3a and 3b, listed also as courses in English, are part of the work of this department.

A major can be obtained only as permitted by the provisions of the teaching major. A minor is sixteen credits in selected courses approved by the chairman of the department, including 3a and either 190a or 190b.

A teaching major may be obtained under the following conditions:

1. It is open only to candidates for the B. A. degree and the University Teachers Certificate who are intending to become teachers of public speaking, and who are definitely accepted by this department as satisfactory candidates for this major.

2. The department requirement is not less than 20 nor more than 24 credits, excluding thesis and departmental teachers courses.

For Undergraduates

Speech Clinic. Throughout the university year. Free to all students. Expert guidance and assistance in the eradication of voice and speech defects of all kinds. Open fifteen to eighteen hours a week, so arranged as to make it possible for any student to get whatever treatment is needed. Mr. Blanton and staff.

3a. Argumentation. I and II; 3 cr. Open to all students except freshmen. Mr. O'Neill.

3b. Argumentative Addresses. II; 2 cr. Continuation of 3a. Written argument. Prerequisite: course 3a. Mr. O'Neill.

7. Elements of Public Speaking. I and II; 3 cr. Open to all students except freshmen. Mr. Flemming, Mr. Holcombe.

8. Extempore Speaking. II; 2 cr. Prerequisite: course 7. Mr. Flemming, Mr. Weaver.

11. Debating. II; 2 cr. Continuation of 3a. Oral argument. Prerequisite: course 3a. Mr. O'Neill, Mr. Weaver.

12a. Fundamentals of Vocal Expression. I; 3 cr. Recommended to those intending to teach literature and reading. Open to all students except freshmen. Miss Johnson, Miss Hatch.

12b. Continuation of 12a. II; 3 cr. Prerequisite: course 12a. Miss Johnson, Miss Hatch.

13. Formal Oratory. II; 2 cr. Open only to those who receive the previous assent of the instructor. Prerequisite: course 8 or 11 or 105. Mr. O'Neill.

16a. Interpretative Reading. I; 2 cr. Review of 12a and 12b. Prerequisite: course 12b, or permission of instructor. Miss Johnson.

16b. Continuation of 16a. II; 2 cr. Prerequisite: course 16a. Miss Johnson.

17. Dramatic Personation. I; 2 cr. Designed for those who show marked dramatic ability, and who wish to specialize in dramatic platform work. Prerequisite: course 16b and permission of instructor. Miss Johnson.

19. Dramatic Production. II; 3 cr. Open only to majors and minors in public speaking. Miss Johnson.

21. Voice Training and Phonetics. I; 2 cr. Designed for teachers, especially those majoring in public speaking or English. Open to others by permission of the instructor. Mr. Blanton.

25. Correction of Speech Defects. II; 2 cr. Prerequisite: course 21. Mr. Blanton.

For Undergraduates and Graduates

105. Speech Composition. I; 3 cr. Prerequisite: course 3a or 8 or one year in English composition after freshman year. Mr. O'Neill.

125. Advanced Correction of Speech Defects. II; 3 cr. Mr. Blanton.

141. Psychology of Reading and Speaking. I; 3 cr. (Omitted 1919–20.) Mr. Weaver.

190a. Seminary in Teachers Problems. I; 2 cr. Open only to graduates and senior majors and minors in public speaking. Mr. Weaver and staff.

190b. Seminary in Teachers Problems. II; 2 cr. Open only to graduates and senior majors and minors in public speaking. Mr. Weaver and staff.

For Graduates

201. Seminary in Voice and Speech. Yr.; 2 hrs. Mr. Blanton.

205. Seminary in Rhetoric and Oratory. Yr.; 2 hrs. Mr. O'Neill.

ROMANCE LANGUAGES

Emeritus Professor Owen; Professors Giese, Smith (chairman); Associate Professors Cerf, Schlatter; Assistant Professors Atkin, Cheydleur, Cool, Ernst, Gay, Gillen, Lyon, Michell, Muller, Ortega, Reed; Instructors Bradley, A. C, Cardon, L. Cardon, Espinosa, C. H. Greenleaf, J. H. Greenleaf, Grundler, Halverson, Helie, Johnson, Jordan, Kinne, McClintock, Phillips, Raymond, Scallon, Sprague, Wilson; Assistants Brown, Casis, Chabaud, Conklin, Cortes, Dejean, Gilbert, Jennings, Mariategui, Malone, Pflueger, Ross, Salvan, Titchener, Treille; Readers E. D. Michell, Rudy, F. Smith.

Fellow, Miss Garwood.

Scholars, Miss Buell, Miss Deakin.

French Scholars, Mlle. Treille, Mlle. Dejean.

French courses numbered below 10 are for students who have had no French, or who have had less than two years in the high school. Students with only one year of high school French or its equivalent should enter course 1b.

Courses 10-16 are for students who have had one year of college French, or two years of high school French. Students who have had more than two years of high school French should consult with the department concerning the course to enter.

All courses above 19 require at least French 10, or an equivalent course as prerequisite. Students entering these courses with the minimum prerequisite are advised to begin, if possible, with 21 as the first literature course. However, especially well prepared students may be allowed to enter 122, 123, 136 and 137. Suitable courses which may be taken in addition to the above, or alone, are 16, 20, 124.

Students with less than three years of college French should consult the instructor before entering 125, 126, 127, 128, 131, 132, 133, or 139. These are intended primarily for students who have already taken one course above French 19.

All courses in the 200 group are for graduates.

Courses marked C are intended for commerce students. Similar courses are given for students of the College of Letters and Science, who will not be allowed to take commerce courses except by special permission of the chairman of the department.

The insertion of CL after a course number indicates that the course belongs also to Comparative Literature.

Major

Students are allowed to major in French or Spanish. An undergraduate major is not offered in Italian. In French the student must take at least 24 hours in advance of first year French; in Spanish twenty-two credits in advance of first year Spanish.

A student taking a second Romance language does not count it as a part of his major, nor is it counted in the maximum forty hours allowed in one subject.

Students expecting to teach French as a major must take a minimum of twenty hours in advance of second year French. They are required to take the following French courses: 90, 190, four credits in composition and conversation, and at least six credits in French literature.

Students expecting to teach Spanish as a major must take a minimum of twenty-two credits in advance of Spanish 1. They are required to take 90 and at least two credits in composition and conversation.

Minor

For a minor in Spanish ten credits in advance of second year Spanish are required. At least two credits in composition or conversation must be included.

For a teaching minor in French there is required a minimum of twelve hours in advance of second year French. At least two credits in composition or conversation and at least three credits in some general course of French literature must be taken.

Clubs

Students are selected from classes beyond French 10 and offered the privilege of joining conversational clubs which meet every Wednesday evening. Similar organizations exist for students in Spanish, meeting fortnightly on Tuesday evenings.

French and Spanish comedies are presented from time to time by the clubs. During the course of the year two more pretentious French plays are staged as elaborately as possible.

French House

A French House intended especially for intensive training in speaking French is maintained by the Department of Romance Languages. It is open to women students for room and board. Both men and women rooming outside the house may take their meals there. French women reside in the house to aid in conversation, and they, with regular instructors, preside at the tables. The language of the house is French. This house is also the headquarters for the various French clubs. Students desiring to reserve places for either the summer session or the regular term should apply well in advance to the Department of Romance Languages.

FRENCH

I. LANGUAGE

For Undergraduates

1a. Beginning French. I or II; 4 cr. Mr. Ernst and staff.

1b. Second Semester French. I or II; 4 cr. Prerequisite: one semester of college French or its equivalent. Mr. Ernst and staff.

10. Second Year French. Yr.; 3 cr. Prerequisite: one year of college or two years of high school French. Mr. Michell and staff.

To secure four or five credits French 10 should be combined with French 13, 14, 15, or 16.

11. French Composition and Conversation. Yr.; 2 cr. Except by special permission, to be taken only with some other French course. Mr. Atkin and staff.

12. Third Semester French. II; 4 cr. Prerequisite: French 1b. Mr. Michell and staff.

13. Rapid Sight-Reading. Yr.; 1 cr. Except by special permission to be taken only with some other French course. Mme Cardon, Mr. Gillen, Mlle Hélie, Mr. Wilson.

14. French Composition. Yr.; 1 cr. Supplementary to French 10 and except by special permission, to be taken only with some other French course. Mr. Bradley, Mr. Halverson, Mr. Kinne.

16. Conversation and Reading. Yr.; 2 cr. Prerequisite: French 15 or its equivalent. Mrs. Greenleaf, Mlle Treille, M. Cardon, M. Muller.

18. French Journalism. Yr.; 1 cr. in French and 1 cr. in journalism. Mr. Ernst.

20. Advanced Reading. Yr.; 2 cr. Mr. Wilson, Mr. Kinne.

90. Theory and Practice of Teaching of French and Spanish. I or II; 2 cr. Mr. Smith, Miss Johnson.

For Undergraduates and Graduates

124. Composition and Conversation. Yr.; 2 cr. Open to students who have had two or more years of French. Miss Gay, Mrs. Greenleaf, M. Muller.

190. Phonetics. I or II; 2 cr. Mrs. Greenleaf.

II. LITERATURE

Course 20 or 21 or the equivalent is prerequisite to all other courses in literature.

For Undergraduates

21. Elementary Survey. Yr.; 3 cr. Five sections. Mr. Atkin, Mr. Cheydleur, Mr. Ernst, Mr. Giese, Mr. Michell.

50CL. Masterpieces of Romance Literature in Translation. Yr.; 2 cr. Mr. Cerf. See Comparative Literature 50.

For Undergraduates and Graduates

100. Thesis Course. Yr.; 2 cr. Open only to seniors and graduates. Three sections: 1. Rousseau and Chateaubriand, Mr. Atkin; 2. The Romantic Poets, Mr. Giese; 3. The Seventeenth Century, Mr. Giese.

122. French Literature of the Nineteenth Century. Yr.; 2 cr. Mr. Atkin.

123. Modern French Drama. Yr.; 3 cr. Mr. Smith.

125. Contemporary French Literature. Yr.; 3 cr. Conducted in French. Mr. Ernst.

126. French Poetry. II; 3 cr. Follows French 133. Conducted in French. M. Cardon.

128. French Prose Writers of the Seventeenth Century. II; 3 cr. (Omitted 1919–20.) Miss Gay.

131. General Survey of French Literature. Yr.; 3 cr. Mr. Reed.

132. French Literature of the Eighteenth Century. II; 3 cr. (Omitted 1919–20.) Mr. Michell.

133. Victor Hugo. I; 3 cr. Followed by French 126. Conducted in French. M. Cardon.

136. The French Novel from the Seventeenth Century to the Twentieth. I; 3 cr. Mr. Cheydleur.

137. Molière. II; 3 cr. (Omitted 1919–20.) Mrs. Greenleaf.

138. Survey of French Drama from the Renaissance to the Romantic School. Yr.; 2 cr. Mr. Michell.

139. French Drama of the Seventeenth Century. I; 3 cr. (Omitted 1919–20.) Mr. Ernst.

I. LANGUAGE

For Graduates

227. Advanced Composition and Conversation. Yr.; 1 cr. Open to students who have had 124 or its equivalent. Mrs. Greenleaf, Mr. Grundler.

240. Old French. Yr.; 2 hours. An introductory course. Miss Gay.

244. Old Provençal. Yr.; 2 hours. Mr. Reed.

249. Chrétien de Troyes. Yr.; 2 hours. Prerequisite: French 240 or its equivalent. (Omitted 1919–20.) Miss Gay.

II. LITERATURE

242. Old French Epic Poetry. Yr.; 2 cr. (Omitted 1919–20.) Mr. Smith.

246. Seminary in French Paleography. Yr.; 2 cr. (Omitted 1919–20.) Mr. Smith.

247. From Froissart to Rabelais. Yr.; 2 cr. (Omitted 1919–20.) Miss Gay.

248CL. Medieval Literature. Yr.; 2 cr. (Omitted 1919–20.) Mr. Reed.

250CL. The Renaissance in Romance Countries. Yr.; 2 cr. Mr. Cerf. See Comparative Literature 250.

252CL. Seminary in Ancient French Drama. Yr.; 2 cr. Mr. Smith.

253. Seminary in French Literature. Yr.; 2 cr. Classicism. (Omitted 1919–20.) Mr. Giese.

254. Seminary in French Literature. Yr.; 2 cr. Romanticism. (Omitted 1919–20.) Mr. Cerf.

256. Criticism. Yr.; 2 cr. The principles of literary criticism in their historical development. (Omitted 1920–21.) Mr. Giese, Mr. Cerf.

ITALIAN

I. LANGUAGE

For Undergraduates and Graduates

1. Elementary Italian. Yr.; 3 cr. Mr. Cerf.

II. LITERATURE

For Undergraduates and Graduates

102. Italian Literature. Yr.; 3 cr. (Omitted in 1919–20.) Mr. Michell.

160. Dante. Yr.; 3 cr. The *Divine Comedy*. Mr. Cerf.

PORTUGUESE

271. Portuguese Language and Literature. II; 2 cr. Mr. Reed.

SPANISH

First and second semester courses in Spanish are numbered below 10. The prerequisite for courses 10-20 is one year of college Spanish or its equivalent. For courses above 20 the prerequisite is two years unless otherwise stated.

Students majoring in Spanish may count commerce courses toward the major only where permission has been given to take such courses.

The teachers course in French (French 90) is accepted for the Spanish major, separate review, observation, and practice work being required.

I. LANGUAGE

For Undergraduates

1a. Beginning Spanish. I or II; 4 cr. Mr. Reed and staff.

1b. Second Semester Spanish. I or II; 4 cr. Mr. Reed and staff.

10. Third Semester Spanish. II; 4 cr. Prerequisite: Spanish 1b or its equivalent. Mr. Cool and staff.

12. Second Year Spanish. Yr.; 3 cr. Prerequisite: Spanish 1b or its equivalent. Mr. Cool and staff.

15. Elementary Conversation. Yr.; 1 cr. Supplementary to Spanish 12 or 17C. To be taken only in connection with some other Spanish course, except by consent of the instructor. 2 sections. Mr. Lyon, Mr. Cortes.

16. Composition and Conversation. Yr.; 2 cr. Prerequisite: Spanish 15 or its equivalent. To be taken only in connection with some other Spanish course, except by consent of the instructor. Mr. Lyon.

17C. Second Year Commerce. Yr.; 4 cr. Open to other than commerce students only by special permission. Mr. Cool and staff.

27C. Third Year Commerce. Commercial letter writing. Yr.; 2 cr. Mr. Cool.

II. LITERATURE

For Undergraduates and Graduates

102. Spanish Contemporary Novel and Drama. Yr.; 3 cr. Conducted mainly in Spanish. Prerequisite: two years of Spanish,

except by permission of the instructor. (Omitted 1919–20.) Mr. Ortega.

103. Spanish Lyric Poetry. II; 3 cr. Conducted mainly in Spanish. Prerequisite: two years of Spanish, except by permission of the instructor. (Omitted 1919–20.) Mr. Ortega.

104. Don Quijote. Yr.; 3 cr. Prerequisite: two years of Spanish, except by permission of the instructor. Mr. Reed.

105. Eighteenth and Nineteenth Century Spanish Literature. Yr.; 3 cr. Prerequisite: Spanish 12 or 17C or equivalent. Mr. Lyon.

111. The Spanish Novel. Yr.; 2 cr. From its origins through the nineteenth century. Mr. Cool.

For Graduates

270. General Survey. Yr.; 2 cr. Mr. Reed.

VULGAR LATIN

272. Origins of the Lingua Vulgaris. Yr.; 2 cr. (Omitted 1919–20.) Mr. Reed.

273. Romance Philology. Yr.; 2 cr. Mr. Reed.

SCANDINAVIAN LANGUAGES

PROFESSOR OLSON.

LANGUAGE AND LITERATURE

For Undergraduates

1. First Year Norse. Yr.; 4 cr. Primarily for freshmen.

2. Second Year Norse. Yr.; 3 or 4 cr. Haereid's *Norges Historie* is read for the extra credit. A continuation of course 1.

3. Norse Grammar and Literary Readings. Yr.; 3 cr. For students who have some familiarity with the spoken language, or who have a good knowledge of other foreign languages.

4. Novels and Dramas. Yr.; 2 or 3 cr. Jonas Lie's novel *Den Fremsynte* is read for the extra credit. A continuation of course 2 or 3.

5. Ibsen's Dramatic Poems. Yr.; 2 or 3 cr. *Boken om Norge*, IV. is read for the extra credit of each semester.

21. Composition and Conversation. Yr.; 2 cr. Course 2 or 3 is a prerequisite.

6. History of Dano-Norwegian Literature. Yr.; 2 cr. Broch og Seip's *Litteraturhistorie* and *Boken om Norge*, V.

61. Swedish Literature. Yr.: 2 cr. Designed primarily for students who read modern Norse.

70. Norse Mythology and the Volsunga Saga. I; 2 cr.

71. Early Scandinavian Life and Literature. II; 2 cr. Lectures, with readings from the sagas in translation.

Courses 70 and 71 are given in alternate years; the latter will be given in 1920.

72. Scandinavian Classics. I; 2 cr.

73. Modern Norse Literature. II; 2 cr.

74. Ibsen's Brand and Peer Gynt. I; 2 cr.

Courses 70, 71, 72, 73, and 74 are lecture courses and a knowledge of the Scandinavian languages is not required.

For Undergraduates and Graduates

102. Modern Norse. Yr.; 2 cr. A rapid reading course for graduates who have a good knowledge of other modern languages.

109. Modern Norwegian Novels and Dramas. Yr.; 2 cr

110. Modern Norwegian Poetry. I; 1 cr.

111. Norwegian Dialect Writers. II; 1 cr.

112. Scandinavian Literature. Yr.; 2 cr. A general survey.

SEMITIC LANGUAGES AND HELLENISTIC GREEK

Emeritus PROFESSOR WILLIAMS; ASSISTANT PROFESSORS KELLY, WOLFENSON (CHAIRMAN).

FELLOW, MR. ANDERSON.

SCHOLAR, E. H. ROBERTS.

The general student may gain an acquaintance with the nature of the Semitic peoples and genius from the courses given in English, for which no knowledge of foreign language is necessary, viz., courses 23 and 24 Hebrew History, 26 Geography and Archaeology of Palestine, and 28 Survey of Hebrew Literature (biblical and post-biblical).

In addition to instruction in Hebrew and Hellenistic Greek (the original languages of the Bible), courses are offered in Arabic, Aramaic, Assyrian, and Syriac; and should occasion arise, opportunity will be given properly qualified students to prosecute studies in post-biblical Hebrew, Ethiopic, Old Egyptian, and Coptic.

The language work of the department may be begun with Hebrew, Hellenistic Greek, or Arabic.

The various courses of this department are adapted to the needs of:

1. The general student, desiring to extend his culture, or with a view to teaching, by becoming acquainted with this non-Indo-European family of languages giving a view of a little known domain of intellectual development of great importance for liberal culture.
2. The intending theological student, or those already in the ministry, since the Semitic peoples furnish materials of the highest importance for theology.
3. The student of comparative religion and comparative literature.
4. The student of ancient history desiring to come into contact with the earliest monuments and records.
5. The student of linguistics, desiring a view of a most important family of languages, a knowledge of which is essential to a thorough understanding of language processes.
6. The student of Semitic languages, literatures, and history for their own sake.

Language Requirements and Freshmen

Courses of this department regularly open to freshmen are Hebrew 1, 2, 3, 4, and 7. These are counted in satisfaction of foreign language requirements.

Freshmen may begin Hellenistic Greek, but the elementary course counts only as an elective and not for foreign language requirements. Courses in Hellenistic Greek in advance of the first-year may be substituted for other foreign languages to the extent of eight credits. Freshmen who are not prepared to take advanced work may take the elementary (first-year) course in Hellenistic Greek (courses 16 and 17), on condition that they continue with the advanced work thus begun.

Major in Semitic Languages and Hellenistic Greek

The requirements for a major in this department are a minimum of 20 credits, including thesis, made up from any of the courses offered, excepting 1 and 2, 16 and 17, in one or more languages. Elementary work in a second language in this department, however, will not be counted as a part of the 40 credits allowed as a maximum in any one department; and the amount of work required will be subject to increase and variation, depending upon the progress and needs of the individual student.

GENERAL COURSES, IN ENGLISH

For Undergraduates

(A knowledge of foreign languages not required.)

23. Hebrew History to Solomon. I; 2 cr. Mr. Wolfenson.

24. Hebrew and Jewish History. II; 2 cr. Mr. Wolfenson.

26. Historical Geography and Archaeology of Palestine. Yr.; 1 or 2 cr. Mr. Kelly.

28. Survey of Hebrew Literature. II; 2 cr. Mr. Wolfenson.

LINGUISTIC COURSES

SEMITIC LANGUAGES

For Undergraduates

1. Elementary Hebrew. Yr.; 4 cr. Mr. Wolfenson.

2. Elementary Hebrew. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of course 1. Mr. Anderson.

3. Second Year Hebrew. Yr.; 2 cr. Mr. Kelly.

Course 3, with additional work assigned by the instructor, may be given graduate credit.

7. Hebrew Prose Composition and Conversation. Yr.; 1 or 2 cr. Mr. Kelly.

31. Elementary Yiddish. I; 3 cr. A knowledge of German or some acquaintance with spoken Yiddish is prerequisite. Mr. Wolfenson.

32. Advanced Yiddish. II; 3 cr. Course 31 or a reading knowledge of Yiddish is prerequisite. Mr. Wolfenson.

For Undergraduates and Graduates

Only a selection of the courses enumerated below is offered in any one year. See the current time-table for the courses offered in any given session.

104. Advanced Hebrew. Yr.; 2 cr. Includes modern Hebrew literature. Mr. Wolfenson.

105. The Minor Prophets. Yr.; 2 cr. An advanced course. Mr. Kelly.

106. The Book of Job. Yr.; 2 cr. Mr. Kelly.

108. Hebrew Syntax. Yr.; 2 cr. Mr. Wolfenson.

112. Elementary Arabic. Yr.; 2 cr. Mr. Wolfenson.

112a. Elementary Arabic. II; 3 cr. For those desiring an opportunity to begin Arabic the second semester. Mr. Kelly.

113. Advanced Arabic. Yr.; 2 cr. Mr. Wolfenson.

114. Elementary Assyrian. Yr.; 2 cr. Mr. Kelly.

115. Talmud. Yr.; 2 cr. Mr. Wolfenson.
127. The Psalms—Books I and II. Yr.; 2 cr. Mr. Kelly.
129. Biblical Aramaic; Syriac. Yr.; 2 cr. Mr. Kelly.

For Graduates

209. Advanced Hebrew Syntax. I; 2 cr. Mr. Wolfenson.
210. Advanced Hebrew Etymology. II; 2 cr. Mr. Wolfenson.
211. Hebrew Seminary. Yr. A knowledge of Hellenistic Greek, Latin, German, and French, is necessary for the most effective work, but a knowledge of all the languages specified is not indispensable. Mr. Kelly.
230. Semitic Epigraphy. Yr.; 2 cr. Mr. Kelly.

HELLENISTIC GREEK

For Undergraduates

16. Elementary Hellenistic Greek. Yr.; 4 cr. For those who have not studied classical Greek. Mr. Anderson.
17. Elementary Hellenistic Greek. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of 16. Mr. Kelly.
18. Second Year Hellenistic Greek. Yr.; 2 cr. Mr. Kelly.

For Undergraduates and Graduates

119. Advanced Hellenistic Greek. Yr.; 2 cr. Mr. Wolfenson.
120. The Book of John. Yr.; 2 cr. (Not given 1919–20.)

For Graduates

221. Hellenistic Greek Seminary. Yr. French, German, Latin, and Syriac are necessary for the most effective work. Mr. Wolfenson.
222. Advanced Hellenistic Greek Grammar. Yr.; 2 cr. Mr. Wolfenson.

ZOOLOGY

Professors Guyer (chairman), Pearse; Associate Professors Marshall, Wagner; Assistant Professor Smith; Lecturer Juday; Assistants Chase, Cole, Cunningham, Forster, Nesbit, Noland.

A minimum of thirty credits is required for a major; besides the thesis this should include:

Zoology 1a and 1b or Biology 1; Zoology 9, 102, 104a, and 105. One elementary course in botany is required of those who have not taken Biology 1.

For the advanced courses, training in chemistry and ability to read French and German are desirable.

Medical students will find courses 6, 11, 19, 104a, and 105 of special interest.

Agricultural students will find courses, 6, 9, 19, 21 and 110 to 113 of special interest.

For Undergraduates

1a. General Zoology. I; 5 cr. Courses 1a and 1b combined will satisfy the natural science requirement. Mr. Pearse and staff.

1b. Animal Biology. II; 5 cr. The second semester of Biology 1 or Zoology 1a. Mr. Guyer and staff.

3. Elementary Zoology. II; 3 cr. For agricultural students. Mr. Wagner and staff.

4. Elementary Embryology. I; 2 cr. For students of home economics. Miss Smith.

6. Heredity and Eugenics. I; 2 cr. Mr. Guyer.

For other courses in heredity see 107; botany 156; genetics 101.

9. Elementary Entomology. II; 3 cr. Mr. Marshall.

21. Ornithology. II; 2 cr. Mr. Wagner.

90. The Teaching of Zoology. II; 2 cr. Mr. Pearse.

100. Thesis Course. For undergraduates.

For Undergraduates and Graduates

102. Invertebrate Zoology. I; 5 cr. Mr. Wagner.

104a. Comparative Anatomy of Vertebrates. I; 5 cr. Mr. Wagner.

104b. Vertebrate Zoology. II; 3 cr. Mr. Wagner.

105. Elements of Vertebrate Embryology. I; 2 or 4 cr. Miss Smith.

107. Evolution Problems. II; 2 cr. Mr. Guyer.

110. Entomology: Anatomy and Embryology. II; 3 cr. Mr. Marshall.

111. Microscopic Anatomy and Micro-technique. II; 3 cr. Miss Smith.

112. Economic Entomology. I; 2 cr. Mr. Marshall.

113. Forest Entomology. II; 2 cr. Mr. Marshall.

119. Animal Parasites. II; 3 cr. For medical and agricultural students and those interested in the problems of public health.

Veterinary students may take the laboratory work alone for two credits. Mr. Pearse.

123. Advanced Entomology. For students who desire to continue some special line of work. Mr. Marshall.

114. Anatomy and Physiology of the Cell; Nondevelopmental Phenomena. I; 2 cr. Mr. Guyer.

115. The Cell in Development and Inheritance. II; 2 cr. Mr. Guyer.

116. Cytology. A laboratory course. 3 cr. Mr. Guyer.

117. Animal Ecology and Natural History. II; 2 cr. Mr. Pearse.

122. Animal Behavior. I; 3 cr. Mr. Pearse.

124a. Limnology. I; 2 cr. Mr. Juday.

124b. Plankton Organisms. II; 2 cr. A continuation of course 124a; with field work. Mr. Juday.

For Graduates

220. Seminary. 2 cr. Mr. Guyer.

228. Research.

COURSE IN CHEMISTRY

J. H. Mathews, Director, Professor of Chemistry.

Purpose of the Course

The primary purpose of this course is to train competent chemists. More good teachers of chemistry in schools and colleges are needed, and in the arts, industries, and public services expert chemists are now required, so that it has become imperative to meet these ever increasing demands. The protection of the public against disease and fraud requires a chemical examination of water, foodstuffs, and the materials that enter into clothing, buildings, and other structures. Both the raw materials and the finished products need careful inspection, and in many cases the various steps in the processes of modern manufacture require the guidance of a chemist.

It is not the purpose of this course to prepare chemists for each individual industry, for no educational preparation can take the place of the special practical experience required to become proficient in any particular line of work. The aim is rather to give the student training in the fundamental principles of chemistry and the cognate sciences, which, of course, also necessitates a proper ground-

ing in French and German. With this preparation a chemist will readily be able to adapt himself to any special industry with which he may later be connected.

In all fields the demand for chemists far exceeds the supply. Furthermore, not only in teaching chemistry in high schools and colleges, but also in lines like analytical, physiological, sanitary, and food chemistry, there is a growing field for women as well as for men. During the war women amply demonstrated their ability as chemists in the industries and have in this way no doubt created a permanent demand for their services in chemical lines.

Requirements for Admission

See p. 87.

Students who have satisfied all the requirements for entrance, but do not wish to be candidates for a degree, will also be admitted to any of the studies of this course for which they are properly prepared.

Plan of the Course of Study

Six courses of study have been outlined: a general course, a course for industrial chemist, a course for agricultural chemist, a course for soil chemist, a course for physiological chemist, and a course for food chemist. The last course is also well adapted for those fitting themselves for sanitary work in hygienic laboratories. The first two courses are almost free from biological work, containing only a short course in bacteriology, which it is extremely desirable that every chemist should have. The general course is intended for those who desire a thorough grounding in the general principles of chemistry. The other four courses are designed for those who desire a more specialized training.

It will be observed that differentiation in the various lines begins in the second year. In all the courses a year each of general inorganic, analytical, organic, and physical chemistry are required. The English is the regular course required of all freshmen in the College of Letters and Science. Both German and French are required. These languages must be pursued in not less than one-year courses. A student coming prepared in but one of these languages will naturally continue work in that language during the freshman year. The equivalent of at least courses 2a and 2b in German and courses 1a and 1b in French is required for graduation. Preparatory work in these languages may satisfy the graduation requirement in part.

The special courses required in connection with each of the six courses are selected because they are of a nature to fit the student for the definite end in view. Each course contains a certain number of free electives, and while freedom of election is not restricted, the student is strongly urged to choose his electives from subjects outside of the natural sciences.

In each of the courses, 130 credits and an equal number of grade points are required for graduation. As the work outlined is necessarily difficult in character, students will often find it advantageous to absolve a part of the required studies during one or more summer sessions.

During the freshman year the work carried by the student amounts to fifteen credits per semester, while during the last three years of the course an average of about seventeen credits per semester must be obtained.

While it is not specifically required for graduation, students are urged to devote at least one of their summers to practical chemical work in some chemical industry.

Requirement for Graduation

Students who have successfully completed any of the courses of study will be admitted to graduation from the University, and will receive the degree of Bachelor of Science, Chemistry Course.

Courses of Study

All Courses

Freshman Year

	Both Semesters Credits		Credits
Chemistry 1	5	English	3
Mathematics 1*	3		
German or French	4	Total	15

General Course

Sophomore Year

First Semester		Second Semester	
Chemistry 11	5	Chemistry 11	5
German or French	4	German or French	4
Physics 1Sc	5	Physics 1Sc	5
Mathematics 3**, or Drawing 1; or Geology 7	3	Mathematics 3 or 5, or Bacteriology 1	3
Total	17	Total	17

*Mathematics 2, 3 cr. takes the place of Mathematics 1 second semester.
**Those who have had Mathematics 3 may take Mathematics 5.

Junior Year

Both Semesters

	Credits		Credits
Chemistry 120	5	Electives†	3 to 7
Chemistry 130	5		
German or French	4	Total	17 or 18

Senior Year

First Semester		Second Semester	
Thesis	2	Thesis	2
Chemistry 113	1	Chemistry 107	1
Chemistry 119	3	Chemistry, elective	5
Chemistry 107	1	Assaying 121*	2
Electives	10	Electives	7
Total	17	Total	17

Course for Industrial Chemist

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	5	Chemistry 11	5
German or French	4	German or French	4
Physics 1Sc	5	Physics 1Sc	5
Mathematics 3**, or Drawing 1; or Geology 7	3	Mathematics 5 or Bacteriology 1	3
Total	17	Total	17

Junior Year

Both Semesters

Chemistry 120	5	Chemical Engineering 111 (II)	2
Chemistry 130	5		
German or French	4	Total	18
Chemical Engineering 12a (I) or (II)	2		

Senior Year

First Semester		Second Semester	
Thesis	2	Thesis	2
Chemistry 113	1	Assaying 121	2
Chemistry 119	3	Bacteriology 1	3
Chemical Engineering 15	3	Chemistry 107	1
Chemistry 107	1	Electives	9
Chemical Engineering 114a	4		
Electives	4		
Total	17	Total	17

†Students who took Mathematics 5 in sophomore year must take Geology 7, 3 cr. in first semester and Bacteriology 1, 3 cr. in second semester which leaves 1 hr. each semester for an elective.

*Women students may substitute 2 cr. in some other course in chemistry for assaying.

**Those who have had Mathematics 3 may take Mathematics 5.

Course for Agricultural Chemist

Sophomore Year

Both Semesters

	Credits		Credits
Chemistry 11	4	Physics 1Sc	5
German or French	4		
Biology 1	5	Total	18

Junior Year

First Semester		Second Semester	
Chemistry 120	5	Chemistry 120	5
German or French	4	German or French	4
Electives	8	Agricultural Chemistry 1	5
		Agricultural Bacteriology 1	3
Total	17	Total	17

Senior Year

Thesis	2	Soils 1	5
Chemistry 130	5	Thesis	2
Agricultural Chemistry (electives)	5	Agricultural Chemistry (electives)	3
Electives	5	Chemistry 130	5
		Electives	2
Total	17	Total	17

Course for Soil Chemist

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	5	Chemistry 11	5
German or French	4	Soils 1	5
Physics 1Sc	5	Physics 1Sc	5
Geology 7	3	Electives	2
Total	17	Total	17

Junior Year

German or French	4	German or French	4
Chemistry 120	5	Chemistry 120	5
Soil Analysis 121	5	Bacteriology 1	3
Electives	3	Electives	5
Total	17	Total	17

Senior Year

Thesis	2	Thesis	2
Chemistry 130	5	Soils (electives)	2 to 5
Chemistry 107	1	Agricultural Chemistry (electives)	5
Geology 1	5	Chemistry 130	5
Electives	4	Chemistry 107	1
Total	17	Total	17

Course for Physiological Chemist

Sophomore Year

Same as for Agricultural Chemist.

Junior Year

First Semester	Credits	Second Semester	Credits
German or French	4	German or French	4
Chemistry 120	5	Chemistry 120	5
Physiology 1	3	Chemistry 130	5
Chemistry 130	5	Physiological Chemistry 104	4
Total	17	Total	18

Senior Year

Thesis	2	Bacteriology 1	5
Physiological Chemistry 117	4	Physiological Chemistry 120	1
Toxicology 101, 102	2	Botany 111	3
Physiological Chemistry 100	2	Chemistry 146	5
Electives	7	Thesis	2
		Electives	1
Total	17	Total	17

Course for Sanitary Chemist or Food Chemist

Sophomore Year

Same as for agricultural chemist, except that in the second semester Biology 1 is replaced by Bacteriology 1, 5 cr.

Junior Year

First Semester	Credits	Second Semester	Credits
German or French	4	German or French	4
Chemistry 120	5	Chemistry 120	5
Botany 110	3	Botany 133	3
Chemistry 119	3	Chemistry 146	5
Electives	2		
Total	17	Total	17

Senior Year

Thesis	2	Thesis	2
Chemistry 113	1	Chemistry 107	1
Chemistry 130	5	Chemistry 130	5
Chemistry 107	1	Physiological Chemistry 104	4
Electives	8	Electives	5
Total	17	Total	17

Departments of Instruction

For detailed information regarding the preceding courses, see the announcements of the several departments of the College of Letters and Science; College of Agriculture; Mechanical Drawing, College of Engineering; Toxicology, Medical School.

Laboratories

A description of the various scientific laboratories of the University may be found by referring to the Index.

Charges and Fees

See pp. 62ff.

COURSE IN COMMERCE

W. A. Scott, Director, Professor of Economics.

Requirements for Admission

Students will be admitted to this course on compliance with the conditions imposed for entrance to the College of Letters and Science. (See pp. 87ff.)

General Requirements

A total of 132 credits and 132 grade points, exclusive of credits required in physical education and drill is required for graduation in this course. The prescribed distribution of these by semesters is indicated under Arrangement of Studies, p. 217. Without special permission of the Dean no student may take courses aggregating fewer than 14 credits per semester. In case a student has received grades of good in all studies of the preceding semester, he may take extra studies to an amount not exceeding 18 credits. No student will be permitted to receive more than 18 credits towards graduation in one semester in classroom work except by permission of the Faculty, obtained in advance.

Plan of the Course of Study

The studies of the course may be classified under the following heads:

Preliminary Studies

To this group belong the studies which are regarded as essential in a liberal education and as a necessary foundation for more specialized subjects to be pursued later. They comprise courses in natural science, mathematics, English, foreign languages, history,

and economics. In natural science, physical geography and the physiography of the United States are required as a basis for economic geography, upon which in turn are built several specialized courses in applied economics. In addition students elect a year's course in physics, chemistry, biology or geology. The course in English is the general training course required of all freshmen in the University. Two modern foreign languages are also required. In these courses special attention is devoted to the acquisition of a speaking and writing command of the language for commercial purposes. Economics and history reveal the forces which produce changes in commercial conditions and institutions and the laws of such changes. The courses prescribed along these lines are the economic and social history of England, the elements of economics, money and banking, and transportation.

Professional Studies

The aim of these is to teach students to understand and actually to perform the various processes common to all branches of commerce. They comprise commercial correspondence, accounting, auditing, salesmanship, advertising, credits and collections, and marketing methods.

This group of studies is distributed throughout the course, beginning with the sophomore year. It is so correlated with the other lines of work as to receive reënforcement from them and to furnish tests of their efficiency.

Elective Studies

Besides the two classes of studies described above, which are with few exceptions prescribed, each student is obliged to elect a group of related courses and a sufficient number of other courses to complete the minimum prescribed for a bachelor's degree. These groups must be arranged at the beginning of the junior year on consultation with a member of the staff, and are designed to give the student an opportunity to study intensively a particular field and to learn how to collect and to utilize data bearing upon the problems of commerce and industry. His attainments in this direction are tested by a thesis prepared during the senior year. Among the fields available for group work and thesis writing are banking and finance, accounting, advertising and marketing, transportation and public utilities, general secretarial work, commercial secretarial work, insurance, commercial teaching and real estate.

Approximately one-half of the student's time in the junior and senior years is available for free election from courses offered in

the various colleges and departments of the University. The opportunities here presented may be utilized to broaden the student's outlook into fields of knowledge not covered by the requirements of his course or to supplement the studies already pursued.

ARRANGEMENT OF STUDIES

Freshman Year

First Semester	Credits	Second Semester	Credits
Physical Geography (Geology 5C)	3	Economic Geography (Geology 5C)	3
Foreign Language	4	Foreign Language	4
English 1a	3	English 1b	3
Mathematics 1	3	Mathematics 7	3
History 6	3	History 6	3
Total	16	Total	16

Sophomore Year

Foreign Language	4	Foreign Language	4
Natural Science	5	Natural Science	5
Elementary Economics	4	Money and Banking	3
Elements of Accounting	2	Elements of Accounting	2
Free Electives	2	Commercial Correspondence	2
Total	17	Total	16

Junior Year

Transportation	3	Business Administration	2
Theory and Practice of Accounting	2	Foreign Language	0 or 4
Business Administration	2	Elective Group	5
Foreign Language	0 or 4	Free Electives	6 or 10
Elective Group	5		
Free Electives	0 or 4		
Total	17	Total	17

Senior Year

Commercial Law	4	Commercial Law	4
Elective Group	5	Elective Group	5
Free Electives	7	Free Electives	7
Total	16	Total	16

ELECTIVE GROUPS*

Banking and Finance

Financial History of the U. S., 3; Money Markets, 3; Corporation Finance, 3; Investments, 2; Public Finance, 3; Thesis, 4.

* The number, titles and arrangement of courses given below are suggestive only. They may be modified to suit the needs of individual students and other groups may be arranged.

Accounting

Advanced Accounting Problems, 2; Auditing, 2; Analysis of Corporation Reports, 2; Cost Accounting, 2; Accounting Systems, 2; Governmental Accounting, 2; Corporation Finance, 3; Investments, 2; Statistics, 3; Thesis, 4.

Advertising and Marketing

Buying and Credits, 2; Marketing Methods, 2; Sales Administration, 2; Statistics, 3; Factory and Office Administration, 2; Psychological Principles of Advertising, 2; Retail Advertising, 2; Advertising Campaigns, 2; Thesis, 4.

Transportation and Public Utilities

Railway Rate and Traffic Problems, 3; Public Utilities, 2; Corporation Finance, 3; Statistics, 3; Government and Politics of the U. S., 3; Thesis, 4.

General Secretary

Factory and Office Administration, 2; Buying and Credits or Marketing Methods or Sales Administration or Corporation Finance, 2 or 3; Advanced Commercial Correspondence, 2; Retail Advertising, 2; Statistics, 3; Publicity and Printing, 2 or 3; Stenography and Typewriting*; Thesis, 4.

Insurance

Mathematics, 124, 3; Insurance Economics, 3; Seminary in Insurance, 2; Industrial Insurance, 2; Statistics, 3 or 4; Corporation Finance, 3; Investments, 2; Thesis, 4.

Commercial Teachers

Education 17 (requirements for a teachers certificate); Advanced Accounting Problems, 2; Auditing, 2; Business Administration, 2; Thesis, 4.

Real Estate

Marketing Methods, 2; Sales Administration, 2; Advertising Campaigns, 2; Retail Advertising, 2; Commercial Statistics, 3; Taxation, 3; Investments, 2; City Planning, 4; Thesis, 4.

* Unless instruction in these subjects is provided by the University, students will be expected to procure it outside.

For detailed information with regard to the foregoing courses of instruction see the announcements of the several departments of the College of Letters and Science.

Requirements for Graduation

Students who have successfully completed the above course of study will be admitted to graduation and will receive the degree of Bachelor of Arts.

Graduate Students

Graduates of this or other colleges and universities of good standing will be admitted to this course, and arrangements will be made so that they may take its peculiar studies in two years or less, provided they have already pursued some of them in their undergraduate courses.

Preparation for Teachers

Students who wish to prepare themselves for teaching are advised to take the commercial teachers group described above, which includes the courses prescribed for the teachers license in this state and given by the Department of Education, and courses in accounting and business administration in addition to those required of all students in the Course in Commerce. Facilities for pedagogical practice will be given such students in the accounting laboratories.

Special Lectures

Special lectures are provided from time to time for the purpose of acquainting students with present business conditions and opportunities. As far as possible men representing the chief business enterprises of the United States are secured for this purpose.

COURSE IN JOURNALISM

WILLARD G. BLEYER, DIRECTOR, PROFESSOR OF JOURNALISM.

Purpose and Plan of the Course

The studies included in the Course in Journalism are of two kinds: (1) Those designed to familiarize the student with present social, political, and economic conditions in the light of their origin and development, as well as with the literature of his own

and other languages; (2) those intended to give the necessary technical instruction in the methods of journalism and advertising. The course of study has been arranged in the belief that the greater part of the time should be devoted to a study of the subjects of the first group, such as history, political science, economics, sociology, philosophy, psychology, language, and literature, which are fundamental to journalistic work.

The technical work includes courses in reporting, editing, the writing of special feature articles, editorial writing, the country newspaper, the history and principles of journalism, and the technique of printing. Courses are offered in the psychological principles of advertising, the methods of retail advertising, national advertising campaigns, and the writing of advertising booklets. Representative French newspapers are studied in a special course for journalism students, given by the Romance Language Department. Courses in cartooning and in drawing for illustrations are offered by the Department of Manual Arts.

Instruction is also given in the law of the press, including the law of copyright, literary property, libel, privileged publication, and other topics relating to the publication of books and newspapers. In connection with the courses in newspaper work special lectures on various phases of journalistic work are given by newspaper men in active service.

Additional information is given in the bulletin, "Course in Journalism, 1920–21," which may be had on application to the Director.

Advertising

Students can secure special training in preparation for advertising positions by combining courses in journalism with those in advertising. The normal arrangement of these courses during the four years is as follows: Freshman year, General Survey of Journalism; Sophomore year, Reporting and Correspondence, Psychology of Advertising; Junior Year, Editing, the Writing of Special Feature Articles, and Commercial Correspondence; Senior year, History and Principles of Journalism, The Writing of Advertising Booklets, Retail Advertising, Advertising Campaigns, and the Law of the Press.

Technical and Trade Journalism

Although the Course in Journalism has been arranged primarily for those preparing for newspaper and magazine work, provision

has also been made for those interested in technical and class journalism. The courses in newspaper and magazine work may be elected by students in the professional schools and courses. Students in the Course in Journalism may elect courses in the College of Mechanics and Engineering, the Law School, and in the College of Agriculture, as well as in the Course in Pharmacy and the Course in Commerce in the College of Letters and Science. By combining studies in commerce, agriculture, engineering and other technical subjects with those outlined in the Course of Journalism, students can obtain the necessary preparation for practically all lines of technical and trade journalism.

Agricultural Journalism

Courses in agriculture and agricultural journalism given in the College of Agriculture can be combined with those in the Course in Journalism by students who desire special training in preparation for positions on farm journals.

The normal arrangement of courses in journalism for students in the Colleges of Letters and Science and Agriculture who are preparing for agricultural journalism is as follows: Freshman year, General Survey of Journalism; Sophomore year, Reporting and Correspondence; Junior year, Editing, and the Writing of Special Feature Articles; Senior year, Principles of Journalism, Editorial Writing, Agricultural Journalism 1 and 4, Advertising, (Economics 15 and 16), The Law of the Press.

Laboratory Equipment

A newspaper office with typewriters, files, indexes, and reference books is maintained as a laboratory for the students of journalism. Index and filing cases show methods of preserving photographs, illustrations, clippings, and biographical and statistical material. Several thousand special features and magazine articles are classified according to the subject matter and treatment so that they may be used readily by the students.

In a printing laboratory especially equipped for the purpose, students are given practical training in the principles of typography in connection with the courses in editing, advertising, and the technique of printing.

A reading room adjoining the journalism laboratory is provided with files of the leading newspapers of the country, as well as of important American and English journalistic periodicals.

Practical Experience

Students in the Course in Journalism are given practical training on the three Madison daily newspapers, the editors of which cooperate with the instructors in journalism for this purpose. Places on the editorial and the business staffs of student publications are awarded for the most part on a basis of literary and executive ability, and are open to all students. The *Daily Cardinal*, published as a morning newspaper in one of the Madison newspaper offices, is edited by a staff organized from the students interested in journalism, who thus get practice in all the details of newspaper making. The *Wisconsin Literary Magazine*, a monthly devoted to special articles, short stories, verse, and essays, and the *Badger*, the university annual, edited and published by the members of the junior class, both give opportunity for a variety of experience in journalism. The *Wisconsin Engineer*, a quarterly edited and published by the students of the College of Engineering; the *Wisconsin Country Magazine*, a monthly edited and managed by the agricultural students; and the *Commerce Magazine*, a quarterly issued by the University Commerce Club, furnish practice for those interested in technical and trade journalism.

General Requirements

Students will be admitted to these courses on compliance with the conditions imposed for entrance to the College of Letters and Science. (See pp. 87ff.)

Students who have satisfied all the requirements for entrance but do not wish to be candidates for a degree will be admitted to any of the courses for which they are properly prepared.

The requirement for graduation from the Course in Journalism is 120 credits, the number required for the degree of bachelor of arts in the College of Letters and Science. (See p. 107ff.)

The degree of Bachelor of Arts, Course in Journalism, is granted to students who complete the four-year course.

Arrangement of Courses

The Course in Journalism consists of both required and elective courses. The required courses include three groups: (1) Those studies required of all students in the College of Letters and Science who are candidates for the degree of bachelor of arts, such as Freshman English, history, foreign languages, and science or mathematics; (2) those that are prerequisite for advanced work in the fields with

which journalism is especially concerned, such as the general survey of English literature, American history, elementary economics, elementary law, and government and politics in the United States; (3) those that give the necessary technical instruction and practice in journalism, including those in advertising and the law of the press. The elective studies include those courses in history, political science, economics, literature, and philosophy that are essential for the best type of journalism.

The following list contains the required and elective courses arranged under the four years in the order in which they should normally be taken. Arabic figures indicate the credits; Roman numerals show the semester in which the course is given.

Freshman Year

General Survey of Journalism, 0; Freshman English, 3; Foreign Language, 4; English History, 3, Medieval History, 3; Mathematics, 3 or Science, 5.

Sophomore Year

Newspaper Reporting and Correspondence, 3; Psychology of Advertising, 2, II; Introduction to the Study of Literature, 3; General Survey of English Literature, 3; History of the United States, 3; Elements of Economics, 4, I, II; Elements of Money and Banking, 3; Foreign Language, 4; Free Hand and Applied Drawing, 3.

Junior Year

Newspaper Editing, 3; Writing of Special Feature Articles, 2; Journalistic French, 2; Commercial Correspondence, 2, II; Law of the Press, 2, II; American Literature, 2; Argumentation (Public Speaking 3a), 3, I; Modern European History 3; The British Empire since 1688, 2; Elementary Law 3, I; Government and Politics in the United States, 2, II; International Law, 2; Party Government, 3, I; Poverty and Relief, 3, II; Labor Problems, 2, II; Social Psychology, 3, I; Statistics, 3, I; Problems of Taxation, 2, II; History of New England, 3, II; Psychology, 3, I; Ethics, 3, II; Introduction to Philosophy, 3, II; Logic, 2, II.

Senior Year

Editorial Writing, 2; History and Principles of Journalism, 3; The Country Newspaper, 2, I; Retail Advertising 2, I; Thesis, 2; History of the West, 3; Nineteenth Century Europe, 3, II; Diplomatic History of the United States, 2; Recent History of the United States, 3; Transportation and Communication, 3, II; Financial History of the United States, 3, I; The Money Market, 3, I; Industrial Evolution and Its Problems, 2, I; Administrative Problems, 2, I; 1, II; Theory and Practice of Legislation, 3; Municipal Functions, 2, II; Municipal Government in Europe and the United States, 3, II; Contemporary International Politics, 2, I; Social, Political, and Business Ethics, 2; Philosophic Thought in Nineteenth Century English Literature, 2, II; History of Modern Philosophy, 3, II; Contemporary Drama, 2; Contemporary Novel, 2; Victorian Prose Writers, 2; The Victorian Era, 3; Current Political Topics, 2.

COURSE IN PHARMACY

EDWARD KREMERS, DIRECTOR, PROFESSOR OF PHARMACEUTICAL CHEMISTRY.

Object of the Course

The prime object of the Course in Pharmacy is to furnish a thoroughly scientific foundation for the pursuit of the profession of pharmacy. The elements of the fundamental natural sciences, chemistry, botany, and physics, must first be studied before their application to pharmacy can rationally be considered. This is as true for pharmacy as for any other applied science or art. In pursuing these general studies the pharmacy students have the advantage of close association with students from other courses. The University does not demand practical experience for admission to the courses in pharmacy, but desires such preparation as will best fit for college or university work.

The general study of these fundamental sciences is followed by more or less specialized courses. General chemistry, inorganic and organic, qualitative and quantitative analysis, are followed by pharmaceutical chemistry, and applied chemical analysis; general botany by vegetable histology and anatomy of drugs; general physics by pharmaceutical technique. These somewhat specialized studies, in turn, not only lay the foundation for the study of the more strictly applied courses in practical pharmacy and pharmacognosy, but also prepare the student for thesis work.

The student who can spend only two years at the University is compelled to take up the more technical studies of his course before he has laid a satisfactory foundation. Such a compromise is outlined under the caption, Courses of Study. The three-year student, as a rule, finds time to pursue studies other than those outlined above, e. g., physiology, bacteriology, etc. The four-year student has the great advantage of supplementing his high school preparation during the freshman and sophomore years by acquiring a reading knowledge of French and German, and by the study of university mathematics, all of which studies are of the greatest importance when the more advanced work of the natural sciences is taken up during the junior and senior years.

Special attention is called to the Four-year Course offered to graduates of accredited high schools. This course was created in order to accommodate those students who desire to obtain a general scientific education and to include in their course the

pharmaceutical studies, and with the hope of stimulating a broader pharmaceutical education. For the more applied courses special laboratories have been equipped.

Like the sister profession, medicine, pharmacy is in need, not only of the general practitioner, but also of the specialist. For the preparation necessary to equip such specialists the University offers graduate courses. Graduates who desire to prepare themselves as chemists for manufacturing establishments, as analytical, food, or sanitary chemists, or as bacteriologists, will find that the graduate work in the Course in Pharmacy, as well as the other departments of the University, offers excellent opportunities for advanced and more specialized study. Special lines of research can also be pursued in various departments by those who desire to work for a higher degree. The attention of advanced students is especially called to the graduate work. (See Index.)

Laboratories

The pharmaceutical laboratories are located on the third and fourth floors of the Chemistry Building. On the third floor, they consist of a dispensary, a laboratory for analytical purposes, and a laboratory for general pharmaceutical chemistry; on the fourth floor, of a milling room and laboratories for extraction and distilling purposes equipped with steam and vacuum apparatus. The work of these laboratories is carefully coordinated and culminates in the prescription work of the dispensary.

Adam Conrath Memorial Fund

In 1912 the Wisconsin graduates of the Philadelphia College of Pharmacy gave $75 to the University to establish the Adam Conrath Memorial Fund. This sum is to be added to from time to time until the amount reaches $250. The income is then to be used to maintain a set of the *American Journal of Pharmacy* in the University.

Terms of Admission

The requirements for admission to the several colleges of the University are described on previous pages. See Index under Admission.

Graduation from an accredited high school, or its educational equivalent, is required for admission to both the two-year and the four-year courses in Pharmacy.

Degrees

The first degrees given in pharmacy are those of graduate in pharmacy upon completion of the two-year course, and of bachelor of science, pharmacy course, conferred upon candidates who have successfully met the requirements of the four-year course.

The degrees of master of science and doctor of philosophy are conferred as higher degrees upon candidates who have a baccalaureate degree.

Fees and Expenses

The tuition and laboratory fees and an estimate of expenses for board and lodging are given on previous pages. (See pp 62ff.)

Outline of Two Year Course

First Year

First Semester	Credits	Second Semester	Credits
Botany 1	5	Botany 130	4
Pharmacognosy 10	1	Chemistry 1	5
Chemistry 1	5	Chemistry 11	2½
Pharmacy 1	3	Chemistry 17	2½
Pharmacy 20	3	Pharmacy 1	3
Pharmacy 40	1	Pharmacy 40	1
Total	18	Total	18

Second Year

Chemistry 20	4	Chemistry 27	5
Chemistry 26	4	Chemistry 40	3
Chemistry 40	3	Botany 111	3
Botany 110	3	Pharmacognosy 20	2
Pharmacognosy 20	2	Pharmacy 30	4
Pharmacy 121	2	Chemistry 45	1
Pharmacy 50	1	Pharmacy 50	1
Thesis	2	Thesis	2
Total	21	Total	21

For detailed information as to the foregoing courses see the announcements of the several departments of the College of Letters and Science.

Students who desire to include pharmaceutical studies as a part of their general college education elect the prerequisite studies enumerated below. Such a course, if to lead to the degree of bachelor of

science, pharmacy course, must include courses 1, 20, 30, 40, 50, and 121, in Pharmacy, and course 20 in Pharmacognosy.

Basal sciences: Chemistry 1, 11, 20, 17 or their equivalents; Botany 1, and 130 or its equivalent; Physics 1. These should be taken during the first and second years.

Advanced sciences: Chemistry 26, 27 and 40; Botany 110 and 111. These courses should be taken during the third year in order that the courses in pharmacy and pharmacognosy mentioned above may be taken during the fourth year.

The language requirements of this course are English 1a and 1b, French 1a and 1b, and German 2a and 2b, or their equivalents, which should be taken during the first and second years.

The major study and thesis may be taken in chemistry, botany, pharmacy, or any department in which the student is sufficiently prepared to do such work. For the rules governing the major study and thesis, see Index under Major Study.

Additional electives sufficient to make 120 unit-hours may be chosen upon consultation with the adviser for pharmacy students. 120 grade points are also required for graduation.

Pharmaceutical Experiment Station

In accordance with an act passed by the legislature in 1913, a Pharmaceutical Experiment Station has been established in connection with the Department of Pharmacy. The object of the Station, as outlined by the law establishing it, is two-fold:

(1) To cooperate with the Bureau of Plant Industry of the Department of Agriculture in the maintenance of the northern station for the cultivation of medicinal plants and to disseminate such information as may lead to the proper cultivation of medicinal plants and the production of high grade vegetable drugs in this state; and

(2) To serve the public at large by cooperation with both pharmacists and physicians in securing for the sick the best medicines that pharmaceutical science and art can provide, and further by cooperation with the State Board of Pharmacy, the State Board of Health, and the Dairy and Food Commission, to bring about these results.

The staff of the Experiment Station is made up of members of the faculty of the Department of Pharmacy. In addition, the research fellows in pharmacy devote their entire time to the work of the station. A garden of about forty acres for the scientific cultivation of medicinal plants and a laboratory for the investi-

gation of problems connected with the preparation and testing of crude drugs, pharmaceutical preparations and chemicals are maintained.

Reports on the work of the Experiment Station are published from time to time and distributed to persons interested. For copies of these reports application should be made to the Director.

Wisconsin Pharmaceutical Research Fund

Recognizing the ever growing importance of research to the science and art of pharmacy, the Pharmaceutical Alumni of the University have established a fund, known as the Wisconsin Pharmaceutical Research Fund of the University of Wisconsin. The first contributions to the fund, amounting to $1,000, were presented in June, 1917, and accepted by the Regents in the name of the University. Since 1917, $1,000 have been presented each year. Half of the income of this fund may be devoted directly to pharmaceutical research while the remainder goes to augment the principal.

Fritzsche Brothers Fellowship

Through the generosity of the Fritzsche Brothers of New York City the Experiment Station has since 1917 enjoyed a fellowship of $500 each year. This fellowship is devoted to the investigation of problems growing out of the cultivation of the Monardas.

The Hollister Fellowship

In accordance with the wills of the late Mr. and Mrs. Albert Hollister, there has been deposited with the Board of Regents the sum of $10,328, the income of which is to be used to maintain a fellowship in Pharmacy.

Newport Chemical Works Fellowships

Realizing the importance of research in the direction of new remedies in this country, the Newport Chemical Works of Milwaukee has contributed $1,000 for this purpose for the academic year 1919–20.

Newport Turpentine and Rosin Company Fellowships

The Newport Turpentine and Rosin Company of Pensacola, Florida, has deposited with the University $1,000 for the investigation of pine oil and related products with a view to their utilization as medicinal preparations.

LIBRARY SCHOOL

MATHEW S. DUDGEON, DIRECTOR; MARY EMOGENE HAZELTINE, PRECEPTOR; CLARENCE B. LESTER, IN CHARGE OF SPECIAL COURSE.

Purpose of the School

The purpose of the course in general library science is to train well rounded library workers. Though the educational and literary features of the profession are strongly emphasized, the course deals mainly with the fundamental principles of bibliographical, technical, and administrative library work necessary to meet the demands of the library world. The students have exceptional opportunities to come into contact with actual rather than theoretical problems, and to work these problems out to practical solution. The instruction in general library science may be taken in two ways:

(a) As an independent library course of one year, by all who meet the entrance requirements of the School. The certificate of the Library School is given to those who satisfactorily complete this course.

(b) As a joint course by senior students in the College of Letters and Science who qualify for entrance. Students who take the joint course may not begin the work of the Library School until they have obtained at least 96 credits in the College of Letters and Science and passed the entrance examinations of the Library School. Of the 20 credits of Library School work accepted by the University four may be counted toward an English major, if the candidate chooses that subject. This joint course leads to the degree of Bachelor of Arts from the University, and to the certificate of the Library School.

Entrance Requirements

Each candidate for admission to the Course in General Library Science must fill out an application blank, copies of which can be obtained from the Preceptor, Miss Mary Emogene Hazeltine, Library School, Madison, Wisconsin.

Without exception, all applicants are required to take the entrance examinations, which are held on the second Friday in June of each year. These examinations are competitive, and can be taken only at the time specified. They cover history, general literature, current events, and German or French. The completion of a high school course or its equivalent is prerequisite for

admission to the examinations. Only those who by personal interview or otherwise demonstrate a personal fitness for the work will be considered eligible.

Applicants for the joint course take these examinations at the end of their junior year. Experts are agreed that the best foundation for success in library work is a sound general education, and the ideal plan of preparation is a four-year college course, followed by one or more years of technical training. It is for those who are not able to afford so much time that the joint course has been arranged. Applicants for the independent course of one year should bear in mind the importance of a college course as an educational equipment for library work. *Students will be admitted only at the beginning of the first semester.*

Accepted candidates for the Course in General Library Science must meet several extra entrance requirements before joining the classes in the fall. All who have not had experience in library work must spend at least one month in actual work in a designated library *before the School opens in September.* Candidates must be skillful with the typewriter before entering, as the School requires its use in the preparation of many of the lessons, and no instruction is given in the School. It is also required that the standard "library handwriting" be mastered. Accompanying the application blank is a required list of books to be read in preparation for the first recitation of the school year in book selection. These requirements apply both to students in the independent course and in the joint course.

Special Course

In cooperation with the Legislative Reference Department of the Wisconsin Free Library Commission, the Library School also offers a special course of training for legislative and municipal reference work and the various sociological phases of library service. The course is intended for college graduates with special aptitude and personal qualifications for this type of library service who have a definite preparation in political science, economics, and sociology. Application blanks may be obtained by applying to C. B. Lester, Legislative Reference Library, Madison, Wisconsin.

Tuition and Expenses

See pp. 62ff.

Course of Study and Credits

First Semester	Credits
Cataloguing	5
Classification	3
Reference	2
Evaluation and Selection of Books	2
Trade Bibliography and Book-buying and Ordering	1
Loan Administration	1
Library Economy	1
Total	15

Second Semester	Credits
Reference	2
Library Economy	2
Subject Bibliography	3
Evaluation and Selection of Books	2
Children's Literature	1
Administration	1
Documents	1
Field Practice	3
Total	15

The thesis for joint course students will be under the direction of the university department in which the student chooses his major subject, and the bibliography included in it will be accepted by the Library School in satisfaction of its thesis requirements.

Candidates for the degree of Bachelor of Arts who secure, as part of the 120 credits required for the degree, 20 credits in the Library School, will be awarded the certificate of the Library School upon the completion of the full number of credits in the school as given above. The satisfaction of the requirements for both the degree and the certificate, under this plan, will normally involve residence at the University for four years and one summer session.

The instruction in legislative reference work is made up of three elements which together constitute a single course.

I. Bibliographic and technical library studies.

These include fundamental studies from the general course.

II. Elective work at the University of Wisconsin.

To each student there is assigned work in courses given at the University, especially in political science and economics.

III. Special instruction and research.

The regular library school work is supplemented by special instruction as to the methods and materials of special libraries, combined with actual practice in the legislative reference library and elsewhere. The research is upon actual problems arising in the various departments of state and municipal government.

This course, authorized by the Regents in June, 1916, is offered in direct response to a formally expressed demand coming from city superintendents and high school principals of the state. Beginning with the school year 1919–20, the State Department of Education made a requirement that all state aided high schools

Course for Teacher-Librarians

employ a teacher-librarian who has had the training represented by such course, or its equivalent.

The object of the course is to qualify those taking it to assume, in connection with instructional duties, the supervision of high school libraries, and to qualify them also to give instruction to high school students in the use of books and libraries, and in the means and methods of developing good habits and right tastes in reading.

The course is conducted by the faculty of the Library School, in the school's quarters in the Madison Free Library building. It is a year course carrying two credits each semester and is open to juniors and seniors who are prospective teachers.

The subjects include cataloguing, classification, and library economy, each lesson followed by practice work; book selection and evaluation, use of reference books, indexes, and library helps, mending, binding, and care of books, lending of books, how to teach pupils to use books, equipment and administration of school libraries.

Special Catalogue

Detailed information regarding the Library School is given in the special catalogue of the School. A copy of this can be obtained from the Preceptor, Miss Mary Emogene Hazeltine, Library School, Madison, Wisconsin.

For any more specific information as to the legislative reference course, apply to C. B. Lester, Legislative Reference Library, Madison, Wisconsin.

THE SCHOOL OF EDUCATION

V. A. C. Henmon, Director, Professor of Education.

General Statement

In June, 1919, the Board of Regents authorized the establishment of a School of Education within the College of Letters and Science. The school is an outgrowth of the Course for the Training of Teachers established in 1908. The faculty consists of (1) members of the Department of Education, (2) instructors in charge of departmental teachers courses and other courses required for the University Teachers Certificate, (3) an additional representative from each de-

partment offering departmental teachers courses, and (4) teachers in the Wisconsin High School.

The school provides professional preparation for teachers of general high school subjects, principals, superintendents and supervisors, teachers of agriculture, home economics, manual and industrial arts, and physical education, playground and recreation supervisors, and high school librarians. This preparation rests upon a basis of sound general education and consists of the following parts: (1) special academic instruction in the subjects to be taught; (2) professional training by means of (a) departmental teachers courses, (b) courses in education and psychology, (c) educational practice, including observation of teaching under supervision, in the Wisconsin High School and in the Madison public schools, and the activities involved in the work of directed teaching as carried on in the Wisconsin High School.

Graduate courses in the various fields of education and opportunity for investigation and research are offered for teachers, administrators and supervisors who recognize the desirability of graduate study in addition to the four years of college work, and for those who are preparing to become teachers of education in county training schools, normal schools, and colleges.

Admission and Registration

(1) The completion of the first two years of college work in a college of the University, or its equivalent from other institutions, is required for regular admission and registration.

(a) Students who are candidates for the University Teachers Certificate must, in addition to the usual registration in one of the colleges, register in the School of Education at the beginning of the junior year.

(b) Each registrant must indicate, for the joint approval of the instructor in charge of a departmental teachers' course and the Director of the School of Education, the subject or subjects, preparation for the teaching of which is contemplated. In no case will more than three related subjects be approved (a major subject; a major and one minor subject; a major and two minor subjects).

(2) Students electing a teaching major in agriculture, in home economics, in manual, industrial, or applied arts, or in physical education may be admitted and registered in the School of Education in their freshman and sophomore years.

Students who expect to complete the requirements of the School of Education and secure the University Teachers Certificate should report, at the beginning of the junior year, to the office of the Director of the School (Room 123, University Hall) *immediately after the regular registration in the College of Letters and Science or the College of Agriculture.*

Advanced Standing

Graduates of normal schools and students from other colleges and universities are admitted with advanced standing under conditions set forth on pages 99ff. Transfer records from such institutions, together with records of high school work on blank forms provided by the University, should be submitted to the Committee on Advanced Standing in advance of the opening of the University.

Degrees

The School of Education forms administratively a part of the College of Letters and Science. Registrants in the School of Education retain their registrations in the College of Letters and Science, or, in the case of those qualifying to teach agriculture or home economics, in the College of Agriculture, and receive upon graduation the degree to which their entrance credits and college credits entitle them. In addition, upon fulfilling the requirements outlined below, they receive the University Teachers Certificate.

Students who complete the requirements of either of the four year courses in manual arts receive the degree of Bachelor of Science (Manual Arts), and those who complete the four year course in physical education receive the degree Bachelor of Science (Physical Education).

Requirements for Graduation from the School of Education and for the University Teachers Certificate

Graduation from the School of Education and the recommendation for the University Teachers Certificate is based upon the following conditions and requirements:

I. A total of 124 credits exclusive of physical training and military drill.

II. The satisfactory fulfillment of the requirements of preparation for teaching of either:

1. (a) a major subject, or
   (b) a major subject and one minor subject, or
   (c) a major subject and two minor subjects.

   To fulfill the requirements of preparation for teaching the selected major a student must present credits in amount and kind as prescribed by the department of such major subject. This departmental prescription must in all cases include at least twenty credits, and, in addition, credit for the departmental teachers course. (See departmental professional requirements, pp. 237 ff., for the credit requirements prescribed by the different departments.)

   To fulfill the requirements of preparation for the teaching of the selected minor subject or subjects, a student must present credits in amount and kind as prescribed by the department of such minor subjects. This departmental prescription must contain ten credits, exclusive of the departmental teachers course.

2. The completion of the special requirements of the courses in agriculture, home economics, manual arts, and physical education.

III. The recommendation of the departments of the major and minor subjects, or of the responsible authorities of the special courses, as to fitness for teaching.

IV. The presentation of a certificate of physical health and fitness from the University Medical Examiner.

V. The completion of the following professional requirements:

1. Psychology (Philosophy 1)	3 credits
2. Educational Psychology (Education 41) or Mental Development (Education 11)	3 credits
3. Principles of Education (Education 31)	3 credits
4. Technique of Education (Education 90)	2 credits
5. Departmental Teachers Course	2 credits
6. Educational Practice (Education A)	2 credits
	15 credits

(a) The course in Psychology (three credits) shall be taken ordinarily in the sophomore year.

(b) The course in Educational Psychology or Mental Development, and Principles of Education shall be taken ordinarily in the junior year, and the remaining required courses in the senior year.

(c) The minimum of two credits in the departmental teachers' course of the major subject must be secured by all students. The requirements of two additional credits for the departmental teachers course in the major and two credits for the departmental teachers courses in the minor subject are at the option of the department. Only two of the credits earned in the departmental teachers courses of the major subject shall be included in the maximum of forty credits allowed for a major toward a bachelor's degree.

(d) Credit for Education A (Educational Practice) may be acquired during the first or the second semester of the senior year.

VI. Graduates of the professional courses in the State Normal Schools who register in the School of Education as candidates for the University Teachers Certificate must present a minimum of six credits in advanced university courses in education, together with the departmental teachers course in their major. Under exceptional circumstances another course may be substituted for the departmental teachers course.

VII. Graduates of the Long Course in Agriculture, graduates receiving the B. S. degree in Home Economics, graduates of the Middle Course in Agriculture, and students satisfactorily completing the two year course for Supervisors of Music, who have complied with the regulations relative to registration, and to approval of major and minor subjects, will be entitled to receive the Certificate upon fulfillment of the special professional requirements indicated below: Agriculture p. 244; Home Economics, p. 246; Music, p. 241.

State Teachers License

Upon the fulfillment of the foregoing requirements a student will be recommended by the Director of the School to the President of the University, to receive the certified statement prescribed by section 458*b*—2 of the Laws of Wisconsin, as amended by chapter 514,

Laws of 1913. This certified statement, indicating the subject or subjects, the requirements for the teaching of which have been fulfilled, when presented to the State Superintendent, entitles the holder to receive a license to teach for one year in any public school in Wisconsin. Graduates who have received this University Certificate and who present satisfactory evidence of good moral character and two years of successful teaching after graduation are entitled to receive from the State Superintendent an unlimited state certificate.

It may be noted that the requirements for the University Teachers Certificate are in advance of the minimum fixed by law for a license to teach. The legal professional requirement is twelve hours in psychology and education. However, attention is called to the fact that the minimum requirement of the North Central Association is eleven hours in education. Information concerning the provisions of the law may be obtained from the office of the State Superintendent of Public Instruction, or from the office of the Director of the School of Education.

Wisconsin High School

The Wisconsin High School, a six-year secondary school, was opened in September, 1911, and is maintained by the University as an integral part of the School of Education. The primary purposes of this school are (a) the exemplification of sound educational theory and organization, with special reference to secondary education, and (b) the provision of appropriate facilities for observation and directed teaching.

The details of the organization, program of studies, etc., of the Wisconsin High School will be found in the Bulletin of the School of Education.

Departmental Professional Requirements

Only such departments and courses of instruction are here indicated as are immediately related to the professional work of the School of Education. The announcements of the several departments and colleges of the University should be referred to for more extended and detailed information regarding the courses of instruction open to those students intending to teach.

Agriculture

See detailed statement of courses for teachers of agriculture pp. 234 ff.

Botany

Students preparing to teach botany, either as a major or minor subject, are advised to elect courses in both structural and physiological botany, and also those that involve field work.

Major. A minimum of twenty credits from the following courses: Botany 1, 2, 90, 103, 104, 105, 106, 110, 129, 130, 146, 147, 150.

Minor. A minimum of ten credits in addition to course 90, selected from the following courses: Botany 1, 2, 103, 104, 105, 106, 110, 129, 130, 146. Attention is called to courses 1 and 2, which together constitute a year's work and are especially adapted to the needs of those taking a teachers minor in botany.

Departmental Teachers Course. Botany 90. The Teaching of Botany. II; 2 cr. Mr. Gilbert.

Chemistry

Major. A minimum of twenty credits, including courses 1, 120 (first semester), and 11 (at least five credits).

Minor. A minimum of ten credits.

Departmental Teachers Course. Chemistry 90. The Teaching of Chemistry. II; 2 cr. Prerequisite: major requirements above indicated. Course 11 may be taken simultaneously. Mr. Walton.

Commerce

The Course in Commerce affords certain facilities for those students who wish to prepare themselves to teach commercial subjects in secondary schools. Such students are advised to consult with the director of the Course in Commerce in the arrangement of elective work. Special facilities for pedagogical practice will be given such students in connection with the accounting laboratories, and work in addition to that prescribed may be arranged in subjects of especial importance to teachers.

Drawing

See under Manual Arts.

Economics

Major. A minimum of twenty-four selected credits exclusive of thesis.

Departmental Teachers Course. The Department of Economics does not offer a regular departmental teachers course, but will accept a teachers course in a related subject, such as history.

Education

For general information concerning the equipment, and the courses offered in education, see pp. 145 ff. For detailed information relative to the special requirements of courses in education for the University Teachers Certificate see pp. 234ff.

English

Major. A minimum of twenty-eight credits, in addition to the thesis, and exclusive of courses 1a and 1b (required of all students). The twenty-eight credits must include courses 30, 90a, 90b, 120a or 123, and one course from each of the following groups: 36 or 137; 34, 35, or 40. A total of thirty-six credits, in addition to the thesis and courses 1a and 1b, may be taken. Students who have had an adequate training in Latin or Greek (usually six years of Latin or four of Greek) may substitute some other English course for 120a or 123.

Minor. A minimum, in addition to courses 1a and 1b (required of all students), including course 30, 90a, and an advanced composition course in the sophomore or junior year (2, 3a and 3b, 5, or 6), and one of the following groups: (a) 34 and 35; (b) 36 or 137; (c) 40.

Departmental Teachers Courses. English 90a. The Teaching of English. I; 2 cr. Mr. Bair.

English 90b. The Teaching of English. II; 2 cr. Mr. Bair.

French

See under Romance Languages.

Geology

See under Physiography and Geography.

German

Major. A minimum of twenty-four credits in advance of course 2b. In addition to the thesis, these twenty-four credits must include courses 10 or 112, 90a, 90b, 130 or 131, 150 and 151. For the maximum number of credits that may be elected see University Catalogue.

Minor. Courses 10 or 112, 90a, and at least four credits in literature from courses 21 to 28, 130 or 131.

Departmental Teachers Courses. German 90a. The Teaching of German. Methods. For seniors and graduates. I; 2 cr. Mr Morgan.

German 90b. The Teaching of German. Phonetics. For seniors and graduates. II; 2 cr. Mr. Morgan.

Students who are preparing to teach German as their major or minor subject and have done a considerable amount of work elsewhere, or who have had successful teaching experience, may be excused, by action of the department, from some of the required work. Such excuse will generally be granted only on the basis of an examination, and in no case will students be recommended by the department unless they have taken at least four credits of work in the department.

Greek

Major. A minimum of twenty-four credits (not including courses 5a, 5b, and 7), in addition to the thesis.

Minor. A minimum of courses 10, 11 and 20.

Departmental Teachers Course. The Department of Greek does not offer a regular departmental teachers course. Latin 90 is recommended to candidates who desire to teach Greek.

History

Major. A minimum of thirty credits, of which at least sixteen must be in advanced courses and thesis, and in addition course 90a.

Minor. A minimum of sixteen credits in addition to course 90b. These sixteen credits must include at least four in advanced courses.

Departmental Teachers Course. History 90a. The Teaching of History. I or II; 2 cr. Mr. Chase.

History 90b. Supplementary Reading for High School Teachers of History. II; 2 cr. Mr. Chase.

Home Economics

See detailed statement of courses for teachers of Home Economics, pp. 147ff.

Latin

Major. A minimum of twenty-four credits, including courses 107, 90, and one advanced reading course for one year.

Minor. A minimum of twenty credits, including course 90 and one advanced reading course for one year.

Departmental Teachers Course. Latin 90. The Teaching of Latin. I (required); 2 cr. II (elective); 2 cr. Miss Sabin.

Library Science

The Library School offers for those who are qualifying themselves for positions as high school librarians the following course:

Library Science for Teachers. Yr.; 4 cr. The object of the course is to qualify those taking it to assume, in connection with instructional duties, the supervision of high school libraries, and to qualify them also to give instruction to high school students in the use of books and libraries, and in the means and methods of developing good habits and right tastes in reading. Open only to juniors and seniors. Miss Hazeltine, Miss Turvill, Miss Merrill, Miss Birge, and other members of the instructional staff of the Library School.

Manual Arts

See detailed statement of courses for teachers of Manual Arts, pp. 148ff.

Mathematics

Major. (a) A minimum of courses 5 and 6, and 112, or 113, or 115, and the courses that necessarily precede them; (b) course 90b is open to those who offer mathematics as a major, and is recommended as a desirable course for the junior year; (c) a knowledge of solid geometry obtained in the secondary school or elsewhere.

Minor. (a) A minimum of twelve credits from courses 1 to 7, 51, 52, 71, 115 in mathematics and course 3 (Descriptive Geometry) in drawing. Six of these credits must be earned in residence at the University of Wisconsin, with a grade of at least fair; (b) course 90a is required of all who offer mathematics as their principal minor; course 90b is open to such students and is recommended as a desirable course for the junior year; (c) a knowledge of solid geometry obtained in the secondary school or elsewhere.

Departmental Teachers Courses. Mathematics 90a. The Teaching of Mathematics. I; 2 cr. Mr. Hart.

Mathematics 90b. The Content of Secondary Mathematics. II; 2 cr. Mr. Hart.

Music

While the completion of the four-year course leading to the degree of Bachelor of Music, with a major in Public School Music gives the broadest training for the constantly enlarging field of this branch of teaching, students satisfactorily completing the Two-

Year Course for Supervisors of Music will be entitled to a recommendation to the State Board of Examiners to receive a special state license to teach music in the public schools of the state. This recommendation will be issued by the Director of the School of Education, provided (a) that the student registers in the School of Education at the beginning of the first year of residence; (b) that the student has earned special credits as follows: psychology (Philosophy 1), 3 cr.; Education 1, 6, 11, 31, 41, or 90, 3 cr.; (c) that the student presents a statement from the Director of the School of Music as to general fitness for teaching.

Philosophy

The following course must be completed by all students fulfilling the requirements of the School of Education.

Philosophy 1 (psychology). Introductory course. I; 3 cr. Mr. Sharp. II; 3 cr. Mr. McIntire, Mr. Starch.

Physical Education

See a detailed statement of the Course in Physical Education, pp. 255ff.

Physics

Major. A minimum of twenty credits in approved courses.

Minor. A minimum of ten credits in approved courses.

Departmental Teachers Course. Physics 90. The Teaching of Physics. II; 2 cr. Mr. Steve.

Physiography and Geography

Major. A minimum of twenty credits in approved courses in the Department of Geography including course 90a.

Minor. A minimum of twelve credits in approved courses in the Department of Geography including course 90a.

Departmental Teachers Course. Geology 90a. The Teaching of Physical Geography. I; 2 cr. Miss Loft.

Geology 90b. The Teaching of Commercial Geography. II; 2 cr. Miss Loft.

Physiology

The Departments of Anatomy, Physiology, Bacteriology and Hygiene, acting conjointly, have outlined the following as a preparation for teaching human physiology.

Major. A minimum of twenty-three credits in the following courses: Physiological Chemistry 104 (prerequisite: organic chemistry), 4 cr.; Anatomy 105 (prerequisite: Biology 1), 3 cr.; Anatomy 115, 2 cr.; Physiology 105, 9 cr.; Bacteriology 102, 5 cr.

In order to fulfill these requirements, Physics 1 or 1Sc, Chemistry 1, and Biology 1, should be completed before the beginning of the junior year.

Minor. A minimum of eleven credits in the following courses: Physiology 1 and 2, 4 cr.; Hygiene 1, 2 cr.; either Bacteriology 1 or 4, 5 cr. General chemistry is strongly advised before taking physiology or bacteriology.

Minor. Special requirements for home economics students: Physiology, 3 cr.; Hygiene, 2 cr.; Bacteriology, 5 cr.

Public Speaking

Major. A minimum of twenty credits in addition to the thesis and courses 190a and 190b.

Minor. A minimum of sixteen credits in approved courses.

Departmental Teachers Courses. Public Speaking 190a. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in public speaking). I; 2 cr. Mr. Weaver and staff.

Public Speaking 190b. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in public speaking). II; 2 cr. Mr. Weaver and staff.

Romance Languages

FRENCH

Major. A minimum of twenty credits in advance of second-year French. The following courses are required: 90, 190, four credits in composition and conversation, and at least six credits in French literature.

Minor. A minimum of twelve credits in advance of second-year French. At least two credits in composition and conversation and at least three credits in some general course in French literature must be taken.

SPANISH

Major. A minimum of twenty-two credits in advance of Spanish 1. The following courses are required: 90, and at least two credits in composition or conversation.

Minor. A minimum of ten credits in advance of second-year Spanish. At least two credits in composition and conversation must be included.

Departmental Teachers Courses. French and Spanish 90. Theory and Practice of Teaching. I or II; 2 cr. Mr. Smith, Miss Johnson.

French 190. Pronunciation and Phonetics. I or II; 2 cr. Mrs. Greenleaf.

Zoology

Major. A minimum of twenty credits from the following courses: Zoology, 1a, 1b, 9, 11, 19, 102, 104a, 105. In special cases other courses may be substituted by permission of the chairman of the department.

Minor. A minimum of ten credits from the following courses: Zoology 1a, 1b, 9, 102a, 104a. Attention is called to courses 1a and 1b which together constitute a year's work and are especially adapted to the needs of those taking a minor in zoology.

Departmental Teachers Course. Zoology 90. The Teaching of Zoology. II; 2 cr. Mr. Pearse.

Courses for Teachers of Special Subjects

The University of Wisconsin has for many years provided technical and professional training for teachers of special subjects such as agriculture, home economics, physical education, and the manual and industrial arts.

The courses in agriculture and in home economics are given in the College of Agriculture. Students who are planning to teach these subjects, and to qualify for the University Teachers Certificate, should register in the School of Education at the beginning of the junior year. Detailed information concerning all the courses offered can be found in the University catalogue or in the special bulletins of the College of Agriculture.

The courses in manual arts and physical education are given in the School of Education of the College of Letters and Science. They have been revised and extended to meet the changing needs in ndustrial education.

Agriculture

(1) Graduates of the Long Course in Agriculture, properly registered in the School of Education, will be entitled to receive the University Teachers Certificate upon the recommendation of fitness by the professor of agricultural education, and upon presenting credit in the following special work: Psychology (Philosophy 1), three credits; Education (1, 11, 31, 41, or 90), two credits; Educational Practice A, two credits; Agricultural Education 1, four credits; teachers courses in the College of Agriculture: Agronomy 140 (two credits), Animal Husbandry 128 (two credits).

(2) Graduates of the Middle Course in Agriculture, properly registered in the School of Education at the beginning of the second year, will be recommended by the Director of the School of Education to receive a special license to teach agriculture in the schools of Wisconsin, upon exhibiting evidence of personal fitness for teaching and upon the satisfactory completion of Education 1, 11, 31, 41, or 90 for two credits, Agricultural Education 1 for four credits, Agronomy 140 for two credits, and Animal Husbandry 128 for two credits.

It is suggested that the student select his electives from the following groups:

First Semester Group	Credits	Second Semester Group	Credits
Agronomy 120	3	Horticulture 3	3
Agricultural Engineering 2	2	Poultry 2	2
Economic Entomology 101	3	Soils 2	3
Veterinary Science 3	2	Veterinary Science 2	2
		Agricultural Economics 10	3

Agricultural Education

Course 1 in agricultural education is required of students in the College of Letters and Science registered in the School of Education with a minor in agriculture and of those in the College of Agriculture who take the courses for the training of teachers of agriculture.

For Undergraduates

1. Agricultural Education. II; 4 cr. Origin and development with special reference to the teaching of agriculture in elementary and secondary schools; methods of teaching secondary agricultural subjects. Mr. James.

5. Boys' and Girls' Club Work. I; 2 cr. Place of boys' and girls' clubs in rural education; educational values, methods of

organization, leadership, meetings, demonstrations, follow-up materials, exhibits and reports. For prospective extension workers and teachers. Lectures and demonstrations. Mr. Bewick.

For Undergraduates and Graduates

103. Seminary. Yr.; cr. to be arranged. Mr. Hatch, Mr. James.

103S. Agricultural Extension Methods and Problems. 2 cr. Origin and development of agricultural extension work in colleges, organization and administration under Smith-Lever law; types of extension in progress; activities and future developments in extension. Mr. Hatch.

105S. Vocational Agriculture. 2 cr. Types, methods of instruction and results of secondary vocational agriculture at home and abroad; adjustments to meet economic and social conditions in different sections of this country; national system education and the plans of different states for secondary and teacher training development; courses of study, equipment, methods of instruction, directed practice in agriculture and its supervision; the Smith-Hughes Law. Mr. James.

110. Training Course for County Agents. II; 2 cr. Development and administration of the county agent system; the agent's responsibilities to the federal and state government and the community; projects, plans for work and county organization, relation to college specialists and local organizations. Open to seniors and graduate students. Mr. Hatch.

200. Special Problems (Research). Cr. to be arranged. Topical work relative to problems of elementary, vocational or collegiate agricultural education, extension, county agent, or demonstrational work. Mr. Hatch, Mr. James.

Thesis. Yr.; 2 cr. Original work on problems of agricultural extension or teaching. Mr. Hatch, Mr. James.

Special Teachers Courses

Animal Husbandry 128. The Teaching of Animal Husbandry. I; 2 cr. Department of Animal Husbandry. Mr. Hulce.

Agronomy 140. The Teaching of Plant Production. II; 2 cr. Department of Agronomy. Mr. Mortimer.

Home Economics

The Department of Home Economics is connected with the College of Agriculture for administrative purposes and the faculty

of this college gives instruction in certain subjects, such as food, chemistry, and bacteriology.

The faculties of the various other colleges, schools, and courses of the University give instruction in certain required and elective subjects offered to students taking the Course in Home Economics.

Courses are provided for various classes of students, including those who are preparing to teach home economics in secondary schools and in higher institutions, and those who are preparing to teach the vocation of home making in the vocational and continuation schools of the state.

Degree

The degree of Bachelor of Science (Home Economics) is conferred upon those who complete 120 credits, of which thirty-five to forty-three are in home economics. 120 grade points are required for graduation. (124 credits are required for the University Teachers Certificate.)

General Course in Home Economics

See pp. 303ff.

Majors in Home Economics

Instead of taking the general course, at the beginning of the junior year, the student may choose a major in textiles, foods, hospital administration, applied bacteriology, or the vocational education major in home-making (Smigh-Hughes). See pp. 306ff.

The requirements for a major in home economics are not less than 26 credits nor more than 33 credits in strictly home economics subjects taken during the junior and senior years.

The outline of the work of the junior and senior years for the various majors on pp. 305ff., or in the Home Economics departmental bulletin.

Requirements for the University Teachers Certificate, Home Economics

Major. In the general major, the food major, the textile major, or the vocational major, the minimum requirements in home economics subjects taken during the junior and senior years are twenty-six, four of which represent thesis credit. The special courses vary with the major, but not more than forty-three strictly

home economics credits may be counted toward the 124 credits required for graduation. The following courses in psychology and education are required:

Psychology (Philosophy 1)	3 credits
Educational Psychology (Education 41) or Mental Development (Education 11) or Humanics (Home Economics 109)	3 credits
Principles of Education (Education 31)	3 credits
Technique of Education (Education 90)	2 credits
Departmental Teachers Course	2 credits
Educational Practice (Education A)	2 credits
	15 credits

Minor. A minimum of fifteen to twenty credits. A minor may be taken in foods, textiles, or housing problems.

(1) A teaching minor in foods must include the teachers course, in addition to Home Economics 1a, 3, 4, and such other related courses as to make fifteen to twenty credits in strictly home economics subjects.

(2) A teaching minor in textiles must include the teachers course, Home Economics 2, 5, 50, 11, and other courses in home economics to complete twenty credits. A teaching minor must include the teachers course.

(3) The housing minor is offered to students majoring in sociology in order that those intending to do social settlement work, or social welfare work, will have a broad foundation knowledge of the fundamental problems in housing. Home Economics 1a, 1b, 70, 74, and 123 are included in the minor.

Departmental Teachers Courses. Home Economics 121. The Teaching of Home Economics in High Schools. Prerequisite: a major or minor in home economics. 2 cr. Miss Dodge, Miss Arbogast.

Home Economics 124. Vocational Education in home making. History and Methods. 2 cr. Miss Schmit, Miss Marlatt.

Manual Arts

See also Department of Manual Arts, p. 172ff.

The Department of Manual Arts, in cooperation with allied departments, aims to reach three principal classes of students: First,

those for whom the teaching of manual arts is a major subject; second, those who desire to make the teaching of some aspect of the work a minor subject; third, students for whom such courses as those announced may constitute part of a program of liberal study.

The Department of Manual Arts conducts courses in the several lines of shop work, drawing and design taught in public high schools and in related matters such as organization and maintenance, history and literature, and supplies and equipment. The department is the center in the University for the study of vocational industrial education and the applied arts. Cooperation with several allied departments is maintained.

Adequate facilities for all laboratory courses are made possible by the use of the full equipment of the shops, laboratories, and drawing rooms of the College of Engineering. In addition, the department has a large room fitted up especially for woodworking classes and for the study of supplies and equipment. Through the kindness of manufacturers a large number of exhibits are housed in this room and form an adequate museum of the manual arts. The room is both a laboratory and a lecture room with facilities for demonstration work and investigation. The Wisconsin High School through its Department of Manual Arts furnishes a laboratory for directed teaching.

The Applied Arts Laboratory is conveniently equipped for lower grade construction work, design, and applied design in clay and art metals. A large and well lighted room on the first floor of the Biology Building is used for work in freehand drawing.

Courses announced are open to election by all students, subject to the general university and special college regulations governing elections.

Courses of Study

In view of existing demands for distinct types of teachers and directors of work in the field of manual, industrial, and applied arts, the Department of Manual Arts is organized to give specific four-year, two-year, and shorter unit courses rather than on the basis of major, minor, and free electives made under the advisory system.

The goal of instruction will be to train:

1. Teachers of art, design, and craftwork.
2. Teachers of technical and industrial subjects.

3. Supervisors and directors of regular public school manual, industrial, and applied arts.
4. Special teachers and directors of trades and industry and the related branches under conditions prescribed in the Smith-Hughes law.
5. Students for whom the course as outlined may form part of a program of liberal study.

To this end the following approved courses have been in operation since September 29, 1919.

Four Year Course for Those Preparing to Teach Public School Technical and Industrial Subjects

Leading to the degree of B. S. (Manual Arts)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
History or Language	3–4	History or Language	3–4
Mathematics	3	Mathematics	3
*Manual Arts	3	*Manual Arts	3
1. Woodworking (Bench)	3	1. Woodworking (Machine)	3
Mechanical Drawing	3	Mechanical Drawing	3
	15–16		15–16

Sophomore

Mathematics (Analy. Geom)	3	Descriptive Geometry	3
Physics or Chemistry	5	Physics or Chemistry	5
Freehand Drawing	3	Freehand Drawing	3
*Manual Arts	3	*Manual Arts	3
1. Bench and Sheet Metal	3	1. Elec. Cons. and Pipe Fitting	3
2. Design: Line and Form	3	2. Design: Surface Enrichment	3
Electives	2–4	Electives	2–4
	15–16		15–16

Junior

First Semester

	Credits
Psychology	3
Education	3
*Manual Arts	6–9
1. Elem. Const'n Work	3
2. Pattern Making	3
3. Shop Planning and Installation	3
4. Pottery	3
Electives	3
	15–16

Second Semester

	Credits
Education	3
*Manual Arts	7–10
1. Building Construction	3
2. Pattern Making (Adv).	3
3. Organization and Administration Inds. Ed.	2
4. Art Metal	3
Electives	5
	15–16

Senior

Education	2
Education A	2
*Manual Arts	7–9
1. Hist. of Indus. Education	2
2. Teaching and Supr. Inds. Ed	2
3. Tests and Measurements (Seminar)	2–3
4. Job Analysis	2
5. Curriculum Building	2
6. Forge	3–4
7. Machine Shop	3–4
8. Thesis	2
Electives	4
	15–16

*Manual Arts	9–11
1. Foremanship Training	2
2. Teaching Special Subjects	2
3. Pub. Sch. Observation and Practice	2–3
4. Vocational Education Direction and Guidance (Seminar)	2
5. Foundry	3–4
6. Machine Shop	3–4
7. Thesis	2
Electives	7
	15–16

Note: Requirement for graduation, 124 credits.

*Under present conditions courses will normally be as listed, to be placed on study lists for semesters indicated. Courses and time for scheduling same, however, are subject to change.

Four Year Course for Those Preparing to Teach Public School Drawing, Design, and Craft Work

Leading to the degree of B. S. (Manual Arts)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
History or Language	3	History or Language	3–4
Mathematics, Biology, or Chemistry	3–5	Mathematics, Biology, or Chemistry	3–5
*Manual Arts	3	*Manual Arts	3
1. Modeling	3	1. Woodworking (Bench)	3
Freehand Drawing	3	Freehand Drawing	3
	15–16		15–16

Sophomore

English 30 or 2	2–3	English 30 or 2	2–3
History or Language	3	History or Language	3
*Manual Arts	3–5	*Manual Arts	3–5
1. Applied Drawing and Painting	2	1. Applied Drawing and Painting	2
2. Design Line and Form	3	2. Design: Surface Enrichment	3
Mechanical Drawing	5	Mechanical Drawing (Architectural)	3
Electives	5	Electives	5
	15–16		15–16

Junior

Psychology	3	Education	3
Education	3	*Manual Arts	7–10
*Manual Arts	6–9	1. Art Metal	3–4
1. Art Metal (Jewelry)	3	2. Wood Finishing	3
2. Elem. Construction Work	3	3. Pottery	3–4
3. Pottery	3	4. Commercial Arts	4
Electives	4	Electives	6
	15–16		15–16

Senior

First Semester	Credits	Second Semester	Credits
Education	2	*Manual Arts	9–11
Education A	2	1. Supervision and Teaching of Special Subjects	2–3
*Manual Arts	7–9	2. Vocational Education and Guidance	2
1. Curriculum Building for Art and Industry	2	3. Org. and Adm. of Indus. Education	2
2. History of Indus. Education	2	4. Advanced Design	2–3
3. Tests and Measurements	2	5. Thesis	2
4. Teaching and Supr. of Inds. Ed	2	Electives	7
5. Art Structure	2–3		
6. Experimental Design	2–3		
7. Thesis	2		
Electives	5		
	15–16		15–16

Note: Required for graduation, 124 credits.

Electives indicated in either of the four-year courses of study may be made from subject courses administered by the Department of Manual Arts if professional requirements so demand. In no case shall the total number of credits for Manual Arts subjects, exclusive of six credits for drawing, exceed one-half the total number of credits earned by a student and accepted in fulfillment of the requirements for graduation.

It is understood that present university rules on electives shall control in the election of subject-courses included in each of the four-year courses of study for those not registered for either of them.

Two Year Course For Graduates of an Industrial Normal School

Leading to the degree of B. S. (Manual Arts)

The conditions governing the administration of the four-year courses in Manual Arts shall control in the administration of this course except as follows:

(a) Transfer of credit for academic subjects shall be under existing university regulations, not including those pertaining

*Under present conditions courses will normally be as listed, to be placed on study lists for semesters indicated. Courses and time for scheduling same, however, are subject to change.

to graduates of Wisconsin normal schools who seek the Normal Ph. B. degree.

(b) Transfer of credit for industrial arts and vocational education subjects shall be made upon the basis of the recommendation of the Department of Manual Arts which shall use in this evaluation *The Evaluation Standards of the Central States Conference of Directors and Supervisors of Manual Arts.*

(c) Without interfering with standards as herein prescribed transfers of credit shall be made, if possible, to permit a student who has completed the work of an accredited four-year high school and, in addition, two years of approved work in an industrial normal school or an institution of normal or college grade, to graduate in two years. The two-year course is to be determined for each registrant by choosing from the appropriate *Four Year Course of Study in Manual Arts* those subjects for which he does not have credit or which he has not pursued.

Smith-Hughes Courses for Those Who Desire to Teach Trades and Industry or the Related Subjects as Prescribed by State and Federal Laws

The Department of Manual Arts will administer courses in accordance with state and national prescriptions in the training of teachers of trade and industry. At different times in the past the department has been instrumental in organizing special groups of mechanics in order to assist them, by means of short courses, to prepare for teaching in Wisconsin continuation schools or other vocational or trade schools. Under the new organization the department will, if possible, organize similar classes to be given instruction in accordance with the provisions of the Smith-Hughes law and those for the Wisconsin State Board of Vocational Education.

For several years the University of Wisconsin, through the agency of the Department of Manual Arts acting for and with the Extension Division of the University, has conducted evening courses of study in Milwaukee, Wisconsin, for tradesmen preparing to teach industrial subjects. The department is prepared to continue this work, to modify it to conform to Smith-Hughes requirements, and to assist in the organization and conduct of similar instructional work in other Wisconsin centers. In doing this it will not seek to set up an independent organization, but will endeavor to cooperate in any way possible with local agencies, the

Wisconsin State Board of Vocational Education, and the Federal Board of Vocational Education.

A registrant for courses given under the heading of *Vocational Courses for Teachers of Trade and Industry* shall be admitted as a special student. Upon the completion of any unit of work or prescribed special course, he shall receive a certificate specifying his accomplishment.

Graduate Work

Independently, and in conjunction with the Department of Education and allied departments, ample opportunity will be afforded for graduate study leading toward the advanced degrees.

It is recognized that a department in a University School of Education, equipped to train teachers of manual, industrial, and applied arts, should aim to encourage and aid graduate study in the field of industrial and vocational education. This perhaps should be its chief mission.

In the School of Education every possible effort will be made to offer courses and provide the necessary means for advanced study and experimentation which will develop, and to furnish the required knowledge and ability for positions of leadership in public school manual arts and state and federal aided industrial education.

Physical Education

For further information see Department of Physical Education, page 185.

Professional courses for teachers of physical education and for directors of play and recreation were organized at the beginning of the year 1911–12. The course is designed to provide a four-year professional preparation for those preparing to become instructors in physical education or directors of playgrounds and recreation centers. Provision is also made for students who desire to do their minor work in physical education in preparation for combining leadership in physical education activities with academic subjects in the high school, for students who desire a familiarity with the problems of physical education as a part of their equipment as principals or superintendents in public schools or for positions as directors of social centers, and for students desiring academic courses in physical education as a part of a liberal education.

Four Year Course in Physical Education

Leading to the degree of B.S. (Physical Education)

Freshman

First Semester	Credits	Second Semester	Credits
English	3	English	3
Language	4	Language	4
Physics	5	Zoology 1B	5
History or Math	3	History or Math	3
Phy. Ed. 20 (req.)		Phys. Ed. 20 (req.)	
	14–16		14–16

Sophomore

Chemistry	5	Chemistry	5
Psychology	3	Language or Elective	3
Language or Elective	3	Anatomy	6
Hist. and Prin. Phys. Ed.	3	Spec. Tech	1
Spec. Tech	1	Elective	1
Elective	1	Phys. Ed. 20 (req.)	
Phys. Ed. 20 (req.)			
	14–16		14–16

Junior

Kinesiology	3	Physiology 115 (gen.)	7
Physiology 114 (Physiol. Chem.)	3	Hygiene	2
Nature and Function of Play	3	Spec. Tech	3
Spec. Tech	3	Education	2 or 3
Education	3	Phys. Ed. 20 (req.)	
Elective	2		
Phys. Ed. 20 (req.)			
	14–16		14–16

Senior

Physiology 116 or Phys. of Exercise	3	Phys. Diagnosis	3
Teaching and Adap.	3	Therapeutics and Phys. Exams	2
Therapeutics and Physical Exams	2	Phys. Ed. 19 (Practice Teaching)	1
Phys. Ed. 19 (Practice Teaching)	1	Organization and Administration	2
Thesis	2	Thesis	2
Elective	3 or 5	Elective	3 or 5
Phys. Ed. 20 (req.)		Phys. Ed. 20 (req.)	
	14–16		14–16

ELECTIVES IN PHYSICAL EDUCATION

Scouting (Theory and Practice)	2	First Aid	1
Special Technique	2	Public Recreation	2

A. The total number of credits required for graduation is 124.
B. The degree conferred is B. S. in Physical Education.
C. Students who present two units of foreign language or less are required to secure 14 credits in one language. Students who present four units are required to secure eight credits in one language.
D. Special Technique above refers to special instruction in Physical Training and Athletics.

Minor

Students electing physical education as a minor subject must take courses 20 (for two years), 59, 90 (three credits each), and 21-50 (four credits); a minimum of ten credits. Physical Education 19 or Education A may also be required depending on the major subject of the student. Additional credits may be secured in courses 16, 21–50, 55 and 80, but the total credits shall not exceed twenty. Prerequisites are zoology or chemistry, Physiology 1 and Philosophy 1, and at least three credits in elementary education.

Departmental Teachers Course. Principles of Teaching and Adaption. (Physical Education 90) I; 3 cr. Miss Trilling.

Fellowships

Two resident fellowships, with an annual value of $500 each, are provided in the School of Education. These fellowships are assigned by vote of the Faculty of the School of Education to graduate students who are interested primarily in the problems of teaching subjects that come within the scope of the School of Education.

The purpose of the fellowships is to encourage advanced work toward higher degrees by students who expect to take charge of special teachers' courses in normal schools, colleges and universities. They are not primarily designed for University students of the current graduating class who are preparing to teach in the secondary schools. The holders of these fellowships are expected to do graduate work in the departments concerned and in the Department of Education. It is expected that the research work will be under the joint supervision of the Director of the School of Education and the adviser selected in the Department in which the fellowship is assigned. The University receives calls for trained teachers of special methods courses, and the fellowship plan contemplated here is primarily to encourage graduate students of experience who are interested in pedagogical problems.

Further information concerning these fellowships may be obtained from the Director of the School of Education.

Industrial Scholarships

For the purpose of encouraging advanced study and special professional preparation for teaching in industrial vocational schools, the Regents have established four industrial scholarships to be awarded to senior or graduate students in the University of Wisconsin. Each scholarship has an annual value of $200. Appointment is for one year and is made upon the joint recommendation of the chairman of the Department of Manual Arts and the Director of the School of Education.

Further details concerning these scholarships may be obtained from the Chairman of the Department of Manual Arts.

Special Industrial Scholarships

Each year the Department of Manual Arts conducts what is known as the Mechanics Institute. This institute is composed of the holders of special industrial scholarships. The Regents of the University have established twelve of these scholarships for the purpose of encouraging skilled craftsmen to prepare to teach industrial arts in public schools, especially public continuation schools. Each scholarship entitles the holder to an honorarium of $60, paid at the conclusion of the institute which is held for eight weeks, usually during the months of April and May. Detailed information relative to the requirements for appointment to the special industrial scholarships and to the work of the Mechanics Institute will be furnished upon request to the Chairman of the Department of Manual Arts.

Special Lectures

In order that the School of Education may be maintained and developed in close relation with the practical educational interests of the state, the University arranges, from time to time, for special lectures by presidents and professors of normal schools, superintendents, principals, and others engaged in educational work.

Relations With Madison Public Schools

By the terms of a formal agreement entered into by the Regents of the University and the Board of Education of the city of Madison, the classes of designated teachers in the Madison High School and specified elementary schools are open to students in the School of Education for the observational study of teaching.

COLLEGE OF ENGINEERING

FREDERICK E. TURNEAURE, DEAN, PROFESSOR OF ENGINEERING.

Organization of the College

The College of Engineering is organized in the belief that a thoroughgoing fundamental training is the first essential to a successful engineer, but that this fundamental training may be best secured not alone by theoretical study, but by giving attention as well to the practical application of the principles involved. It is further a leading thought that after the fundamental principles have been mastered, a certain measure of specialization in the main lines of engineering is advisable. In carrying out this plan the mathematical and theoretical courses are made strong in the earlier years, and a limited number of professional courses are given in the later years, while the drawing and shop courses continue progressively from the beginning to the end. Those who desire to elect foreign language are given an opportunity to secure a reading knowledge of professional German, French, and Spanish literature. Special attention is given to the subject of English composition.

Requirements for Admission to the Courses Leading to the B. S. Degree

See pp. 88ff.

Preparation in Algebra for Engineering

All students entering the College of Engineering will be tested in algebra by class work and by an examination given shortly after the beginning of the first semester. It is essential that students in the engineering courses shall possess a good working knowledge of algebra *at the beginning of their course*, and it is the purpose of the test to secure this by requiring a review of the subject shortly before entering the University. Students failing in the test are not permitted to continue with regular freshman mathematics, but are required to

The College of Engineering Circular, giving detailed information concerning the College, may be obtained upon application to the Registrar of the University.

take a review of preparatory algebra during the first semester. A special course (for which no University credit is given) is provided for this purpose.

In performing the fundamental operations of algebra, such as multiplication and division, the use of parentheses, the solving of numerical and literal equations of the first and second degrees, the simplifications of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should have distinct notions of the meaning and reasons for all that he does, and be able to state them clearly in his own language. He should be able to perform all these operations, even though somewhat complex, with rapidity, accuracy, and neatness. In his preparatory studies the student is advised to solve a great many practical problems and to describe fully the reason for the steps taken.

Student Advisers

In the selection and arrangement of studies, all students are under the supervision of advisers. It is the duty of the advisers to issue class cards at the opening of each semester, admitting students to their classes, to receive the regular semester reports from instructors, and special reports on deficient students, and to report to the Faculty all cases requiring special action.

Reports to parents or guardians on the work of students are sent from the Registrar's office at the end of each semester.

Fees and Expenses

See pp. 62ff.

Equipment

Buildings

The main building of the College of Mechanics and Engineering contains the offices, recitation and drawing rooms, the engineering library, and laboratories for work in mechanical engineering, steam, and the testing of materials. A second building contains the electrical laboratories and the various departments for shop instruction; a third, the laboratories for chemical engineering; a fourth, the hydraulic laboratory; and a fifth, the mining building, the ore dressing and assaying laboratories.

For chemistry the engineering students go to the Chemistry Building, for physics to the Physics Building, and for language, mathematics, and other similar work, to the literary halls of the University. In this way the students of engineering come into daily contact with the students in the other courses.

Libraries

For a general account of library facilities of the University see page 60.

The engineering library is housed in the main engineering building, where reading-room facilities are provided for about one hundred students. The collection of technical books is very complete and includes files and current numbers of about two hundred and fifty periodicals.

Laboratories and Apparatus

The Bridge Engineering Department owns several autographic extensometers and a deflectometer for determining bridge stresses under moving train loads. The department also possesses a large number of photographs, drawings, and lantern slides illustrating details, erection methods, and complete structures of a great variety of design.

The Chemical Engineering Laboratories located in the Chemical Engineering Building are equipped for technical gas and fuel examinations, the equipment comprising all standard forms of analytical apparatus, gas and fuel calorimeters. Steam stills, rectifying stills, evaporators, centrifugals, vacuum dryers, digesters, vacuum and pressure pumps, melting, roasting and calcining furnaces, and other similar apparatus are installed for the study of chemical manufacture.

In the crushing and grinding room are various commercial types of course and fine crushers and disintegrators for treatment of ores and other raw materials. Magnetic, electrostatic, and other forms of separators are included in the equipment.

The applied electrochemistry equipment comprises a great variety of electrochemical appliances, a complete electroplating and refining room, an electric furnace room with various types of furnaces and sources of power, both alternating and direct, aggregating over 250 horsepower.

A complete equipment of base metal and platinum thermocouples, resistance thermometers, radiation and optical pyrometers, millivoltmeters, potentiometers, and furnaces are available for the testing of steels, refractory materials, ores, etc.

Metallographic microscopes of various types, furnaces, pyrometers, grinding and polishing machines, and photographic rooms are installed for the study of the structure and effects of heat and mechanical treatment on metals and alloys.

The Electrical Laboratory equipment may be classified under the headings: Dynamo, Photometric, Electric Standards, High

Tension, Telephonic, Radio, and General Research Equipment. Their equipment is unusually complete and every facility is offered for efficient work. The Department of Electrical Engineering cooperates with the Wisconsin Railroad Commission in the use of its laboratories for standardizing work.

The Hydraulic Laboratory, which occupies its own building, is located on the shore of Lake Mendota. The facilities, therefore, are especially good for studying problems where large quantities of water under low heads are required. A 220,000 gallon concrete reservoir 60 feet above the laboratory on the bluffs supplies water under very steady heads. The university water works pumping station and pressure storage tank house, which immediately adjoins the hydraulic laboratory, provides a water supply under heads up to about 170 feet. The laboratory is unusually well equipped. It has a thirty-inch centrifugal pump furnishing up to 35,000 gallons per minute, five concrete measuring chambers with a total capacity of about 10,000 cubic feet, various weir boxes and weirs, pipes of different materials and sizes, Venturi, and meters of disc and piston type, turbines, overshot and tangential wheels, pumps of various types, including two air lift pumps, hydraulic rams, and a full supply of apparatus designed for experimental purposes.

The Machine Shop affords excellent facilities for mechanical practice. It embraces a main machine room properly equipped; a carpenter shop supplied with wood-working machines; a forge room provided with forges and their equipment, with blast and exhaust fan and annealing and case-hardening furnace; a foundry room whose equipment consists of a cupola, brass furnace, and core oven with the necessary small tools; a woodwork room supplied with benches, carpenter tools, and wood turning lathes; and a pattern room furnished with the requisite tools.

The Mining and Metallurgical Building contains about ten thousand square feet of floor space. The assay laboratories include a furnace room, a chemical laboratory, and a balance room equipped with all the important types of fire assay apparatus. The ore dressing laboratories include crushing, grinding, sizing, classifying, concentrating, and amalgamating equipment. The metallurgical equipment comprises special types of furnaces and testing apparatus, cyanide plant, pyrometers, and other accessories; and the clay manufactures laboratory is equipped with crushing and moulding machines, dryers and kilns. Special facilities are offered for research.

The Steam and Gas Engineering Laboratory is well equipped with a variety of steam and gas engines, specially arranged for experimental work, and for demonstration of the principles discussed in the classroom. One of the most important of these is a fifty horsepower cross compound steam engine specially arranged for testing with either superheated or saturated steam. Another important item is a fifteen-ton refrigerating plant, consisting of a Corliss engine direct-connected to a horizontal double-acting ammonia compressor. With the above compressor there are installed double pipe condensers and brine coolers, brine tanks, and brine coils.

This laboratory also contains a twenty-five kilowatt steam turbine, a fifty horsepower two-stage air compressor directly connected to a compound condensing engine equipped with the Meyer valve gear; also various other types of steam, gas, gasoline, and hot air engines, automobile engines, and gas producers, and a small vertical boiler and engine. A 150 H. P. electro-dynamometer of the latest type and equipment is worthy of particular mention. This is suitable for testing automobile and similar engines at any speed up to 3500 revolutions per minute. Special equipment has recently been completed for the measurement of air by a number of different methods. A very complete apparatus for testing the efficiency of shaft bearings of various types has been built in the college shops and is now used by students in regular laboratory courses. The equipment of the University Heating Plant, the Capitol Heating Plant, and the plant of the Madison Gas and Electric Company, are available and are used by the students as part of their regular laboratory work.

Transmission dynamometers, belt testing machines, gear transmission, friction testing machines, etc., are provided for experimental work in the transmission of power.

Excellent facilities are also provided for carrying on engineering research. Special facilities are available to graduate students who wish to pursue advanced research.

The Surveying Laboratory contains all the portable astronomical and field instruments needed for extensive triangulation, topographic, hydrographic, and railroad surveys, including theodolites, altazimuth, tidal gauge, heliotropes, Kern precise-level and new U. S. C. & G. S. precise-level outfits, sounding apparatus, baseline apparatus, including a new "invar" tape, current meters, transits, compasses, levels, plane tables, telemeters, and such special instruments as planimeters, pantographs, sex-

tants, computing machines, aneroid barometers, etc. By an agreement with the director of Washburn Observatory, the surveying laboratory shares in the free use of the extensive apparatus belonging to that observatory, including, in addition to the large equatorial telescope and the meridian circle collimators, transit micrometers, chronograph, sidereal and meantime clocks, zenith telescopes, a transit instrument of the broken type, chronometers, an altazimuth, a universal instrument of the German type, spherometer calipers, and a complete set of meteorological instruments.

The Road Material Testing Laboratory contains a standard N. B. M. brick rattler of the latest type, a four-cylinder Deval abrasion machine, a Page impact machine for testing the toughness of rock, a ball machine, a diamond drill, a diamond saw, and a standard impact machine for testing the cementing power of rocks.

Arrangements have been made with the Chemical Engineering Department whereby special instruction is given to highway engineers on the chemistry of bituminous materials, and excellent opportunities are offered for learning the usual laboratory tests on asphalts, tars, and oils. See Roads and Pavements 104 and Chemical Engineering 121.

The Testing Laboratory is supplied with a 600,000 pound hydraulic universal testing machine (designed in the laboratory) taking tension and compression specimens 10 feet and beams 20 feet long, a Riehlé torsion machine taking shafts 15 feet long and 3 inches in diameter, a 100,000 pound Johnson beam machine taking beams 18 feet long, six Olson and Riehlé universal machines from 10,000 to 100,000 pounds capacity, a Thurston torsion machine, a Russell impact machine, a Deval abrasion machine, a Dorry abrasion machine, a standard brick rattler, a Brinell hardness tester, several small beam and wire machines, a refrigerator and a gas furnace for freezing and heating tests, a Smith concrete mixer, and a good equipment for tests of cement and plain and reinforced concrete.

The Cement Laboratory contains a full supply of necessary apparatus for making standard tests: baths, recording thermometers, Boehme hammer, complete one-thousand-pound Riehlé and Fairbanks testing machines, etc.

The Forest Products Laboratory is conducted in co-operation with the work of the University, and offers especially valuable opportunities for engineering students to carry on advanced study and research pertaining to the utilization of forest products. The equipment of this laboratory is described under Forest Products

Laboratory. (See Index.) Its completeness makes it possible to approximate commercial conditions much more closely than is done in the ordinary laboratory work.

The investigative work of the laboratory includes the following fields: (1) Timber Physics, (2) Timber Mechanics, (3) Wood Preservation, (4) Wood Distillation, (5) Wood Pulp, (6) Chemistry of Wood, (7) Lumbering, and (8) Glues, Veneers and Plywood.

The Paving Material Museum includes an excellent exhibit of paving supplies and samples of both old and new pavements, both foreign and domestic, for use in the courses in roads and pavements.

The Engineering Museum contains a collection of models illustrating problems in descriptive geometry, stereotomy, and kinematics, besides many models of bridges and hydraulic structures. There are also numerous industrial exhibitions of engineering interest and value.

A further description of the engineering laboratories and museums may be found in the separate bulletin issued by the College of Engineering.

Courses of Study and Degrees

Courses Leading to the B. S. Degree

The College of Engineering offers five systematic four-year courses leading to the B. S. degree:

Civil Engineering.
Mechanical Engineering.
Electrical Engineering.
Chemical Engineering.
Mining Engineering.

Students who complete any of the above four-year courses are graduated with the degree of bachelor of science, the diploma containing a specific designation of the course taken.

The above courses may also be taken as five-year courses leading to the B. S. degree. The additional year will make it possible to include a large amount of work in the College of Letters and Science.

Graduate Work

The graduate work in the College of Engineering is a part of the Graduate School of the University, and is in charge of an administrative committee. Excellent opportunities are offered in the various departments for advanced theoretical work and for research. A

special fund is available to be devoted exclusively to experimental work in the engineering laboratories.

The degrees of civil engineer, mechanical engineer, electrical engineer, chemical engineer, and engineer of mines are conferred as second degrees (a) upon graduates of approved institutions who have completed suitable undergraduate courses and who pursue advanced professional study at the University for one year or more, present a satisfactory thesis, and pass an oral examination upon the field of their graduate work; (b) upon graduates of the College of Engineering of the University of Wisconsin who have spent three years in professional work, at least one of which must have been in a position of responsibility and who present a satisfactory thesis.

The degrees of master of science and doctor of philosophy are conferred upon graduates of the engineering courses under the same requirements as apply to graduates of other Divisions of the University. For a statement of these requirements see Index under Degrees.

Six-Year Courses Leading to the B. A. Degree and an Engineering Degree

By properly arranging their elective studies, students in the College of Letters and Science secure the B. A. degree at the end of four years, and the B. S. degree in engineering in two additional years. These students will register in the College of Letters and Science during the first four years of residence.

They will elect during their collegiate course the studies of the first two years of the engineering course which they plan to pursue later, with the exception of shop work. This may be taken as an extra study, or may be taken during vacation time. Upon receiving the B. A. degree they will be admitted as juniors in the College of Engineering.

By utilizing the opportunities offered in the summer session students may in most cases secure the professional degree at the end of the sixth year.

Summer Vacation Work

All engineering students are required to take summer vacation work in addition to the work of the four academic years. For civil engineering students this work consists of four weeks of field work, following either the sophomore or the junior year. For mechanical engineers, the requirement consists of not less than seven weeks of approved summer work in industrial practice. The electrical engi-

neers are required to take four weeks of approved summer work in an engineering or industrial organization. The Chemical Engineers, at the close of the junior year, are required to work five weeks in the university laboratory on chemical manufacture.

Inspection Trips

Inspection trips, for visiting industrial plants, are required of all engineering students during the junior or senior year. They are arranged and conducted by members of the faculty of the various departments and are designed to illustrate the work of the several courses.

The electrical and mechanical engineers take the trip in the autumn of the senior year. The student generally has the choice between the eastern trip, including usually Chicago, Niagara Falls, Buffalo, Pittsburg, Cleveland, and Gary, and the western trip including Milwaukee, Chicago, and cities in the near vicinity. Each of these trips lasts a week.

The civil engineers visit the cities of Chicago and Milwaukee, one in the spring of the junior year, the other in the autumn of the senior year. Each of these trips takes three to four days.

The chemical engineers make a week's visit to Milwaukee, Chicago, and points near by in the spring of the junior year.

Mining engineers spend a considerable portion of two summer vacations at work in the different mining regions and metallurgical centers. A very detailed report is submitted of their observation of conditions, methods, and operations in the district visited.

In metallurgy the students inspect the metallurgy works around Chicago, the trip lasting a week.

Thesis

According to the university rule every candidate for a bachelor's degree must present a thesis or its equivalent. In the College of Engineering wide latitude is allowed both in the choice of subject and method of treatment. The thesis may take the form of library work, laboratory research, design or special problems.

Freshman Lectures

The College has provided for a course of lectures for freshmen. Attendance is required. In the lectures of this course the aim is to give the student a more adequate conception of the work of the engineer, to make clearer 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 satisfactory results. The course also includes several lectures on subjects of more general interest.

Special Lectures

It is the practice of the College to provide each year a number of lectures on various phases of engineering practice. These lectures are for the most part given by prominent nonresident engineers and professors; some are given by Wisconsin professors. Their purpose is to enliven the interest of the student and to broaden his horizon, rather than to give specific instruction. The following lectures were given during the academic year 1919–1920:

November 7, 1919.

John R. Allen, director of the Research Bureau of the American Society of Heating and Ventilating Engineers.
"Ventilation."

December 4, 1919.

H. F. Moore, research professor of materials at the University of Illinois.
"The Fatigue of Materials."

January 6, 1920.

Payton McGilvary, class of '16 and manager of the New England Branch of the Curtis Aeroplane Company.
"The Present Status of the Commercial Aeroplane."

January 26, 1920.

E. N. Fales, aeronautic engineer at McCook Field, Dayton, Ohio.
"Recent Researches in Aeronautics."

February 20, 1920.

John A. Fox, director of the National Drainage Congress.
"Reclamation of Land by Drainage."

March 18, 1920.

William M. White, chief engineer and manager of the Hydraulic Department of the Allis-Chalmers Manufacturing Company.
"Power Development at Niagara Falls."

OUTLINE OF ENGINEERING COURSES

CIVIL ENGINEERING COURSE

Leading to the B. S. Degree

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Top. Engr. 1	2	Top. Engr. 2	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

SOPHOMORE YEAR

First Semester	Credits	Second Semester	Credits
Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Drawing 3	3	Mechanics 1, 2	5
Top. Engr. 3	3	Top. Engr. 104	3
Ry. Engr. 1	2	Military Science	1
Military Science	1		
Total	18	Total	18

Topographical Engineering (Summer work), four weeks.

JUNIOR YEAR

First Semester	Credits	Second Semester	Credits
Mechanics 3	5	Mechanics 52	2
Mechanics 51	2	Hyd. Engr. 110	2
Hyd. Engr. 2	4	Ry. Engr. 2	2
Ry. Engineering 2	3	Structural Engr. 2	4
Geology 9	3	Steam & Gas Engr. 7	2
Roads & Pavements 102	2	Economics 1a	4
Engr. Seminary	1	Engr. Seminary	1
		Elective	3
Total	20	Total	20

Railway Engineering (Summer work), two weeks.

SENIOR YEAR

First Semester	Credits	Second Semester	Credits
Structural Engr. 3	3	Engr. Contracts 101	2
Structural Engr. 105	3	Structural Engr. 4	2
Steam & Gas Engr. 127	2	Elect Engr. 149–150	4
Hyd. Engr. 111	3	Ry. Engr. 111	1
Engr. Seminary	1	Engr. Seminary	1
Thesis	1	Thesis	2 to 4
Elective	7	Elective	8 to 6
Total	20	Total	20

Requirements Concerning Elective Studies

At the beginning of the junior year, the student must elect to pursue one of the following groups of studies:

STRUCTURAL OPTION

Junior Year

		Credits	Semester
Mining Engr. 124	Metallurgy of Iron and Steel	2	I or II

Senior Year

Structural Engr. 3	Bridge Design, additional	1	I
Structural Engr. 107	Higher Structures	2	I
Structural Engr. 4	Bridge Design, additional	1	II
Structural Engr. 111	Reinforced Concrete Design	2	II
Structural Engr. 108	Secondary Stresses, or	2	II
Mechanics 106	Advanced Mechanics		
Mechanics 108			

Additional Suggested Electives

Structural Engr. 106, 109, 112

RAILWAY OPTION

Ten credits to be elected from the following group:

		Credits	Semester
Ry. Engr. 103	Maintenance of Way	2	II
Ry. Engr. 105	Economics of Railway Engineering	2	I
Ry. Engr. 107	Advanced Design	2	I or II
Ry. Engr. 108	Signaling	2	II
Ry. Engr. 112	Valuations	2	II
Elect. Engr. 129	Electric Railways	2	II
Min. Engr. 101	Excavation and Tunneling	3	I
Economics 135	Railway Transportation	3	I or II
Economics 136	Railway Rate and Traffic Problems	3	I or II

HYDRAULIC OPTION

Hyd. & San. Engr. 102	Hyd. Machinery Testing	2	I
Hyd. & San. Engr. 104	Water Power Engr.	3	I
Sanitary Engr. 105	Hyd. Machinery	2	II
Sanitary Engr. 112	Sewerage, Drainage & Irrigation	3	II
Sanitary Engr. 113a and 113b	Hyd. Design	4	I or II

MUNICIPAL OPTION

The following courses are required:

Junior Year

		Credits	Semester
City Planning 101	City Planning	2	I
Hygiene 108	Sanitary Bacteriology	4	II

Senior Year

Hydraulic & Sanitary Engr. 112	Sewerage, Drainage, Irrigation	3	II

HIGHWAY OPTION

Highway Engr. 103	Seminary	3	II
Highway Engr. 104	Laboratory	3	II
Struct. Engr. 112	Highway Bridges	2	II
Chem. Engr. 121	Lab. on Bitumens	2	II
City Planning 101	Lay-out of Street Systems	2	I

GENERAL OPTION

All electives are free, excepting that not more than half can be taken in the department providing special optional groups.

MECHANICAL ENGINEERING COURSE

Leading to the B. S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shopwork 1, 2, 3	2	Shopwork 4, 5	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

First Semester	Credits	Second Semester	Credits
Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Machine Design 1	4	Drawing 3	3
Shopwork 6, 13	3	Machine Design 2	1
Military Science	1	Mechanics 1, 2	5
		Military Science	1
Total	17	Total	19

The equivalent of four credits for industrial practice. See Shopwork Course 10.

Junior Year

First Semester	Credits	Second Semester	Credits
Mechanics 3	5	Steam & Gas 22	2
Mechanics 53	2	Steam & Gas 2	4
Steam & Gas 1	4	Hydraulic Engr. 1	3
Machine Design 3	4	Machine Design 4	4
Machine Design 11	1	Machine Design 12	1
Shopwork 7	2	Electrical Engr. 144	3
*Electives	3	Elect. Engr. 130	2
Total	21	Total	19

Senior Year

First Semester	Credits	Second Semester	Credits
Steam & Gas 105	2	Steam & Gas 106	2
Steam and Gas 23	2	Comm. Mech. Engr. 102	2
Comm. Mech. Engr. 101	3	Steam & Gas 124	1
Elect. Engr. 103	3	Shopwork 8, 9	2
Elect. Engr. 132	2	Machine Design 109	2
Shopwork 12	1	Thesis & Electives	11
Electives	7		
Total	20	Total	20

* It is recommended that these electives be on subjects not closely related to technical engineering work.

Must include Water Power, 3 credits, first semester, or Hydraulic Machinery, 2 credits.

ELECTRICAL ENGINEERING COURSE

Leading to the B. S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
English 1a	3	English 1b	3
Drawing 1	3	Drawing 2	3
Shopwork 1, 2, 3	2	Shop 4, 5	2
Chemistry 2	3	Chemistry 2	3
Physical Education	1	Physical Education	1
Military Drill	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Four weeks of approved summer experience in an engineering or industrial organization.

Sophomore Year

First Semester	Credits	Second Semester	Credits
Mathematics 54	4	Mathematics 55	4
Physics 53	3	Physics 54a	3
Drawing 3	3	Machine Design 1	4
Economics 1a	4	Elect. Engr. 140a, 140b	5
Top. Engr. 108	3	Shopwork 6	2
Military Science	1	Military Science	1
Total	18	Total	19

Junior Year

First Semester	Credits	Second Semester	Credits
Mechanics 1, 2	5	Mechanics 3	5
Physics 55	3	Physics 56	3
†Steam & Gas 3a	3	†Steam & Gas 3b	3
Electrical Engr. 141	4	Steam & Gas 28	2
Electrical Engr. 102	2	Electrical Engr. 143a	3
Hydraulic Engr. 1	3	Electrical Engr. 112a	2
		Elective	2
Total	20	Total	20

Senior Year

First Semester	Credits	Second Semester	Credits
Mechanics 53	2	*Contracts 101	2
Machine Design 5	3	Thesis	5
Electrical Engr. 125	2	Electives	12
Electrical Engr. 143b	4		
Electrical Engr. 112b	2		
Electives	7		
Total	20	Total	19

*Commercial Law or Commercial Engineering may be substituted.
†Students may substitute Steam & Gas 1 and 2 required for mechanical engineers and count the additional two credits as elective.

ELECTIVES

Of the 21 elective credits, 13 are free electives and 8 must be selected from the following group of electrical applications:

First Semester	Credits
EE 127—Central Stations and Industrial Applications	3
EE 122—Electric Testing	2
EE 116—Electric Circuits	3
EE 135—Telephony	2
Chem. E. 4—Applied Electro-chemistry	3
EE 154a—Signal Corps Course	3
EE 155a—Signal Corps Course	3
Second Semester	
EE 104—Dynamo Design	2
EE 129—Electric Railways	2
EE 137—Power Distribution and Insulation	3
EE 133—Illumination and Photometry	2
EE 118—Electric Amplifiers and Oscillators	3
EE 154b—Signal Corps Course	3
EE 155b—Signal Corps Course	3

CHEMICAL ENGINEERING COURSE

Leading to the B. S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shop 1, 2, 3	2	Shopwork 4, 5	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

First Semester	Credits	Second Semester	Credits
Mathematics 54	4	Mathematics 55	4
Chemistry 11	5	Mechanics 1, 2	5
Physics 51	5	Physics 52	5
Machine Design 1	4	Chem. Engr. 12, 18	4
Military Science	1	Military Science	1
Total	19	Total	19

Junior Year

First Semester	Credits	Second Semester	Credits
Mechanics 3	5	Steam & Gas 4, 25	5
Steam & Gas Engr. 3a	3	Electrical Engr. 131a	2
Chemistry 120	3	Chemistry 120	3
Chem. Engr. 117	2	Drawing 3	3
Chem. Engr. 119	3	Chem. Engr. 111	2
*Electives	3	Mechanics 53	2
		Electives	3
Total	19	Total	20

Summer Work, Chemical Engineering 114 (Chemical Manufacture), 4 credits.

Senior Year

First Semester	Credits	Second Semester	Credits
Steam & Gas. Engr. 26	1	Contract 101	2
Elect. Engr. 131b, 130	4	Machine Design 5	3
Chemistry 130	3	Chem. Engr. 116	2
Chem. Engr. 101a	5	Chem. Engr. 120	2
Chem. Engr. 15, 116	5	Thesis	5
Elective	2	Elective	5
Total	20	Total	19

***Economics is recommended.**

COURSES IN MINING, METALLURGY, AND GEOLOGY

Leading to the B. S. Degree

Freshman Year

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2	3	Chemistry 2	3
English 1a	3	English 1b	3
Shopwork 1, 2, 3 or Top. Engr. 1	2	Shopwork 4, 5 or Top. Engr. 2	2
Physical Education	1	Physical Education	1
Military Science	1	Military Science	1
Freshman Lectures	0	Freshman Lectures	0
Total	18	Total	18

Sophomore Year

First Semester	Credits	Second Semester	Credits
Mathematics 54	4	Mathematics 55	4
Physics 51	4	Physics 52	4
Chemistry 11	5	Mechanics 1, 2	5
Mineralogy 6	5	Mineralogy 6	5
Military Science	1	Military Science	1
Total	19	Total	19

Junior Year*

First Semester	Credits	Second Semester	Credits
Mechanics 3	5	Mechanics 53	2
Major, Minor, Free Electives	15	Drawing 3	3
		Major, Minor, Free Electives	15
Total	20	Total	20

Senior Year*

First Semester	Credits	Second Semester	Credits
Major, Minor, Free Electives	19	Major, Minor, Free Electives	19
Total	19	Total	19

* At the beginning of the junior year, the student must elect his major and minor studies as follows:
Major to consist of 30–40 credits in any one of the following groups.
Minor to consist of 15–20 credits in any except the major group.
Balance to make 152 credits, free electives.

MINING GROUP

Courses in Mining Engineering
Railway Engineering 104
Structural Design, Structural Engineering 10
Thermodynamics, Steam & Gas Engineering 3
Steam Laboratory, Steam & Gas Engineering 28
Direct Current Machinery, Electrical Engineering 131a
Alternating Current Machinery, Electrical Engineering 131b
Hydraulics 1
General Geology, Geology 1
Economic Geology, Geology 111

METALLURGICAL GROUP

Courses in Metallurgy
Structural Design, Structural Engineering 10
Thermodynamics, Steam & Gas Engineering 3 and 4
Steam Laboratory, Steam and Gas Engineering 28
Direct Current Machinery, Electrical Engineering 131a
Alternating Current Machinery, Electrical Engineering 131b
Physical Chemistry, Chemistry 130
Metallography, Chemical Engineering 119a
Electric Furnaces, Chemical Engineering 102
General Geology, Geology 1
Economic Geology, Geology 111

GEOLOGICAL GROUP

General Geology, Geology 1 or 9
Structural Geology, Geology 114
Economic Geology, Geology 111
Petrology, Geology 108
Other courses on consultation.

Elective for Students in the College of Letters and Science

Students who plan to graduate in Engineering, after taking a degree in the College of Letters and Science, should aim to make the following elections during the undergraduate course, in order that the engineering course may be completed in two additional years:

Mathematics 51 to 55; Physics 1 or 51 and 52; Chemistry 1 or 2; Mechanical Drawing 1, 2, and 3; Topographical Engineering 2, 3, and 4, or Machine Design 1; Applied Mechanics 1 and 2; Electrical Engineering 140a and 140b; Chemical Engineering 18, 12, and 111.

It is well also to elect some or all of the freshman and sophomore shop work, as an extra study.

Graduation in More than One of the Engineering Courses

Graduates in any of the engineering courses may graduate in any other engineering course after one year of additional study. Students who contemplate doing this should, however, make their elections, especially in the senior year, with this end in view.

DEPARTMENTS OF INSTRUCTION

Abbreviations in the announcement of courses; Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

The unit of reckoning the credit is one hour of classroom work per week. Two hours of drawing, laboratory, field, or shop work (which require no outside preparation) count as one hour of classroom work.

Courses Given in the College of Letters and Science

For detailed description of courses given in the College of Letters and Science see Index under Astronomy, Bacteriology, Chemistry, Chemistry of Forest Products, English, Forestry and Wood Technology, Geology, Mathematics, Meteorology, Physics, Economics, German, French, and Spanish.

COURSES GIVEN IN THE COLLEGE OF ENGINEERING

AERONAUTICS

PROFESSORS MAURER, CALLAN*, LARSON.

1. **Aeronautics.** I; 2 cr.
2. **Aeronautics.** II; 2 cr.

CHEMICAL ENGINEERING

PROFESSOR KOWALKE; ASSOCIATE PROFESSOR WATTS; INSTRUCTORS FAHLBERG, MONTILLON; ASSISTANT KOEHLER.

For Undergraduates

4. **Applied Electrochemistry.** I; 3 cr. Short course for juniors and seniors; not open to chemical engineers. Mr. Watts.

*On leave of absence 1919–20.

12a. Fuel and Gas Analysis. I or II; 2 cr. Prerequisites: Chemistry 2, 11. Mr. Fahlberg, Mr. Koehler, Mr. Montillon.

12b. Advanced Analysis. I or II; cr to be arranged. Continuation of 12a. Mr. Montillon.

15. Industrial Chemistry. I; 3 cr. Prerequisites: Chemistry 2, 11, Chemistry 120 r enrollment in same. Mr. Kowalke.

18. Engineering Materials. II; 2 cr. Prerequisite: Chemistry 2. Mr. Watts.

For Undergraduates and Graduates

101a. Applied Electrochemistry. I; 5 cr. Mr. Watts.

101b. Advanced Electrochemistry. II; 1 or more cr. Mr. Watts.

102. Electric Furnace. II; 4 cr. Mr. Watts.

106. Batteries. II; 2 cr. Mr. Watts.

111. Chemical Machinery. II; 2 cr. Mr. Kowalke, Mr. Montillon.

113. Gas Manufacture and Distribution. II; 3 cr. Mr. Kowalke.

114a. Chemical Manufacture. I; 4 cr. Prerequisites: Chemistry 2, 11, 120, Chemical Engineering 111. Required of chemical engineers as summer work, elective for others. Mr. Kowalke, Mr. Montillon.

114b. Advanced Chemical Manufacture. II; 2 or more cr. Mr. Kowalke.

116. Applied Thermal Chemistry. Yr.; 4 cr. Mr. Kowalke.

117a. Technical Pyrometry. I; 2 cr. Prerequisites: Chemistry 2, Physics 51, 52. Mr. Fahlberg, Mr. Montillon.

117b. Advanced Pyrometry. II; 1 or more cr. Continuation of 117a. Mr. Montillon.

119a. Metallography. I or II; 3 cr. Prerequisites: Chemistry 2, Physics 1, 2 or 51. Mr. Kowalke, Mr. Fahlberg.

119b. Advanced Metallography. I or II; cr. to be arranged. Mr. Kowalke.

120. Industrial Organic Chemistry. II; 2 cr. Prerequisite: Chemistry 120. Mr. Kowalke.

121. Analysis of Highway Bitumens. II; 2 cr. Mr. Montillon.

For Graduates

230. Chemical Engineering Research. Hours and credit by arrangement. Mr. Kowalke, Mr. Watts.

231. Seminary. Mr. Kowalke.

CITY PLANNING*

PROFESSOR L. S. SMITH.

For Undergraduates and Graduates

101. City Planning. I; 2 cr. No prerequisites. Mr. Smith.

102. Industrial Housing. II; 2 cr. No prerequisites. Mr. Smith.

103. Real Estate Platting. II; 2 cr. Prerequisite: City Planning 101 or its equivalent. Mr. Smith.

COMMERCIAL MECHANICAL ENGINEERING

ASSOCIATE PROFESSOR LARSON; ASSISTANT PROFESSOR HYLAND.

For Undergraduates and Graduates

101. Commercial Problems. I; 3 cr. Mr. Larson and special lectures.

102. Power Plant Design. II; 2 cr. Mr. Hyland.

103. Industrial Engineering. II; 2 cr. Mr. Larson and special lecturers.

104. Mechanical Engineering Seminary. II; 1 cr. Open to seniors. Mr. Larson.

DRAWING

PROFESSOR PHILLIPS; ASSOCIATE PROFESSOR MILLAR; ASSISTANT PROFESSOR ORTH; INSTRUCTORS ANDERSON, BALDWIN, DAUBNER, DOKE, LIVERMORE, SHIELS, WERRELL.

For Undergraduates

1. Elements of Drawing. I or II; 3 cr. Mr. Phillips, Mr. Orth, Mr. Anderson, Mr. Baldwin, Mr. Daubner, Mr. Doke, Mr. Livermore, Mr. Werrell.

2. Elements of Drawing. I or II; 3 cr. Prerequisite: course 1. Mr. Phillips, Mr. Orth, Mr. Anderson, Mr. Baldwin, Mr. Daubner, Mr. Doke, Mr. Livermore, Mr. Werrell.

3. Descriptive Geometry. I or II; 3 cr. Prerequisites: courses 1, 2. Mr. Millar, Mr. Shiels.

4. Freehand Lettering. I or II; 1 cr. Prerequisites: courses 1, 2. Mr. Orth.

* Students desiring work in planning and planting of public grounds, parks, and home grounds, see courses in Horticulture, College of Agriculture.

ECONOMICS

PROFESSOR SCOTT; ASSOCIATE PROFESSORS HESS, KIEKHOFER; INSTRUCTORS HAAKE, MCKAY, MILLER; ASSISTANTS OLSON, WHYTE.

For Undergraduates

1a. Elements of Economics. I or II; 4 cr. Mr. Kiekhofer and staff.

1b. Elements of Economics. I or II; 4 cr. Mr. Kiekhofer and staff.

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott, Mr. Haake, Mr. McKay, Mr. Olson.

For Undergraduates and Graduates

130a. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Hess.

135. Railway Transportation. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Miller, Mr. Whyte.

136. Railway Problems. I or II; 3 cr. Prerequisite: Economics 135. Mr. Miller, Mr. Whyte.

142a. Public Utilities. I; 2 cr. Prerequisite: Economics 1a. Mr. Hess.

ELECTRICAL ENGINEERING

PROFESSORS BENNETT, JANSKY; ASSOCIATE PROFESSORS WATSON, PRICE; ASSISTANT PROFESSOR KAMMERMAN; INSTRUCTORS CROTHERS, ELLIS, KELSO, KOEHLER, LYON, POLLACK, WISE.

For Undergraduates and Graduates

102. Dynamo Laboratory. Prerequisite: course 141. Mr. Price and laboratory instructors.

103. Alternating Current Machinery. I; 3 cr. Prerequisite: course 144. For mechanical engineers. Mr. Kelso.

104. Dynamo Design. II; 2 cr. Prerequisite: course 141. Mr. Watson.

112a. Alternating Current Laboratory. II; 2 cr. Mr. Price and laboratory instructors.

112b. Advanced Laboratory. I; 2 cr. Continuation of 112a.

116. Electric Circuits. I; 3 cr. Prerequisite: course 143a. Mr. Bennett.

118. Electric Amplifiers and Oscillators. II; 3 cr. Prerequisite: Electrical Engineering 116. Mr. Bennett.

122. Electric Testing. I; 2 cr. Prerequisites: courses 103, 143 or 131. Mr. Crothers, Mr. Wise.

125. Conference. I or II; 2 cr. Open to engineering seniors and graduates. Mr. Bennett, Mr. Kammerman.

127. Electric Central Stations. I; 3 cr. Open to engineering seniors and graduates.

129. Electric Railways. II; 2 cr. Open to seniors.

130. Direct Current Laboratory. I; 2 cr. For mechanical and chemical engineers. Should be accompanied by course 103 or 131a. Mr. Price and laboratory instructors.

131a. Direct Current Machinery. II; 2 cr. For chemical and mining engineers. Prerequisite: Physics 52. Mr. Jansky.

131b. Alternating Current Machinery. I; 2 cr. Prerequisite: course 131a or 103. Mr. Jansky.

132. Alternating Current Laboratory. II; 2 cr. Primarily for mechanical engineers. Prerequisite: course 130. Mr. Price and laboratory instructors.

133. Illumination and Photometry. II; 2 cr. Mr. Wise.

135. Telephony. I; 2 cr. Mr. Crothers.

137. Power Distribution and Insulation. II; 3 cr. Mr. Kammerman.

140a. Fundamentals of Electrical Engineering. II; 3 cr. Introductory course for sophomore electrical engineers. Prerequisites: Physics 53, Mathematics 54. Mr. Bennett, Mr. Crothers, Mr. Lyon.

140b. Electrical Engineering Laboratory. II; 2 cr. To accompany course 140a. Mr. Price and laboratory instructors.

141. Direct Current Machinery, Construction and Operation. I; 4 cr. Mr. Watson.

143a. Alternating Current Machinery. II; 3 cr. Mr. Watson.

143b. Alternating Current Machinery. I; 4 cr. Mr. Price.

144. Direct Current Machinery. II; 3 cr. Primarily for mechanical engineers. Prerequisite: Physics 52. Mr. Kelso.

149. Direct Current Machinery. II; 3 cr. Primarily for civil engineers. Mr. Kammerman,

150. Direct Current Laboratory. II; 1 cr. To accompany course 149. Mr. Kammerman.

154a. Signal Corps Course. I; 3 cr.

154b. Signal Corps Course. II; 3 cr.

155a. Signal Corps Course. I; 3 cr.

155b. Signal Corps Course. II; 3 cr.

This course is the signal course which is required of those electrical engineers who enroll in the signal corps unit of the reserve officers training corps which has been established at the University by the War Department. Men who enroll in the signal corps unit, after satisfactorily completing the course and meeting the military requirements are commissioned in the reserve officers training corps. The course is also open to juniors and seniors in electrical engineering and to students who are taking equivalent training along mathematical and physical lines. Course covers telephony, telegraphy, radio telegraphy, radio telephony. Prerequisite: E. E. 140a. Mr. Bennett, Mr. Crothers, and Mr. Koehler.

For Graduates

214. Advanced Dynamo Laboratory. I or II; 2 cr. Prerequisites: courses 112a, 121b, 143. Mr. Price.

231. Transmission and Distribution of Power. Yr.; 3 cr. Mr. Bennett.

232. Advanced Theory of Electric Circuits. Yr.; 3 cr. Mr. Bennett.

ENGINEERING CONTRACTS AND SPECIFICATIONS

Professor Mead; Instructor Fisbeck.

101. Contracts and Specifications. II; 2 cr.

ENGINEERING ENGLISH AND ENGINEERING JOURNALISM

Associate Professor Van Hagan.

1a. Junior Engineering English. I; 1 cr. To supplement the English work of the freshman year. Prerequisite: English 1b. Mr. Van Hagan.

1b. Junior Engineering English. II; 1 cr. Follows course 1a. Mr. Van Hagan.

2a. Senior Engineering English. I; 1 cr. Follows course 1b. Mr. Van Hagan.

2b. Senior Engineering English. II; 1 cr. Follows course 2a. Mr. Van Hagan.

10. Engineering Journalism. I or II; 1 cr. Mr. Van Hagan.

FORESTRY AND WOOD TECHNOLOGY

H. D. TIEMANN (CHAIRMAN); LECTURERS GERRY, KOEHLER, NEWLIN, MARKWARDT, HUNT.

101. Forestry and Utilization of Wood. I; 2 cr. Open to all engineering students. Mr. Tiemann.

102. Wood Technology. II; 2 cr. For juniors, seniors and graduates. Mr. Tiemann, Mr. Koehler, Miss Gerry.

110. Structural Timbers. II; 1 cr. Prerequisite: Mechanics 2 and 3. Mr. Newlin, Mr. Hunt, Mr. Markwardt, Mr. Wilson, Mr. Koehler.

HYDRAULIC AND SANITARY ENGINEERING

PROFESSOR MEAD; ASSOCIATE PROFESSOR CORP; ASSISTANT PROFESSOR WARD; INSTRUCTOR FISBECK.

For Undergraduates

1. Elementary Hydraulics. I or II; 3 cr. Prerequisites: Mechanics 1, 2. Mr. Corp, Mr. Ward.

2. Elementary Hydraulics. I or II; 4 cr. Similar to course 1 with additional recitation and laboratory work. Prerequisites: Mechanics 1, 2. Mr. Corp, Mr. Ward.

For Undergraduates and Graduates

102. Testing of Hydraulic Machines. I; 2 cr. Prerequisite: course 1. Mr. Corp.

103. Experimental Hydraulics. I or II; 1 to 5 cr. Prerequisite: course 1. Mr. Corp.

104. Water Power Engineering. I; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Fisbeck.

105. Hydraulic Machinery. II; 2 cr. Prerequisite: course 1. Mr. Mead, Mr. Fisbeck.

106. Sewage and Garbage Disposal. I; 1 cr. Mr. Corp.

110. Hydrology. II; 2 cr. Mr. Mead, Mr. Fisbeck.

111. Water Supply. I; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Fisbeck.

112. Sewerage, Drainage, and Irrigation. II; 3 cr. Prerequisite: course 1. Mr. Mead, Mr. Corp.

113a. Hydraulic Design. I; 2 cr. Prerequisites: courses 1, 110. Mr. Mead, Mr. Ward.

113b. Hydraulic Design. II. Continuation of 113a. Prerequisites: courses 1, 110, 113a. Mr. Mead, Mr. Ward.

MACHINE DESIGN

ASSISTANT PROFESSOR HYLAND; INSTRUCTORS MACLEAN, PLATT.

For Undergraduates

1. Mechanism. I or II; 4 cr. Prerequisites: Mechanical Drawing 1, 2. Mr. Hyland, Mr. Platt.

2. Valve Gears. I or II; 1 cr. Prerequisite: course 1. Mr. MacLean, Mr. Platt.

3. Machine Elements. I or II; 4 cr. Primarily for mechanical engineers. Prerequisites: course 1, Mechanics 1, 2. Mr. MacLean.

4. Advanced Machine Design. I or II; 4 cr. Prerequisite: course 3. Mr. MacLean.

5. Machine Elements. I or II; 3 cr. Similar in scope to course 3. For electrical and chemical engineers. Prerequisites: course 1, Mechanics 1, 2, 3. Mr. MacLean.

6. Advanced Machine Design. I or II; 2 cr. Similar in scope to course 4. For electrical engineers. Prerequisite: course 5. Mr. MacLean.

7. Chemical Machine Design. II; 2 cr. For chemical engineers. Prerequisite: course 5. Mr. MacLean.

8. Patent Office Drawing. I or II; 1 cr. Requirements of U. S. Patent Office. Prerequisites: Mechanical Drawing 1, 2. Mr. Hyland.

11. Machine Testing. I or II; 1 cr. Mr. Hyland, Mr. MacLean.

12. Advanced Machine Testing. II; 1 cr. Continuation of 11. Mr. Hyland, Mr. MacLean.

For Undergraduates and Graduates

109. Design of Special Machines. II; 2 cr. Prerequisite: course 4 or 6. Mr. MacLean.

110. Logging and Wood Working Machinery. II; 2 cr. Prerequisite: course 3 or 5. Mr. Hyland.

MECHANICS

PROFESSOR MAURER; ASSOCIATE PROFESSOR WITHEY; ASSISTANT PROFESSORS JASPER, KOMMERS*; INSTRUCTORS BEEBE, BROWN, PERKINS, TABOR.

*On leave second semester, 1920.

For Undergraduates

1. Statics. I or II, first ten weeks; 3 cr. Prerequisite: Physics 51.

2. Dynamics. I or II, last eight weeks; 2 cr. Prerequisites: course 1, Mathematics 54.

3. Mechanics of Materials. I or II; 5 cr. Prerequisites: course 1, Mathematics 54.

51. Materials of Construction. I; 2 cr. Prerequisite: enrollment in or completion of course 3. For civil engineers.

52. Materials of Construction. II; 2 cr. Continuation of 51.

53. Materials of Construction. I or II: 2 cr. For all except civil engineers. Prerequisite: enrollment in or completion of course 3.

For Undergraduates and Graduates

106. Advanced Mechanics of Materials. II; 2 cr. Prerequisites: courses 2, 3. Mr. Maurer.

107. Advanced Technical Mechanics. I; 2 cr. Prerequisites: courses 1, 2. Mr. Maurer.

108. Advanced Materials Laboratory. I; 2 or more cr. Prerequisite: course 51 or 53. Mr. Withey.

109. Graphics. II; 2 cr. Prerequisites: courses 1, 2, 3.

MINING AND METALLURGY

Professors McCaffery, Shorey; Instructor Barker.

101. Excavation and Tunneling. I; 3 cr. Mr. Shorey.

103. Mining Methods. II; 3 cr. Mr. Shorey.

104. Valuation of Mineral Properties. II; 2 cr. Mr. Shorey.

105. Mine Engineering. I; 3 cr. Mr. Shorey.

106. Mine Plant Design. Prerequisites: 101, 103, 104, 105. Mr. Shorey.

107. Ore Dressing. I; 5 cr. Prerequisite: Geology 6. Mr. Shorey.

109. Mine and Smelter Accounts and Administration. I; 2 cr. Lectures. Mr. McCaffery.

121. Assaying. I or II; 2 or 3 cr. Prerequisite: Chemistry 2. Mr. McCaffery, Mr. Barker.

122. General Metallurgy. I; 3 cr. Prerequisite: Chemistry 2. Mr. McCaffery.

123. Fire Metallurgy of Copper, Lead and Zinc. II; 3 cr. Prerequisite: course 122. Given 1919–1920 and alternate years. Mr. McCaffery.

124. Metallurgy of Iron and Steel. I or II; 2 cr. Mr. McCaffery.

125. Metallurgy of Minor Metals. II; 2 or 3 cr. Given 1919–1920 and alternate years. Mr. McCaffery.

126. Clay Products Manufacture. I; 2 cr. Mr. Shorey.

127. Hydrometallurgy of Gold, Silver, Copper, Lead and Zinc. II; 3 cr. Prerequisite: course 122. Given 1920–1921 and alternate years. Mr. McCaffery.

128. Iron and Steel Laboratory. II; 2 cr. Mr. McCaffery.

129. Non-ferrous Laboratory. II; 3 cr. Mr. McCaffery.

131. Foundry Metallurgy. II; 2 cr. Mr. McCaffery.

150. Economic Aspects of Mining. II; 3 cr. For students in economics and commerce, of not lower than junior standing. Mr. McCaffery.

For Graduates

210. Ore Dressing Laboratory. I or II; 2 or more cr. Mr. McCaffery.

225. Metallurgical Laboratory. I or II; 2 or more cr. Mr. McCaffery.

RAILWAY ENGINEERING

ASSOCIATE PROFESSOR VAN HAGAN.

1. Railway Curves. I or II; 2 cr. Prerequisites: trigonometry elementary surveying. Mr. Van Hagan.

2. Theory of Railway Location and Construction. I; 3 cr. Prerequisite: course 1. Mr. Van Hagan.

22. Practice in Railway Location and Construction. Summer survey of two weeks. Prerequisites: Course 2 and Topographic Engineering 106. Mr. Van Hagan.

For Undergraduates and Graduates

103. Maintenance of Way and Structures. II; 2 cr. Prerequisites: Courses 2, 22. Mr. Van Hagan.

104. Railway Engineering. I; 2 cr. For electrical and mining engineers. Prerequisite: trigonometry, elementary surveying. Mr. Van Hagan.

105. Economics of Railway Engineering. I; 2 cr. Prerequisites: Courses 2, 22. Mr. Van Hagan.

107. Advanced Railway Design. I or II; 2 cr. Open to seniors and graduates. Mr. Van Hagan.

108. Railway Signaling. II; 2 cr. Mr. Van Hagan.

110. Masonry Construction. II; 2 cr. Prerequisites: Mechanics 3, 51. Mr. Van Hagan.

111. Substructures. II; 1 cr. Prerequisite: Course 110. Mr. Van Hagan.

112. Estimates and Valuations. II; 2 cr. For seniors and graduate students. Mr. Van Hagan.

ROADS AND PAVEMENTS

PROFESSOR SMITH.

For Undergraduates and Graduates

As a preparation for the special courses in roads and pavements civil engineers are advised to take a course in general and economic geology with as much field work as possible.

101. Country Roads. II; 1 cr. Designed especially for students desiring a short course in agriculture. Mr. Smith.

102. Introduction to Construction and Maintenance. I or II; 2 cr. Mr. Smith.

103. Advanced Design and Economics. II; 3 cr. Prerequisite: Course 102. Mr. Smith.

104. Testing Road Materials. II; 3 cr. Includes the instruction given in the course on Analysis of Bitumens for Highways (Chemical Engineering 121). Mr. Smith. For course in highway bridges see Structural Engineering 112.

SHOP WORK

ASSISTANT PROFESSOR GODDARD*, ASSISTANT PROFESSOR DABNEY (ACTING SUPT.); INSTRUCTORS BRECKEY, GOUDE, HITCHCOCK, PAYTON, SCHUMANN; ASSISTANT PETERS.

1. Elementary Pattern Making. I or II; 1 cr. Mr. Payton.

2. Bench Work in Iron and Steel. I or II; ½ cr. Mr. Dabney, Mr. Breckey, Mr. Peters.

3. Elementary Forge Work. I or II; ½ cr. Mr. Schumann, Mr. Peters.

*On leave of absence.

4. Lathe Work in Metals. I or II; 1 cr. Mr. Breckey, Mr. Hitchcock.

5. Planing and Milling. I or II; 1 cr. Mr. Breckey, Mr. Hitchcock.

6. Tool Making. I or II; 2 cr. Prerequisites: Courses 4, 5. Mr. Breckey, Mr. Hitchcock.

7. General Shop Work. I or II; 2 cr. Prerequisites: Courses 4, 5. Mr. Breckey, Mr. Hitchcock.

8. Heat Treatment of Steel. II; 1 cr. Prerequisite: Course 3. Regularly for seniors only. Mr. Dabney, Mr. Schumann.

9. Advanced Pattern Making and Foundry Practice. II; 1 cr. Prerequisite: Course 1. Regularly for seniors only. Mr. Payton, Mr. Goude.

10. Industrial Practice. 4 cr. Not less than seven weeks of work, done outside the University, preferably under a well-developed system of methods and discipline. In exceptional cases credit may be secured by four weeks of vacation work in the University Shops.

12. Manufacturing Methods. I; 1 cr. Administration of Course 7. Regularly for seniors only. Mr. Dabney, Mr. Hitchcock.

13. Elementary Foundry Practice. I or II; 1 cr. Mr. Payton, Mr. Goude.

STEAM AND GAS ENGINEERING

Associate Professor Larson; Assistant Professors Berggren, Frary; Instructors Spieth, Millar, Horner.

For Undergraduates

1. Thermodynamics. I; 4 cr. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Berggren.

2. Thermodynamics. II; 4 cr. Mr. Berggren.

3. Thermodynamics. I; 3 cr. For electrical, chemical, and mining engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Frary, Mr. Spieth, Mr. Millar.

4. Thermodynamics. II; 3 cr. Continuation of 3. Mr. Frary, Mr. Spieth, Mr. Millar.

7. Survey of Steam Engineering. II; 2 cr. For civil engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Larson.

Laboratory Courses

MR. BERGGREN AND LABORATORY INSTRUCTORS.

22. Elementary Testing. II; 2 cr.

23. Advanced Testing. I; 2 cr. Continuation of 22.

25. Elementary Testing. II; 2 cr. For chemical engineers.

26. Advanced Testing. I; 1 cr. Continuation of 25. For chemical engineers.

28. Elementary Testing. II; 2 cr. For electrical engineers.

29. Advanced Testing. I; 2 cr. Continuation of 28.

30. Gas Engine Testing. I or II; 2 cr. Open only to seniors in the College of Engineering.

For Undergraduates and Graduates

105. Steam and Gas Engine Calculations. I; 2 cr. Prerequisites: Courses 1, 2 or 3, 4. Mr. Larson.

106. Continuation of Course 105. II; 2 cr. This course can be taken without having had course 105, but the same courses are prerequisite. Mr. Larson.

108. Heating, Ventilating, and Refrigerating. I; 3 cr. Prerequisites: Courses 1, 2 or 3, 4 or 7. Mr. Larson.

111. Compressed Air. II; 2 cr. Prerequisites: Courses 1, 2 or 3, 4 or 7. Mr. Berggren.

Laboratory Courses

MR. BERGGREN AND LABORATORY INSTRUCTORS.

124. Advanced Commercial Testing. II; 1 cr.

127. Short Course in Testing. I; 2 cr.

130. Research. Yr.; credit according to work done. Open to graduates and others by consultation.

Vocational Course in Auto Mechanics

The course which was organized and developed for training auto mechanics for the United States Army is being continued as a civilian vocational course. The work is laid out with the idea of giving the necessary information and practice in the operation and maintenance of modern automobiles. The vocational section of this work is open to all persons (not regular university students) over eighteen years of age who have completed the grammar school work.

Further information may be had on request to Professor G. L. Larson, College of Engineering.

A special abbreviated course in auto mechanics is open for election to all university students except freshmen.

STRUCTURAL ENGINEERING

PROFESSOR TURNEAURE; ASSOCIATE PROFESSOR KINNE.

For Undergraduates

2. Stresses in Simple Structures. II; 4 cr. Prerequisite: Mechanics 1. Mr. Kinne.

3. Design of Roof Trusses and Plate Girders. I; 3 cr. Prerequisites: Course 2: Mechanics 3. Mr. Kinne.

4. Design of Railway Bridge Trusses. II; 2 cr. Prerequisites: Courses 2, 3. Mr. Kinne.

10. Structural Design. II; 2 cr. For mechanical, electrical, and mining engineers. Prerequisites: Mechanics 1, 3. Mr. Kinne.

For Undergraduates and Graduates

105. Principles of Reinforced Concrete. I; 3 cr. Prerequisites: Mechanics 1, 3. Mr. Turneaure, Mr. Kinne.

106. Concrete Arches. I; 2 cr. Prerequisites: Mechanics 1, 3. Mr. Kinne.

107. Statically Indeterminate Structures. I; 2 cr. Open to seniors and graduates in civil engineering. Prerequisite: Course 2. Mr. Kinne.

108. Statically Indeterminate Structures and Secondary Stresses. II; 2 cr. Prerequisites: Courses 2, 107. Mr. Turneaure.

109. Design of Swing Bridges. II; 2 cr. Prerequisites; Courses 2, 3, 4, 107. Mr. Kinne.

111. Principles of Reinforced Concrete. II; 2 cr. Continuation of 105. Mr. Turneaure, Mr. Kinne.

112. Highway Bridges and Culverts. II; 2 cr. Prerequisites: Courses 2, 3, 4, 105. Mr. Kinne.

TOPOGRAPHIC AND GEODETIC ENGINEERING

PROFESSOR SMITH; ASSISTANT PROFESSOR OWEN; INSTRUCTOR BEEBE.

For Undergraduates

1. Elementary Surveying. I; 2 cr.

2. Elementary Surveying. II; 2 cr. Continuation of 1.

3. Land Surveying. I; 3 cr.

For Undergraduates and Graduates

104. Advanced Land Surveying. II; 3 cr. Continuation of 3.

105. Elementary Geodesy. II; 2 or 3 cr. Mr. Smith.

106. Summer School of Surveying. Field work illustrating courses 104 and 105. Four weeks from Friday of examination week, second semester. Prerequisites: courses 3, 104. Mr. Smith.

107. Advanced Geodesy. I; 2 cr. Continuation of 105.

108. Short Course in Surveying. I or II; 3 cr. For mechanical and electrical engineers.

109. Rapid Topography. II; 2 cr. Adapted for training topographers for the Geological Survey. Mr. Owen.

110. Mining Surveying. I or II; 2 cr. Mr. Owen.

THE COLLEGE OF AGRICULTURE

H. L. RUSSELL, DEAN.

General Information

The College of Agriculture is one of the general divisions of the University. Instruction in the general sciences, languages, and mathematics is given to agricultural and home economics students in other colleges of the University; but for the purely agricultural and home economics subjects, separate buildings, equipment, and staff of instructors are maintained. Students enter the University with the same standing as students of other colleges and have the advantages incident to a large university, such as the general laboratories, libraries, and student organizations. Aside from the purely instructional work of the College the facilities for research afford special opportunities for both regular and advanced students to secure a knowledge of the best methods in agriculture and home economics.

Buildings

The buildings occupied by the College of Agriculture are located at the west end of Observatory Hill. They have been erected and equipped with particular attention to the special needs of the work in the various departments.

The administration offices of the College and Experiment Station, Agricultural Extension, Farmers' Institutes, lecture rooms, laboratories, and offices for several of the departments are located in Agricultural Hall. At the rear of the main building is a large wing which furnishes quarters for the library and reading room in the basement. The second and third floors are occupied by an auditorium with a seating capacity of 750, which is used for general assemblies and class work.

West of the main building is a group comprised of Hiram Smith Hall, the Dairy Laboratory, and the Dairy Machinery Laboratory.

The Soils Building, with greenhouses adjoining, provides lecture rooms and laboratories for the instructional and research work of the department, as well as offices for the State Soil Survey.

The Horticulture and Plant Pathology Departments are located in the Horticultural Building, which, with the adjoining greenhouses, is provided with every modern equipment for instruction and research in these subjects.

The Agronomy Building contains the offices of the department, a large grain judging room, laboratories for seed testing and inspection, grain curing, cleaning and storage of seed grains.

The Agricultural Engineering Building provides offices, lecture and drafting rooms, power and farm machinery laboratories, also a laboratory for smaller farm tools and implements and a concrete construction laboratory.

The Departments of Agricultural Chemistry and Genetics; and offices for the Poultry Department are located in the Agricultural Chemistry Building. It contains large laboratories, an assembly room with seating capacity of 400, in addition to special laboratories for advanced students and the chemistry laboratories of the Experiment Station, including those of the Feed and Fertilizer inspection service.

The Department of Home Economics is located in the Home Economics Building, where offices, classrooms, and laboratories are provided, and in the practice cottage where the work in household management, house decoration, and dietetics has ample scope for practical solution. The department is provided with all the necessary furnishings and apparatus to give thorough instruction in the subjects of house and institutional management and sanitation, art and design, food preparation, dietetics, textiles, sewing, dressmaking, and house decoration.

The Live Stock Pavilion provides a large arena, which is used for stock judging work and exhibition purposes. The pavilion has seating arrangements for 2,500 people. Beneath the amphitheatre seats there are stalls for the housing of the horses belonging to the University Farm. In addition to this there are offices, operating room, and dispensary.

The Poultry Building provides offices and classrooms. Pens of all of the important breeds are provided and practical instruction is given in all lines of poultry raising. A separate research poultry plant is maintained on an outlying portion of the University Farm. The Economic Entomology Department has a building by itself. Beekeeping, including special work in queen rearing, has been added recently to this department.

The University Farm buildings include barns for the horses, cattle, sheep, and swine as well as two large stock judging rooms. Other

buildings are provided for storing farm machinery, silage, manure, and tobacco.

A group of buildings devoted exclusively to the manufacture of hog cholera serum has been erected within the last few years on one portion of the University Farm. The Legislature of 1915 provided for the erection of a serum laboratory which has been constructed of concrete and steel and provides excellent facilities for the production of hog cholera serum.

Farm Lands

The College of Agriculture is provided with three farms, the University Farm, the Hill Farm, and the Eagle Heights Farm, including about 746 acres of tillable land. These farms are operated to facilitate both instruction and research in agriculture.

Live Stock

The university herds and flocks represent the principal breeds of dairy and beef cattle, draft horses, swine, sheep, and poultry, including many individuals that are well-known prize winners.

Library

The Agricultural College Library includes about 18,000 bound volumes and 15,800 pamphlets relating to agriculture and home economics. This library is a part of the general University Library, but is kept in special quarters in Agricultural Hall so as to be readily available to students in this College. It is especially strong in the files of scientific agricultural journals, both American and foreign, and the record books of pure bred animals. A trained librarian is in attendance to assist students.

Organizations

Several societies, maintained by the agricultural students, meet weekly to discuss questions related to their special interests. These organizations are for drill in parliamentary practice, training in debate, as well as for the discussion of scientific and practical questions. The Agricultural Literary Society discusses general questions in agriculture. The Euthenics Club is an organization of students in Home Economics to promote intellectual and social intercourse and stimulate greater interest in vital problems of the day.

The Agricultural College Federation (A. C. F.) is an organization of all students of the College to foster college activities and promote the general welfare of the Agricultural College.

An Agricultural Experiment Association with a paid membership of about 1,500 is maintained by students of the College of Agriculture, both past and present, for the purpose of cooperating with the College and Experiment Station in advancing the agriculture of the commonwealth. By means of this organization, the members of which are located in all sections of the state, the College is in close touch with the great body of Wisconsin farmers.

A chapter of the national honorary agricultural fraternity, Alpha Zeta, and a chapter of the national honorary home economics sorority, Omicron Nu, are maintained by faculty and student members. The students publish a monthly magazine, *The Country Magazine*, under the direction of the department of Agricultural Journalism. Inter-mural athletics are emphasized and the Nelson trophy for the winning college has been awarded several times to the Agricultural College.

Special Facilities for Study

In the various departments of the College of Agriculture special lines of research are continually in progress, affording properly qualified students excellent opportunities to secure training of special character.

Farm Experience

Before graduating from the Four-year Course in Agriculture a student must have had at least six months of actual farm experience satisfactory to the executive office of the College of Agriculture.

Before a Middle Course student in Agriculture can begin the second year of his work he must have had at least one year of practical farm experience satisfactory to the executive office of the College of Agriculture.

The College of Agriculture maintains an employment bureau to aid students in securing positions on farms where they may gain the required farm experience.

Plan of the College Activities

The work of the College of Agriculture is conducted on a threefold basis. Each department aims:

First, to develop science through investigation and experiment.

Second, to give instruction to students at the University.

Third, to disseminate information among the farmers and farm women of the state by means of publications, farmers' courses, institutes, and the agricultural extension service.

Fees and Expenses

See pp. 62ff.

Courses of Instruction

The following courses have been arranged to meet the needs of students of various classes.

Graduate Courses offer to advanced students opportunities for professional training and original investigation, made possible through an active Experiment Station, associated with numerous scientific laboratories. The special lines of study will be left largely to the selection of the student. Students may participate in experiments in progress, and after suitable experience, conduct independent investigations. When contributions to knowledge of permanent value are made they may be published through the bulletins with proper credit to the contributor.

Long Courses in Agriculture or Home Economics. These four-year courses embrace general training in chemistry, physics, biology, bacteriology, and other branches which have applications in agriculture or home economics. The fields are so broad, however, that it is impossible for the student to pursue in four years all the technical courses offered in addition to acquiring the necessary fundamental studies, and hence much liberty of election is allowed.

Middle Course in Agriculture consists of two full college years and is planned especially for those who wish greater specialization in agriculture with less of general scientific training. The first year embraces essentially the work of the first year of the Long Course, with the exception of mathematics and Botany 1. In the second year the time is devoted very largely to elective work. Before a student may enter his second year of this course he must have had at least one full year of practical farm experience.

Two Year Course for Training Vocational Teachers in Homemaking. Under the Federal Smith-Hughes Law the University is offering in addition to a four year course, this course to equip mature teachers for vocational schools.

Pre-Veterinary Course. At the request of the State Board of Education, primarily to meet the needs of students entitled to aid under the terms of the Educational Bonus Act, there has been offered during the present year at the University a course of study

for students who desire to prepare for veterinary medicine. The course will, however, be discontinued July 30, 1920.

Course for the Training of Teachers. Graduates of the Courses in Agriculture or Home Economics, fulfilling the special educational professional requirements will be entitled to receive a license to teach agriculture, home economics, or the vocation of home making. (See pp. 245 and 247ff. of this catalogue; also the Long and Middle Course Circular and Home Economics Circular.)

Summer Session Courses include work in agricultural bacteriology, agricultural chemistry, agricultural economics, agricultural education, agricultural engineering, agronomy, animal husbandry, dairying, economic entomology and plant pathology, farm management, course in art and design, costume design, dressmaking, dietetics, education, house architecture, house decoration, food study, horticulture, poultry husbandry, soils and home economics.

Short Course for two winter terms of fifteen weeks each is provided for those who can devote only a limited time to study, and who, therefore, desire the greatest amount of directly useful knowledge that can be acquired in the brief time allowed. This course begins about November 15, and closes in March. An illustrated circular describing this course may be had on request to Prof. J. A. James, College of Agriculture, Madison, Wis.

Winter Dairy Course. This course is open to persons who have had at least six months' experience in a creamery or cheese factory and covers one term of twelve weeks, beginning about November 1. The course is designed to train creamery butter makers and factory cheese makers in the science and practice of their respective lines. Certificates are given to those who satisfactorily complete the full course and have worked in a creamery or cheese factory for two seasons of not less than seven months each, one before and the other after the period spent in the Dairy Course. An illustrated circular describing this course in detail will be sent upon application to Prof. E. H. Farrington, College of Agriculture, Madison, Wis.

Summer Dairy Course. This course is intended for beginners or those having little practical knowledge of creamery or dairy work. Students are admitted at any time during the spring and summer after March 1. They are expected to remain at least ten weeks, although they may continue the work longer, if desirable. Laboratory exercises and theoretical instruction are given as required.

Extension Courses Given at the University

Farmers' Week. This is a popular course of addresses, demonstrations, and exercises, covering a period of ten days, designed to give busy farmers the most useful instruction and practice in the science of agriculture in the shortest possible time at a season when they can be away from home for a brief period. This course, early in February, 1921, is given by the staff of the College of Agriculture, assisted by other speakers. Programs may be had upon application to Prof. K. L. Hatch, College of Agriculture, Madison, Wis.

Women's Week in Home Economics. This course for two weeks is designed to give women practical and helpful instruction in the various phases of home economics. The plan of instruction includes lectures, demonstrations, and laboratory work in all phases of home management. The course is held at the same time as the Farmers' Course to afford an opportunity for farmers' wives and daughters to attend. Detailed information will be furnished upon request to Prof. Abby L. Marlatt, Madison, Wis.

Special Dairy Course. This is a week's course of lectures, conferences, and demonstrations, designed to meet the needs of creamery and cheese factory operators and managers, and to give them advanced instruction in connection with problems of management of their establishments as well as to inform them on recent advances in the science of dairying. The course is held at the time of the Farmers' Course. A special course for Cow Testing Association men is held at the same time. Detailed programs may be secured upon application to Prof. E. H. Farrington, College of Agriculture, Madison, Wis.

Young People's Week. A week's course of lectures, demonstrations and exercises which are of interest to farm boys and girls. Those who have won scholarships in Boys' and Girls' Club Work, pursue this course. Each day, special classes for the girls in attendance will be held at the Department of Home Economics. For further information address Prof. T. L. Bewick, College of Agriculture, Madison, Wis.

Terms of Admission

See pp. 88.

Fellowships and Scholarships

See Index.

A. J. Horlick Scholarship

See p. 72.

Omicron Nu Scholarship

See p. 359.

Loan Fund

See p. 74.

Degrees

The degree of Bachelor of Science (Agriculture) is conferred upon students who successfully complete the Long Course in Agriculture.

The degree of Bachelor of Science (Home Economics) is conferred upon those completing the four-year Course in Home Economics.

The title of Graduate in Agriculture will be conferred upon students who complete the Middle Course in a satisfactory manner.

The title of Graduate in Home Economics will be conferred upon students who complete the two-year Vocational Teachers Course in Home Making.

The degree of Master of Science is conferred upon agricultural or home economics graduates who complete at least one year of advanced study at the University and present an acceptable thesis on a topic approved by the agricultural faculty.

Certificates

Students who complete in a satisfactory manner the Short Course or Dairy Course will be granted appropriate certificates.

Outline of the Long Course in Agriculture

In calculating the hours per week for the various studies, two hours of laboratory, field, or barn practice count as one hour of classroom work, which is the equivalent of one credit in this outline. Required subjects outside the College of Agriculture (marked L. & S.) will be found catalogued under the College of Letters and Science.

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L. & S.)	3	English 1b (L. & S.)	3
Mathematics 71 (L. & S.)	5	Botany 1 (L. & S.)	5
Chemistry 1 (L. & S.)	5	Chemistry 1 (L. & S.)	5
Agronomy 1 or Agricultural Engineering 1	2½	Agricultural Engineering 1 or Agronomy 1	2½
Animal Husbandry 1	2½	Dairy Husbandry	2½
Total	18	Total	18
Military Drill	1	Military Drill	1
Physical Education	1	Physical Education	1
*Convocation	1		

Sophomore Year

Chemistry 11Ag. (L. & S.)	2½	Agricultural Chemistry 1 & 2	5
Chemistry 20 (L. & S.)	2½	Physics 61 (L. & S.)	3
Physics 61 (L. & S.)	3	Soils 1	5
Agricultural Bacteriology 1	5	Zoology 3 (L. & S.)	3
Horticulture 1	3	Electives	2
Electives	2		
Total	18	Total	18
Military Drill	1	Military Drill	1
Physical Education	1	Physical Education	1

Junior Year

First Semester		Second Semester	
Electives	12	Physiology 3	4
		Electives	13
Total	17	Total	17

Senior Year

Major, including Thesis	5	Major, including Thesis	5
Electives	10	Electives	9
Total	15	Total	14

*Required of all freshmen.

The total requirements for graduation are 135 credits in addition to military drill and physical education. The same number of grade points (135) are also required for graduation. See p. 77.

Electives to the amount of ten credits must be taken outside the College of Agriculture, and with the approval of the adviser, students may elect as many as forty credits outside the College.

Students of the Long and Middle Courses may take sixteen to eighteen credits each semester, exclusive of drill and physical education. Electives may be added to make a total of twenty credits provided the student has received a standing of at least 85 per cent in each subject for the preceding semester.

The thesis, or a substitute approved by the adviser, must represent some phase of the student's work in his major study, four credits being given. The instructor in charge of the major subject will act as the student's adviser. For farm experience requirement see p. 295.

Outline of Middle Course in Agriculture

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L. & S.)	3	English 1b (L. & S.)	3
Chemistry 1 (L. & S.)	5	Chemistry 1 (L. & S.)	5
Agronomy 1	2½	Dairy Husbandry 1	2½
Animal Husbandry 1	2½	Agricultural Engineering 1	2½
Horticulture 1	3	Soils 3	3
Electives in College of Ag.	2	Animal Husbandry 2	2
Total	18	Total	18
Military Drill	1	Military Drill	1
Physical Education	1	Physical Education	1
*Convocation	1		

Sophomore Year

Agricultural Bacteriology 1	5	Agricultural Chemistry 1	3
Electives	11	Electives	11
Total	16	Total	16
Military Drill	1	Military Drill	1
Physical Education	1	Physical Education	1

*Required of all freshmen.

The total requirements for graduation in the Middle Course are 68 credits. Sixty-eight grade points are also required. All Middle Course students are required to take two full years of military drill and gymnasium work.

The student shall select his major subject by the beginning of the second year and shall consult the chairman of the department for assignment to an adviser. Before entering this year, a student must have had at least one year of practical farm experience satisfactory to the executive office of the College of Agriculture. (See p. 295.) A maximum of six elective credits may be taken outside the College of Agriculture.

Students taking the Middle Course and desiring to transfer to the Long Course must be prepared to spend more than the usual four years in order to complete the requirements.

Special Adaptations of Agricultural Courses for the Preparation of Teachers

Middle Course

Graduates of the Middle Course who complete Education 1, 6, 11, or 41, for two credits; the course in Agricultural Education 1, four credits; Agronomy 140 for two credits and Animal Husbandry 128, two credits, will be recommended by the Director of the School of Education to receive a special license to teach agriculture in the schools of Wisconsin. It is suggested that the student select his electives from the following groups:

First Semester Group

	Credits
Agronomy 120	3
Agricultural Engineering 2	2
Economic Entomology 101	3
Veterinary Science 3	2

Second Semester Group

	Credits
Horticulture 3	3
*Poultry	2
Soils 2	3
Veterinary Science 2	2
Agricultural Economics 10	3

Long Course

Graduates of the Long Course properly registered in the School of Education presenting credit in the following special work will be entitled to receive the University Teachers Certificate, upon recommendation of fitness by the professor of agricultural education: Philosophy 1, three credits; Education 1, 6, 11, or 41, two credits; Educational Practice A, two credits; Agricul-

*Given in first semester of first year.

tural Education 1, four credits; Agronomy 140, two credits; Animal Husbandry 128, two credits.

Veterinary Course. The work offered covers that of the first year usually offered in veterinary colleges. The Course will be discontinued June 30,1920.

Freshman Year

First Semester	Credits	Second Semester	Credits
Chemistry 2	3	Chemistry 2	3
Animal Husbandry 1	2½	Zoology 3	3
English 1	3	English 1	3
Physics, 61	3	Animal Husbandry 132	3
Vet. Science 10	5½	Vet. Science 11	6
Total	17	Total	18
Military Drill	1	Military Drill	1
Physical Education	1	Physical Education	1
Convocation	1		

OUTLINE FOR COURSES IN HOME ECONOMICS

The Department of Home Economics offers the following courses which deal with the principles which underlie the proper management of the home, care of children, hygienic and sanitary conduct of institutions, and the economic conditions affecting the work of women.

The courses are planned to meet the needs of six classes of students:

1. Those students who desire a general knowledge of the subject matter as a basis for application in the study of the general arts and sciences as a part of a liberal education;

2. Those students who desire to make a detailed study of home economics in its relation to the arts and sciences which are fundamental in the management of the home;

3. Those students who wish to teach home economics in the secondary schools and in higher institutions;

4. Graduate students who have the requisite knowledge to benefit by research in subjects connected with the home;

5. Those who wish to prepare themselves for other vocations than teaching or home-making, or for vocations which can be carried on in connection with other lines of work;

6. Those who wish to prepare themselves for teaching the vocation of home making in the vocational and continuation schools of the state. (See outline of course for Vocational Education.)

Students of the four-year courses entering with two units of foreign language must take at least 8 credits of advanced language in the University. Students entering with no foreign language will be required to take 16 credits in foreign language in the University. The 8 credits of beginning language will be counted as electives.

Women taking the Course in Home Economics are granted the same privileges of residence in Chadbourne Hall and Barnard Hall, the women's dormitories, and in the use of the women's gymnasium, etc., as other women of the University.

Required Work for Freshmen and Sophomores in all Majors

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a (L. & S.)	3	English 1b	3
Foreign Language, advanced	4	Foreign Language, advanced	4
Chemistry 1 (L. & S.)	5	Chemistry	5
Home Economics 2	3	Home Economics 3	3
Home Economics 9	1		
Total	16	Total	15

Sophomore Year

Physics 65 (L. & S.)	3	Physics 65 (L. & S.)	3
Agricultural Chemistry 3	5	Bacteriology 4	5
Physiology 1 (L. & S.)	3	Home Economics 50	3
Home Economics 5	2	Electives	3 or 4
Electives	2 or 3		
Total	15 or 16	Total	14 or 15

Majors in Home Economics

At the beginning of the junior year, the student may choose one of the majors indicated in the following paragraphs. The requirements for a major in home economics are not less than 26 credits nor more than 30 credits in strictly home economics subjects taken during the junior and senior years.

Required for Major in General Course

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 11	3	Home Economics 8	4
Home Economics 7	5	Home Economics 6	4
Home Economics 4	3	Home Economics 11	3
Electives	4	Electives	4
Total	15	Total	15

Senior Year

Home Economics 10	4	Home Economics 109	4
Thesis	2	Thesis	2
Electives to be chosen as indicated below	9	Electives to be chosen as indicated below	9
Total	15	Total	15

Electives

Opportunity is given in the junior and senior years for the election of related courses of study in various lines adapted to the requirements of the students.

The following electives are suggested (34 free electives):

A. As a part of a liberal education: Economics—elements of economics, social psychology, poverty and relief, methods of social service, statistics; **History**—medieval, United States, English, ancient, history of the West; **English**—general survey, study of literature, Shakspere; **Art**—fine arts.

B. For those preparing to become instructors of general home economics in high school or vocational school: Teachers certificate requirements: Philosophy—psychology; **Education**—public education, mental development, educational psychology, Home Economics teachers course, and Education A (directed teaching) to make a total of 10 credits.

Teaching minors which have been popular in connection with home economics majors: English—15 credits including general survey and advanced composition; **History**—16 credits in addition to teachers course; **Mathematics**—12 credits from commercial algebra, elementary mathematical analysis, mathematics for agricultural students; projective geometry (Drawing 3), teachers course; **Chemistry**—10 credits plus the teachers course; **Physics**—10 credits plus the teachers course; **Botany**—10 credits plus the teachers course; **Physiology**—11 credits, including physiology, bacteriology, hygiene.

C. For those desiring to be welfare workers, visiting housekeepers, social settlement workers: Economics minor—elements of economics, and two courses from each of the following groups to make a total of 15

credits; social problems, social psychology, general sociology, Americanization; social origins, poverty and relief, methods of social service, criminology and penology.

D. For those preparing to become home demonstration agents; Minor in Agriculture; Public Speaking—extempore speaking; **Agricultural Journalism**—elementary and advanced.

If the student elects the food major the following outline will be followed:

Required for Major in Food and Nutrition

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6	4
Home Economics 7	4	Electives, in any college	11
Electives, in any college	8		
Total	15	Total	15

Senior Year

Home Economics 10	4	Home Economics 109	4
Home Economics 125	3	Thesis	2
Home Economics 122	4	Electives, in any college	9
or	4		
Home Economics 101	2		
Home Economics 102	2		
Thesis	2		
Electives, in any college	2		
Total	15	Total	15

Group Electives (in addition to requirements of food major).

A. Instructor in college or in high school: See requirements for teachers certificate, page 247.

B. Dietitian in hospital or in public or private clinic: Chemistry—quantitative analysis, organic chemistry; **Economics**—elements of economics. social psychology, poverty and relief; **Psychology**—course 1 and experimental psychology for premedical students; **Physiology**—physiological chemistry; **Medicine**—histology and organology, advanced clinical laboratory work.

C. Hospital administration: Those taking a food major may elect courses in physiological chemistry, pharmacology, anatomy, clinical medicine and hospital practice which will equip them to meet the requirements for the bachelor of science degree and part of the requirements for the registered nurse certificate. The hospital practice work will be taken in connection with the Bradley Memorial Hospital, the University Infirmary and local and state hospitals. To fulfill the requirement for a registered nurse each student must take one graduate year in residence in an approved hospital. Suggested electives are botany, zoology, organic chemistry, quantitative chemistry, embryology, history, English literature, psychology,

economics. (Elementary Latin equivalent to two years in high school should have been taken before beginning this course. A reading knowledge of French is desirable.)

D. Institution economics: Economics—elements of economics, elements of accounting, theory and practice of accounting, cost accounting; social psychology, poverty and relief.

E. Assistant food chemist (in board of health or commercial laboratory): **Chemistry**—quantitative analysis, organic chemistry, water analysis, chemistry of foods and their adulterations; **Bacteriology**—bacteriological technique, food bacteriology.

F. Research in nutrition: college, sanitarium, or food manufacturing company: Chemistry—quantitative analysis, organic chemistry; **Zoology**—microscopic anatomy and micro-technique; **Anatomy**—histology and organology; **Clinical Medicine**—advanced clinical laboratory work; **Physiology**—physiological chemistry; **Home Economics**—research, topical work.

G. Applied bacteriology Students who minor in food may include beyond their sophomore year such detailed work in applied bacteriology as will equip them to become bacteriological technicians in the various laboratories maintained in connection with municipal water and sewerage plants, with manufactories of biological products, with milk plants, as well as with public health laboratories, hospital laboratories, private laboratories in physicians' offices, and in laboratories in connection with public and private sanatoria. There is a constantly growing demand for such technicians, and many of the home economics graduates have found the work both attractive and stimulating. In addition to the required work as indicated in the outline for junior and senior years, on the advice of the major professor, appropriate electives may be taken in zoology, botany, plant pathology or chemistry.

Applied Bacteriology Major

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6	3
Home Economics 7	4 or 5	Zoology 11	3
Agricultural Bacteriology*	3	Agricultural Bacteriology*	4
Electives†	6 or 5	Electives†	5
Total	16	Total	15

*Two of the following courses are required: dairy bacteriology, bacteriology technique, food bacteriology, medical bacteriology. A total of twenty-five credits in bacteriology is required for the major.

†Suggested electives are: **Home Economics**—advanced dietetics; **Agricultural Bacteriology**—research, seminary; **Zoology**—comparative anatomy of vertebrates; **Botany**—plant physiology; **Plant Pathology**—diseases of plants, methods in plant pathology; **Economics**—elements of economics, poverty and relief.

Senior Year

First Semester	Credits	Second Semester	Credits
Home Economics 10	3	Home Economics 109	4
Chemistry 113	1	Electives	9
Thesis	2	Thesis	2
Electives†	9		
Total	15	Total	15

Required for Major in Textiles

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 7	4	Home Economics 8	4
Home Economics 11	3	Home Economics 11	3
Electives, in any college	8	Electives, in any college	8
Total	15	Total	15

Senior Year

Home Economics 10	4	Home Economics 109	4
Home Economics 20	3	Home Economics 20	3
Thesis	2	Thesis	2
Electives, in any college	6	Electives, in any college	6
Total	15	Total	15

Group electives (34 free electives):

A. Instructor in high or vocational schools: Philosophy—psychology; **Education**—mental development or educational psychology, public education, technique of instruction; **Home Economics**—teachers course in home economics, Education A (directed teaching) to make 10 credits; **Public Speaking**—extempore speaking; **Economics**—elements of economics, social psychology, poverty and relief; **History**—history of the United States, medieval, English; **Chemistry**—quantitative analysis, organic chemistry.

B. Textile expert in retail store or manufacturing establishment: Chemistry—quantitative analysis; organic chemistry; **Economics**—elements of economics, statistics, sales administration*, factory and office administration*, social psychology; **Home Economics**—art and design, house decoration; **Philosophy**—principles of advertising; **Public Speaking**—extempore speaking.

C. Costume designer: Economics—elements of economics; **History**—medieval, English, ancient; **Fine Arts; Manual Arts**—freehand drawing and perspective, applied design in metal.

D. Interior decorator: Economics—elements of economics; **History**—medieval, English, ancient; **Fine Arts; Manual Arts**—elements of mechanical drawing, elementary bench woodwork, furniture and cabinet design and construction, freehand drawing and perspective.

† See note on page 307.

* Must be taken in excess of 120 credits for graduation.

Vocational Education Major in Home Making (Smith-Hughes). In compliance with the request of the State Board of Vocational Education and in cooperation with the Federal Board under the Smith-Hughes bill, the University is offering a four year course designed to equip teachers of home making in the vocational schools of the state. The first two years of this course are similar to those required of all the other majors in home economics; the only exception is that students who know before their junior year that they expect to major in vocational education in home making would find it wise to elect the beginning courses in psychology some time during the sophomore year. During the junior and senior years such students will take the required courses in which, because of the need for more detailed technical training, the electives are fewer in number than in either the general major, food major or textile major. The required courses in psychology and education are those designed to meet the requirements of the university teachers certificate in home economics. The very liberal grant of the government makes it possible in connection with the state vocational grant to develop training in home making in city, town, and country schools. The need for the college trained woman is imperative. In addition to the four year course the candidate for the teachers certificate in vocational education is expected to have practical experience in house management.

Study of standards is provided in connection with the practice cottage which is a laboratory in connection with the Home Economics Department. Home experience is essential.

The following outline is the work of the junior and senior years in the Vocational Education Major:

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 11	3	Home Economics 11	3
Home Economics 7	4	Home Economics 6	4
Home Economics 74	2	Home Economics, elective*	2
Home Economics 4	3	Education	3
Electives	3	Electives	3
Total	15	Total	15

*Choose clothing for children, care and feeding of children, or hand and machine sewing for teachers.

Senior Year

First Semester	Credits	Second Semester	Credits
Home Economics 10	4	Home Economics 109	4
Home Economics 97	2 or 4	Home Economics 96	2
Home Economics 125	3	Education A	2
Thesis	2	Home Economics 124	2
Electives†	4	Thesis	2
		Electives†	3
Total	15	Total	15

Two Year Course for Training Vocational Teachers in Home-Making

In addition to the four year course the University is offering temporarily a two year course designed to equip teachers in the vocational schools of the state, the requirements for which are at present a general education including graduation from an accredited high school, two years practical experience including a reasonable period of supervised home making, and a satisfactory completion of at least an approved two year teacher training course.

Students are admitted to this course on the same basis as are students in the other courses in the University; namely, graduation from a high school course. Students entering this course and deciding later to transfer to the four-year course in Home Economics can secure credit on the same basis as students from other two year normal and junior college courses, as 58 of the 68 credits listed are applicable toward the 120 credits required for the degree of Bachelor of Science in Home Economics.

The title of Graduate in Home Economics will be conferred upon students who complete this Vocational Teachers' Course in a satisfactory manner.

On completion of the course, and on recommendation of fitness by the Department of Home Economics, a graduate will be certificated to the State Board of Vocational Education, who on approval of the student's record will issue a certificate as instructor in Vocational Courses in Home Making.

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†Suggested electives: **Economics**—elements of economics, sociology, poverty and relief, methods of social service; **Political Science**—municipal government, government and politics in the United States; **English**—general survey, or study of literature; **History**—medieval, United States, English, ancient.

OUTLINE OF THE TWO YEAR COURSE

First Year

General Major

First Semester	Credits	Second Semester	Credits
General Chemistry	5	**Home Economics 48	3
Physics 65	3	Physics 65	3
English 1a	3	English 1b	3
Home Economics 5	2	Home Economics 2	3
Home Economics 40	4	Home Economics 31a	3
		Home Economics 98	2
Total	17	Total	17

Second Year

Physiology 1	3	Household Bact. 4	4
Psychology 1	3	**Home Economics 43	2
*Home Economics 35	2	Home Economics 96	2
*Home Economics 42	1	Home Economics 1b	3
*Home Economics 46	2	*Home Economics 124	2
*Home Economics 31b	3–2	Education A	2
Home Economics 1a	3–4	Home Economics 109	1
		Home Economics 72	1
Total	17	Total	17

Minors in Home Economics

A minor in Home Economics is not less than 15 nor more than 20 credits in home economics subjects. The minor is intended for those majoring in Letters and Science and desiring a more intensive and also a broader view of home economics problems. A minor may be taken in foods, textiles, or housing problems.

(1) The minor in foods must include Home Economics 1, 3, 4, and other related courses to make 15 to 20 credits.

(2) The minor in textiles must include Home Economics 2, 5, 11, and other related courses to make 15 to 20 credits.

(3) The minor in housing problems is intended to be taken with a major or minor in sociology so that those intending to do the work of sanitary inspector or other social settlement work will have a broad foundation knowledge of the fundamental problems in housing conditions. This minor includes Home Economics 1a, 1b, 70, 74, 123.

*Courses that do not apply toward the 120 credits required for the degree of Bachelor of Science in Home Economics.

**Open only to those students enrolled in the Course for the Training of Vocational Teachers. (Federal Ruling.)

Educational Requirements for State Teachers Certificate

Major—In the general major, the food major, the textile major, or the vocational major the minimum requirements in home economics subjects taken during the junior and senior year are twenty-six, four of which represent thesis credit. The special courses vary with the major, but not more than forty strictly home economics credits may be counted toward the 120 required for graduation. During the sophomore year three credits in Philosophy 1 should be taken, and during the junior and senior years seven credits in education should be taken. Of these, two credits may be in the departmental teachers courses; the others in approved courses in education including Education A. A minimum of 10 credits of professional work, including one course in psychology, is required for the University Certificate in Home Economics.

Minors—A minimum of fifteen to twenty credits. A minor may be taken in foods, textiles, or housing problems.

(1) A teaching minor in food must include the teachers course in addition to Home Economics 1a, 3, 4, and such other related courses as to make fifteen to twenty credits in strictly home economics subjects.

(2) A teaching minor in textiles must include the teachers course, Home Economics 2, 5, 50, 11, and other courses in home economics to complete twenty credits. A non-teaching minor may include the teachers course.

Departmental Teachers Course

Home Economics 121. The teaching of home economics in high schools. Prerequisite: a major or minor in home economics. 2 cr. Miss Arbogast, Miss Dodge.

Home Economics 124. Vocational education. History and methods. 2 cr. Miss Marlatt.

Thesis

All candidates for a degree from the University are required to present a graduating thesis or to take a thesis course which must be acceptable to the professor at the head of the department. These must represent original work upon some subject which has been arranged after consultation with the student's adviser and the head of the department in which the work is done.

DEPARTMENTS OF INSTRUCTION

LONG AND MIDDLE COURSES IN AGRICULTURE AND COURSE IN HOME ECONOMICS

Abbreviations in the announcement of courses; Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

AGRICULTURAL BACTERIOLOGY

PROFESSORS FRED, FROST, HASTINGS (CHAIRMAN); ASSISTANT PROFESSOR WRIGHT; INSTRUCTORS BACHMANN, FRAZIER; ASSISTANTS ANDERSON, BRYAN, HANER, WELLES.

The courses are planned to meet the needs (1) of students who desire to obtain an idea of the general relations of micro-organisms to natural processes; (2) of students intending to devote themselves to the study of dairy husbandry, soils, veterinary medicine, or foods; (3) of students wishing to prepare themselves for instructional or research work in general or applied bacteriology.

For Undergraduates

1. General Survey. I; 5 cr. Mr. Hastings.

2. General Survey. II; 3 cr. For students in the chemical course. Mr. Wright.

4. General Survey. II; 5 cr. For students in home economics. Mr. Frost, Miss Bachmann.

Thesis. Yr.; 2 cr. Prerequisites: courses 1 or 4 and 124 and either 121, 123, or 125. Mr. Fred, Mr. Frost, Mr. Hastings.

For Undergraduates and Graduates

121. Dairy Bacteriology. II; 3 cr. Prerequisite: course 1, 2 or 4. Mr. Hastings.

123. Soil Bacteriology. I; 4 cr. Prerequisite: course 1, 2 or 4. Mr. Fred.

124. Technique. II; 3 cr. Prerequisite: course 1, 2 or 4. Mr. Wright.

125. Food Bacteriology. I; 3 cr. Prerequisite: course 1, 2 or 4. Miss Bachmann.

For Graduates

230. Research. Yr.; 2 or more cr. Prerequisites: course 1, 2 or 4, 124, and either 121, 123, or 125.

231. Seminary. Yr.; 1 cr.

AGRICULTURAL CHEMISTRY

Emeritus Professor Babcock; Professor Hart (chairman); Associate Professors Peterson, Steenbock, Tottingham; Assistant Professor Boutwell; Instructors, Gross, Sommer; Assistants Ellis, Lepkovsky, Sell, Sure.

Fellow, Mr. Koehler,

Scholar, Mr. Nelson.

The courses offered in this department are intended to give a broad view of farm chemistry useful to the general agricultural student, and to develop men fitted for instructional or experimental work in the various fields of chemical activity applied to agriculture. Courses 1 and 2 must precede all other courses in the department. Courses 120 to 122 are for students desiring a more detailed knowledge of the special subjects treated and are preliminary to greater specialization. These courses should be preceded or accompanied by work in biology and organic chemistry. Physiology is a desired prerequisite. All other advanced courses in this department are open to undergraduates and graduates who have had the necessary preliminary training.

For Undergraduates

1. Agricultural Chemistry. II; 3 cr. Mr. Hart.

2. Agricultural Analysis. II: 2 cr. Mr. Tottingham.

3. Household Chemistry. I; 5 cr. Mr. Peterson, Mr. Sommer.

Thesis. Yr.; 2 cr. May be taken in plant, animal or dairy chemistry. Mr. Hart, Mr. Peterson, Mr. Steenbock, Mr. Tottingham, Mr. Boutwell.

For Undergraduates and Graduates

120. Plant Chemistry. II; 2 or 5 cr. Mr. Tottingham.

121. Dairy Chemistry. I; 2 or 5 cr. Mr. Hart, Mr. Sommer.

122. Animal Chemistry. I; 2 or 5 cr. Mr. Steenbock, Mr. Boutwell.

123. Advanced Household Chemistry. II; 3 cr. Mr. Peterson.

124. Advanced Bio-Chemistry. I or II: cr. to be arranged. Mr. Hart, Mr. Steenbock.

125. Sugar Beet Analysis. I; 2 cr. Mr. Boutwell.

126. Chemistry of Fungicides and Insecticides. I; cr. to be arranged. A course designed for students in plant pathology, horticulture, and entomology. Mr. Steenbock.

For Graduates

230. Plant Nutrition. Yr.; hours to be arranged. Mr. Tottingham.

231. Animal Nutrition. Hours to be arranged. Mr. Hart, Mr. Steenbock.

232. Advanced Dairy Chemistry. Yr.; hours to be arranged. Mr. Hart.

233. Seminary. Yr.; 1 hr. Mr. Hart, Mr. Steenbock.

AGRICULTURAL ECONOMICS

Professor Hibbard (chairman); Associate Professor Macklin; Instructors Mendum, Brown; Assistants Wehrwein, Englund; Lecturer, Mr. Riley.

Scholar, Mr. Killough.

The courses in agricultural economics are intended to give the student a knowledge of the economic principles which relate to the production and marketing of farm products, and to the economic condition of the agricultural classes.

Students who wish to prepare themselves for practical work as farm managers and as citizens interested in agriculture will find courses 1, 8, 10, 12, and 128 adapted to their needs.

Students who wish to prepare for positions in agricultural marketing will find courses 1 and 128 in agricultural economics, and courses 1b, 5, 8a, 11, 12, 13, 15, 109a, 109b, 130, 135, 136, 181 and 182 in economics adapted to their needs.

Students who wish to prepare for positions as teachers and research workers in the field of agricultural economics will find it desirable to elect courses 224 to 240. Such students should elect courses in the Department of Economics to round out their work. Courses 1b, 8a, 8b, 101, 130, 135, 122, 123, 145, 146, 200, 201, 202, 220, 221, 222, 223, and 226 are available for this purpose.

For Undergraduates

1. Principles of Agricultural Economics. I; 5 cr. Mr. Hibbard and staff.

8. Farm Records and Accounts. I or II; 2 cr.

10. Methods of Farm Management. II; 3 cr.

25. Rural Life. II; 2 cr. Mr. Brown.

Thesis. Yr.; 2 cr. Mr. Hibbard, Mr. Macklin.

For Undergraduates and Graduates

102S. Traveling Field Course in Farm Management. 6 cr. Six weeks in the field. Arrangement must be made in advance. Mr. ——.

128. Cooperation and Marketing. II; 3 cr. Prerequisite: course 1, or equivalent. Mr. Macklin.

130. Farm Credit. II: 2 cr. Mr. Hibbard.

135. Cost Accounting on Farms. II; 2 cr.

For Graduates

224. The Premises of Agricultural Economics. I; 2 cr. Mr. Hibbard.

225. Rural Social Organization. I; 2 cr. Mr. ———

226. Land Tenure. Yr.; 2 cr. Mr. Ely, Mr. Hibbard, Mr. Macklin.

227. Economic History of Agriculture. II; 2 cr. Mr. Hibbard.

240. Research. Opportunity to do research under personal supervision as follows:

On country life. Mr. Brown.

On cooperation, and marketing. Mr. Macklin.

On cost accounting and its relation to farm management. Mr. Mendum.

On farm surveys and financial accounts in their relation to farm management.

On the history of agricultural production, and on farm credit. Mr. Hibbard.

AGRICULTURAL EDUCATION

PROFESSORS HATCH, JAMES (CHAIRMAN); ASSOCIATE PROFESSOR HULCE; ASSISTANT PROFESSORS MORTIMER, BEWICK.

The courses in agricultural education are for students who expect to teach agriculture in college, normal, high school or vocational schools or to engage in agricultural extension as a county agent or extension specialist.

For Undergraduates

1. Agricultural Education. II; 4 cr. Mr. James.
5. Boys' and Girls' Club Work. I; 2 cr. Mr. Bewick.

For Undergraduates and Graduates

103. Seminary. Yr.; cr. to be arranged. Mr. Hatch, Mr. James.
103S. Agricultural Extension Methods and Problems. 2 cr. Mr. Hatch.
105S. Vocational Agriculture. 2 cr. Mr. James.
110. Training Course for County Agents. II; 2 cr. Mr. Hatch.
A. H. 128. The Teaching of Animal Husbandry. I; 2 cr. Mr. Hulce.
Agron. 140. The Teaching of Agronomy. II; 2 cr. Mr. Mortimer.
200. Special Problems (Research). Cr. to be arranged. Mr. Hatch, Mr. James.
Thesis. Yr.; 2 cr. Mr. Hatch, Mr. James.

AGRICULTURAL ENGINEERING

PROFESSOR E. R. JONES (CHAIRMAN); ASSOCIATE PROFESSOR SWENEHART; ASSISTANT PROFESSORS DUFFEE, ZEASMAN; ASSISTANTS CHIPMAN, ELLIOTT, MEACHAM, WALSH and WHITE.

This department has unusual facilities for giving laboratory and field work under actual farm conditions. The courses prepare students of farm machinery, power machinery, farm buildings, land clearing and land drainage for general farm work, for expert service in commercial enterprises and for teaching or research. Lectures and textbook work accompany the practical work in each course. Students specializing in agricultural engineering are advised to

supplement this work with courses in higher mathematics and mechanics in the College of Engineering.

Course 1 is the only course open to freshmen.

For Undergraduates

1. General Agricultural Engineering. I or II; 2½ cr. Required of freshman agricultural students. Mr. Jones.

2. Farm Structures. I; 2 or 3 cr. Mr. Zeasman.

3. Power Machinery. I or II; 3 cr. Mr. Duffee.

4. Concrete Construction. II; 2 cr. Mr. Zeasman.

5. Farm Machinery. II; 3 cr. Mr. Duffee.

6. Land Drainage. I; 3 cr. Mr. Jones.

Thesis. Yr.; 2 cr. Mr. Jones and staff.

ELECTIVES IN THE COLLEGE OF AGRICULTURE GIVEN IN THE COLLEGE OF ENGINEERING

7. Country Roads. I; 1 cr. Mr. Smith.

13. General Carpentry. I or II; 1, 1½, or 2 cr. Mr. Johnson.

14. General Forge and Bench Work. I or II; 1, 1½, or 2 cr. Mr. Schumann.

104. Water Measurement. II; 1 cr. Laboratory work in water measurements and pump installation for drainage or irrigation of farm lands. To accompany Course 102. Mr. Corp (College of Engineering).

For Undergraduates and Graduates

101. Advanced Gas Engines and Farm Tractors. I or II; 2 cr. Prerequisite: course 3. Mr. Duffee.

***102. Drainage Design.** II; 3 cr. Prerequisite: course 1 or 6. Mr. Jones.

***103. Advanced Farm Machinery.** I; 3 cr. Prerequisite: course 5. Mr. Duffee.

***120. Research.** Yr.; cr. to be arranged. Mr. Jones and staff.

AGRICULTURAL JOURNALISM

PROFESSOR HOPKINS (CHAIRMAN); ASSISTANT PROFESSOR SUMNER.

The power to express themselves in simple, understandable English is becoming an increasingly valuable asset of the teacher,

* See Long Course Circular.

extension worker, county and home demonstration worker, and farmer. To render the greatest service the technically trained graduate must know how to write, the extension worker must use the printed page to encourage effectively the use of better methods, the farmer must be able to write advertisements and write farm sales letters.

For Undergraduates

1. Writing Farm Stories (section 1). I; 2 cr.
1. Writing Home Economics Stories (section 2). I; 2 cr.
2. Practice in Editing. Yr.; 1 cr.
3. Agricultural Publicity and Advertising. Yr.; 4 cr.
4. The History of Farm Papers. II; 1 cr.
5. Writing and Editing Farm Bulletins. II; 2 cr.
Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

140. Methods and Problems. II; cr. to be arranged.

AGRONOMY

PROFESSOR R. A. MOORE (CHAIRMAN); ASSOCIATE PROFESSORS DELWICHE, GRABER; ASSISTANT PROFESSORS LEITH, MORTIMER, STONE, WRIGHT; INSTRUCTORS ALBERTZ, HOLDEN.

The courses in agronomy are designed to give a thorough understanding of the general and scientific principles which underlie the production of farm crops, and to prepare students for instructional and research work in agronomy.

For Undergraduates

1. Description, Classification, and Judging of Cereals. I or II; 2½ cr. Mr. Mortimer.
2. Forage Crops. II; 3 or 5 cr. Mr. Moore, Mr. Graber.
3. Sugar, Fiber, and Canning Crops. I; 3 cr. Mr. Wright.
Thesis. Yr.; 2 cr. Mr. Moore and staff.

For Undergraduates and Graduates

101. Research. Credit to be arranged. Offered at Madison and the branch experiment station. Permission of instructor required. Mr. Moore and staff.
102. Grasses. I; 2 cr. Prerequisite: course 1. Mr. Mortimer.

104. Cereals. I; 3 cr. Prerequisite: course 1. Mr. Leith.

120. Seed and Weed Identification and Control. I; 3 cr. Prerequisite: course 1. Mr. Stone.

121. Advanced Crop Judging. II; 2 cr. Prerequisite: course 1. Mr. Mortimer.

130. Plant Breeding. II; 3 cr. Prerequisites: Botany 1 and Agronomy 1. Mr. Leith.

131. Seminary. Yr.; 1 cr. Permission of instructor required. Mr. Moore and staff.

140. The Teaching of Agronomy. II; 2 cr. Prerequisite: course 1. Mr. Mortimer.

ANIMAL HUSBANDRY

Emeritus PROFESSOR HENRY; PROFESSORS FULLER, HUMPHREY (CHAIRMAN), MORRISON; ASSOCIATE PROFESSOR HULCE; ASSISTANT PROFESSORS BOHSTEDT, BULLOCK, KLEINHEINZ; INSTRUCTORS CRAMER, HARRIS.

For Undergraduates

1. Elementary Live Stock Judging. I; 2½ cr. Mr. Fuller, Mr. Hulce.

2. Live Stock Management. I; 2 cr. Mr. Fuller and staff.

Thesis. Yr.; 2 cr. Mr. Bohstedt, Mr. Fuller, Mr. Harris, Mr. Hulce, Mr. Humphrey, Mr. Morrison.

For Undergraduates and Graduates

120. History of Breeds. II; 3 cr. Required of students majoring in animal husbandry. Prerequisite: course 1. Mr. Fuller.

124. The Art of Breeding. II; 2 cr. Prerequisites: courses 1, 2. Required of students majoring in animal husbandry. Mr. Bohstedt.

126. Live Stock Feeding. 3 cr. Required of students majoring in animal husbandry. First semester for Middle Course students with no prerequisite; second semester for Long Course students. Prerequisite: course 1. Mr. Bohstedt, Mr. Morrison.

127. Live Stock Pedigrees. II; 2 cr. Prerequisites: courses 1 and 120. Mr. Fuller.

128. The Teaching of Animal Husbandry. I; 2 cr. For students electing work toward a University Teachers Certificate. Mr. Hulce.

130. Swine and Sheep. I; 3 cr. Prerequisites: courses 1 and 2. Mr. Fuller, Mr. Kleinheinz.

131. Horses. I; 2 cr. Prerequisites: courses 1 and 2. Mr. Fuller.

132. Beef and Dairy Cattle. II; 3 cr. Prerequisites: courses 1 and 2. Mr. Fuller, Mr. Hulce.

135. Animal Husbandry Seminary. 1 cr. Mr. Morrison.

140. Field Problems. Yr.; 3 or 4 cr. Work to be done *in absentia* by students supervising cow testing associations and having had two years of agricultural college work. Mr. Harris, Mr. Hulce, Mr. Humphrey.

For Graduates

230. Live Stock Practice and Problems. Yr.; 1 to 3 cr. For graduates and students majoring in animal husbandry Prerequisites: course 1, 120, 124, 126. Mr. Humphrey and staff.

DAIRY HUSBANDRY

PROFESSOR FARRINGTON (CHAIRMAN); ASSOCIATE PROFESSOR SAMMIS; ASSISTANT PROFESSOR BENKENDORF, MACBRIDE; INSTRUCTOR HOLLARD.

The department offers instruction in the theory and art of manufacturing dairy products, suited to the needs of (a) farm dairymen, (b) investigators or teachers, (c) managers, operators, or inspectors of creameries, cheese factories, or city milk plants. Students intending to major in this department should elect courses 2 and 3 or 4 at the beginning of the junior year.

For Undergraduates

1. General Farm Dairying. II; 2½ cr. Lectures, Mr. Farrington; laboratory, Mr. Benkendorf, Mr. MacBride.

2. Advanced Milk Inspection. I; 3 cr. Prerequisite: course 1. Lecture, Mr. Farrington; laboratory, Mr. MacBride.

3. Creamery Buttermaking and Dairy Machinery. Yr.; 3 cr. Lecture, Mr. Farrington; laboratory, Mr. Hollard.

4. Cheese Making. Yr.; 3 cr. Mr. Sammis and assistants.

5. City Milk Supply and Ice Cream Making. II; 3 cr. Prerequisite: course 2. Lectures and laboratory. Mr. MacBride.

Thesis. Yr.; 2 cr. Prerequisites: courses 2 and 3, 4, or 5. Mr. Farrington and staff.

For Undergraduates and Graduates

102S. Dairy Practice. 1 cr. for each forty-eight hours of work, with a maximum of 4 credits. Prerequisite: course 1. Mr. Benkendorf.

120. Advanced Market Milk Problems. Yr.; 3 or 5 cr. Prerequisite: courses 2 and 5. Mr. Benkendorf.

121. Advanced Butter Yield and Quality. Yr.; 3 to 5 cr. Prerequisites: course 2 and 3. Mr. Farrington.

122. Cheese Making and Curing. Yr.; 3 or 5 cr. Prerequisite: course 4. Mr. Sammis.

130. Field Problems. Yr.; 3 to 4 cr. Work to be done *in absentia* by students supervising cow testing associations and having had two years of Agricultural College work. A study of the variations in milk tests, economy of operating cream separators and the operation of milking machines where these are in use at the farm. Mr. Benkendorf, Mr. Farrington.

ECONOMIC ENTOMOLOGY

Professor Wilson (chairman); Assistant Professor McMurry; Instructors Fluke, Hambleton.

The courses provided in this department are designed primarily to meet the needs of students specializing in other departments. Advanced and special students are expected to be able to do more or less original research upon their own initiative. The course in beekeeping includes both laboratory and field work and special trips are made to apiaries in the vicinity of Madison.

For Undergraduates

1. Farm Insects. II; 3 cr. Mr. Fluke.

7. Household Insects. I; 2 or 3 cr. Mr. Hambleton.

10. Elementary Beekeeping. II; 2 cr. For advanced work see Course 120. Mr. Wilson, Mr. Hambleton.

For Undergraduates and Graduates

103. Orchard Insects. I; 3 cr. Prerequisite: course 1 or Zoology 3. (Given 1921–22 and alternate years.) Mr. Wilson, Mr. Fluke.

110. Advanced Beekeeping. II; 2 or 5 cr. A continuation of course 10. Mr. Wilson, Mr. Hambleton.

115. Seminary. Yr.; 1 cr. For advanced and graduate students. Mr. Wilson.

120. Research Work. Yr.; cr. to be arranged. Mr. Wilson, Mr. Fluke, Mr. Hambleton.

Thesis. Yr.; 2 cr. For advanced and graduate students specializing in entomology. Mr. Wilson.

GENETICS

PROFESSOR COLE (CHAIRMAN); ASSISTANT PROFESSOR LINDSTROM; ASSISTANT LUSH.

SCHOLARS, MISS JONES, MR. YAPP.

The following courses are designed for those who desire a general knowledge of the subjects of heredity and breeding, or who contemplate following these lines, either from the theoretical or practical point of view. Special opportunity is offered those doing advanced work to get practical experience in the methods of experimental breeding.

For Undergraduates

1. Principles of Genetics. I; 2 or 3 cr. Mr. Cole, Mr. Lindstrom.

Thesis. Yr.; 2 cr. Mr. Cole, Mr. Lindstrom.

For Undergraduates and Graduates

101. Principles of Genetics. I; 2 cr. Lectures and other work of course 1 with laboratory additional. Mr. Cole, Mr. Lindstrom.

104. Plant Genetics. I; 3 cr. Prerequisite: Genetics 1 or equivalent in Departments of Botany or Zoology. Mr. Lindstrom.

105. Animal Genetics. II; 3 cr. Prerequisite: Same as for Genetics 104. Mr. Cole.

120. Seminary. Yr.; 1 cr. Consent of instructor required before election. Mr. Cole.

121. Topical Work. Yr.; 2, 3 or 4 cr. Mr. Cole, Mr. Lindstrom.

For Graduates

225. Research. Yr.; cr. to be arranged. Mr. Cole, Mr. Lindstrom.

For other courses in heredity and evolution see Botany 154 and 156, and Zoology 6 and 107 in the College of Letters and Science.

HOME ECONOMICS

PROFESSOR MARLATT (DIRECTOR); ASSOCIATE PROFESSORS KRUEGER, SCHMIT; ASSISTANT PROFESSORS ARBOGAST, BUELL, COWLES, DODGE, HILLSTROM, LEONARD, MANNING, PATTERSON, ROBERTS; INSTRUCTORS CULLINAN, M. DAVIS, MADISON. STRANG, WENGEL. FELLOW, JULIA OUTHOUSE.

For Undergraduates

1. General Survey. House Management. Yr.; 3 or 6 cr. Miss Marlatt, Miss Cowles.

2. Art and Design. I or II; 3 cr. Miss Hillstrom, Miss Strang.

3. Introduction to Food Study. II; 3 cr. Prerequisite: entrance credit in physics or chemistry or first semester of Chemistry 1. Miss Marlatt and staff.

4. Economic Problems of the Food Supply. I; 3 cr. Continuation of course 3. Prerequisites: Agricultural Chemistry 3, Home Economics 3. Miss Roberts.

5. Introduction to Textile Study. I; 2 cr. Miss Cullinan.

6. Nutrition and Dietetics. II; 4 cr. Prerequisites: Home Economics 3, 4, Physiology 1, Bacteriology 4, Chemistry 1, Agricultural Chemistry. 3. Miss Buell and Miss Wengel.

7. House Architecture and Sanitation. I; 5 cr. Prerequisites: Physics 1, Bacteriology 4, Home Economics 2. Miss Cowles, Miss Strang.

8. Household Decoration. II; 4 cr. Prerequisites; Home Economics 2, 7. Miss Hillstrom.

9. Introduction to Home Economics. I; 1 cr. Lecture course required of freshmen in Home Economics. Home Economics Faculty.

10. Household Management. I; 4 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Bacteriology 4, Physics 1 or 65, Home Economics 3. Miss Marlatt, Miss Krueger.

11. Manufacture and Selection of Clothing. Yr.; 6 cr. Prerequisites: Home Economics 2 and 5. Miss Manning, Miss Cullinan.

20. Costume Model Course. I and II; 3 cr. Miss Strang.

32. Clothing for Children. II; 2 cr. Miss Schmit.

47. Care and Feeding of Children. I; 3 cr.

50. Textiles. II; 3 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Home Economics 5. Miss Roberts.

70. Housing the Worker. II; 2 cr. Miss Cowles.

74. Decoration of the Home. II; 2 cr. Miss Strang.

91S. Millinery. 2 cr. Summer school only. Miss Schmit.

92. Organization of Courses in Hand and Machine Sewing for Teachers. 2 cr. Summer school only. Miss Arbogast.

95. Weaving. I; 2 cr. Miss Hillstrom.

96. Household Crafts. II; 1 cr. Miss Schmit.

97. Costume Design. I; 4 cr. Prerequisites: Home Economics 11. Required in major in textiles, vocational education. Miss Schmit, Miss Strang.

98. Experimental Cookery. I; 1 cr. Open to upper class students in Home Economics. Miss Wengel.

For Undergraduates and Graduates

101. Research. Yr.; credit to be arranged. Miss Buell, Miss M. Davis, Miss Roberts.

102. Topical Work. Yr.; credit to be arranged. May precede or be taken in connection with course 101. Miss Krueger, Miss M. Davis, Miss Manning.

103. Economic History of Textile Industry. I; 2 cr. Miss Krueger.

104. History of Costume in its Sociological Aspect. I; 2 cr. Miss Krueger.

105. Experimental Food Study. I; 2 cr. Limited to seniors and graduate students. Miss Marlatt, Miss Wengel.

109. Humanics. II; 4 cr. Open to seniors in Home Economics and seniors in the College of Letters and Science who have taken biology. Miss Marlatt.

120. Seminary. II; 1 cr. Miss Marlatt.

121. Teachers Course. I or II; 2 cr. Prerequisites: home economics major or minor. Miss Dodge, Miss Arbogast.

122. Institutional Management. I; 4 cr. For seniors and graduates in Home Economics. Miss Leonard.

122b. Cafeteria Management. II: 4 cr. Miss Leonard.

123. Seminary in Housing Problems. I; 2 or 3 cr. Miss Marlatt.

124. Vocational Education in Home Making. II; 2 cr. Miss Marlatt, Miss Schmit.

Education A. Practice Teaching. I or II; 2 cr. Mr. Miller, Miss Arbogast, Miss Dodge, Miss Marlatt, Miss Schmit.

125. Dietetics in Disorders of Nutrition. I; 3 cr. Prerequisites: Home Economics 6, Agricultural Chemistry 122. Required in major in food. Miss Buell, Miss Wengel.

126. Extension Course in Home Economics. II; 2 cr. Miss Marlatt and staff.

Courses for Vocational Teachers in Home Making in the Two Year Course

1a. General Survey of House Management. I; 3 cr. Miss Marlatt, Miss Wengel.

1b. General Survey of House Management. II; 3 cr. Miss Marlatt, Miss Cowles.

2. Applied Design. II; 3 cr. Miss Strang.

5. Sewing (Home Ec. 5). I; 2 cr. Miss Cullinan.

31a. Elementary Dressmaking. I; 3 cr. Miss Schmit.

31b. Advanced Dressmaking. II; 3 cr. Miss Schmit.

32. Clothing for Children. II; 2 cr. Miss Schmit.

35. Textiles. I; 2 cr. Miss Cullinan.

40. Food Study and Cookery. I; 4 cr. Miss Madison.

42. Practical Marketing Course. II; 1 cr. Miss Madison.

43. Food Conservation. II; 1 cr. Miss Wengel.

46. Food Economics. I; 2 cr. Miss Madison.

47. Care and Feeding of Children. I; 3 cr.

48. Science Problems in the House. II; 3 cr. Miss Cowles.

72. Home Nursing. II; 1 cr. Miss Patterson.

96. Household Crafts. II; 2 cr. Miss Schmit.

98. Experimental Cookery. II; 2 cr. Miss Wengel.

109. Humanics. (The family, civics and health.) II; 1 or 4 cr. Miss Marlatt.

124. Vocational Education in Home Making. II; 2 cr. Miss Marlatt, Miss Schmit.

HORTICULTURE

PROFESSOR J. G. MOORE (CHAIRMAN); ASSOCIATE PROFESSOR MILWARD; ASSISTANT PROFESSORS AUST, JOHNSON, POTTER, ROBERTS; INSTRUCTOR BRANN.

The courses offered in this department are designed to give the student a thorough working knowledge of the principles and practices of the most important lines of horticultural work.

For Undergraduates

1. Principles of Fruit Growing. I; 3 cr. Mr. Moore.

2. Advanced Fruit Growing. Yr.; 2 cr. Prerequisite: course 1. Mr. Potter.

2S. Teachers Horticulture. 2 cr. Mr. Moore.

3. Vegetable Gardening. II; 3 cr. Mr. Moore.

3S. School and Home Grounds Decoration. 2 cr. Mr. Aust.

4. Vegetable Forcing. I; 3 cr. Mr. Moore.

5. Small Fruit Culture. I; 1 cr. Mr. Moore.

***6. Landscape Gardening.** I; 3 cr. Mr. Aust.

7. Plant Propagation. II; 2 cr. Mr. Moore.

8. Floriculture. II; 3 cr. Designed for women. Mr. Moore.

9. Advanced Vegetable Forcing. II; 2 cr. Continuation of Horticulture 4. Prerequisite: course 4. Mr. Moore.

10. Farm Forestry. I; 2 cr. Mr. Aust.

11. Potatoes and Truck Crops. I; 2 cr. Mr. Milward and Mr. Moore.

Thesis. Yr. Mr. Aust, Mr. Johnson, Mr. Moore, Mr. Potter, Mr. Roberts.

For Undergraduates and Graduates

120. Plant Breeding. II; 3 cr. Prerequisite: Genetics 1 or equivalent. Mr. Potter.

121. Experimental Horticulture. Yr.; 2 to 5 cr. Mr. Aust, Mr. Moore, Mr. Potter.

122. Systematic Pomology. I; 3 cr. Students electing this course should have had Horticulture 1 and 2. Mr. Moore, Mr. Potter.

123. Systematic Olericulture. I; 2 cr. Prerequisite: Horticulture 3.

***125. Advanced Landscape Gardening.** II: 2 cr. Continuation of Horticulture 6. Mr. Aust.

PLANT PATHOLOGY

Professor L. R. Jones (chairman); Associate Professors Gilbert, Johnson, Keitt, Vaughan; Assistant Professors Dickson, Walker; Curator Davis; Lecturer Humphrey; Instructors Brann, Miller; Assistants Bitterman, L. K. Jones, Tisdale.

Fellow, Mr. Foster.

Scholars, Mr. Clayton, Mr. Monteith.

* See also College of Engineering for courses on city planning.

For Undergraduates

Thesis. Yr.; 2 cr. Subject should be chosen early, preferably the preceding spring, in order to take advantage of the summer season to secure material. Mr. Jones and staff.

5. Crop Diseases and Their Control. I; 1 cr. Mr. Vaughan.

For Undergraduates and Graduates

101. Diseases of Plants. I; 3 cr. Prerequisites: Botany 1 and Bacteriology 1. Mr. Jones, Mr. Gilbert, Miss Miller.

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Plant Pathology 101. Mr. Keitt, Mr. Tisdale. Given in alternate years as follows:

1. Fungous Diseases of Plants. (Given in 1920–21.)

2. Bacterial Diseases of Plants. (Given in 1919–20.)

104. Morphology of Fungi. I; 3 cr. Prerequisite: Botany 1 or its equivalent. Mr. Gilbert.

116. Diseases of Field Crops. II; 2 cr. Arranged to meet the needs of students specializing in plant pathology and agronomy. Mr. Dickson.

117. Diseases of Orchard Fruits. II; 2 cr. Arranged to meet the needs of students specializing in plant pathology and horticulture. Mr. Keitt.

118. Diseases of Small Fruits. (Omitted 1919–20.)

119. Diseases of Timber, and Forest Protection. II; 1 cr. A survey of fungi causing rot in living trees and structural timbers, and control measures. Mr. Humphrey.

120. Diseases of Garden Crops. (Omitted 1919–20.)

122. Fungicides in Relation to Host and Parasite. (Omitted 1919–20.)

For Graduates

220. Advanced Mycology. Yr. Prerequisite: Botany 104 or its equivalent. Mr. Gilbert.

221. Classification of Parasitic Fungi. Yr. Prerequisite: the equivalent of Botany 104 or Plant Pathology 101. Mr. Davis.

223. Seminary. Yr.; 1 cr. Mr. Jones. Mr. Dickson.

225. Research. Cr. to be arranged. Mr. Jones, Mr. Keitt.

POULTRY HUSBANDRY

PROFESSOR HALPIN (CHAIRMAN); INSTRUCTOR HAYES, REID; ASSISTANT JOHNSON.

The Poultry Department is well equipped with houses for laying stock and for brooding chicks. It also has a very complete list of incubators, brooders, and other poultry machinery. The present stock consists of twenty varieties of chickens, three varieties of ducks, five breeds of geese, and one breed of guinea fowl.

For Undergraduates

1. Poultry Raising. I; 2 cr. Mr. Halpin.

2. Poultry Raising. II; 2 cr. Continuation of course 1. Mr. Halpin.

3. Poultry Practice. Yr.; 1 to 3 cr. Mr. Halpin.

5. Artificial Incubation and Brooding. II; 1 to 3 cr. Prerequisites: courses 2 and 3. Mr. Johnson.

8. Market Poultry. I; 1 or 2 cr. Practice in fattening, killing, and dressing. Prerequisites: courses 1 and 3. Mr. Halpin.

Thesis. 2 cr. Mr. Halpin.

For Undergraduates and Graduates

106. Poultry Judging. I; 3 cr. Mr. Halpin.

107. Advanced Poultry Management. II; 3 cr. Prerequisites: courses 1, 2, and 3. Mr. ———.

120. Research Work. Yr.; Cr. to be arranged. Mr. Halpin.

SOILS

PROFESSOR WHITSON (CHAIRMAN); ASSOCIATE PROFESSORS MUSBACH, TRUOG; ASSISTANT PROFESSORS HARMER, RICHARDS, STEWART, ULLSPERGER.

Course 1 is prerequisite to all other courses except course 3. Courses 1, 3, and 120 are general in character and are adapted to the needs of all students of agriculture. Advanced students specializing in this subject are advised to elect courses in chemistry, soil bacteriology, plant physiology, agronomy or geology, according to their special needs, during their senior and graduate years. The summer period is particularly suited to advanced work in soil fertility and courses are offered in the summer session for that reason.

For Undergraduates

1. Principles of Soil Physics and Fertility. II; 5 cr. Prerequisite: or accompanied by Chemistry 11Ag. Mr. Harmer.

1S. Elementary Soils. 2 cr. Prerequisite: a course in general chemistry. Mr. Harmer.

3. Soil Physics and Fertility; Brief Course. II; 3 cr. Required of freshmen, Middle Course. Mr. Stewart.

Thesis. Yr.; 2 cr. Mr. Whitson and staff.

For Undergraduates and Graduates

120. Soil Management. II; 2 cr. Mr. Whitson.

121. Soil Analysis. I; 3 or 5 cr. Mr. Truog.

122. Soil Physics. I; 4 cr. Mr. Stewart.

124. Plant Nutrition. I; 3 cr. Given 1918–19 and in alternate years. Mr. Harmer.

125. Origin and Classification of Soils and Agricultural Climatology. II; 3 cr. Alternates with course 127, given 1920. Mr. Whitson.

127. Advanced Soil Chemistry. II; 2 cr. Alternates with course 125, given 1921. Mr. Truog.

128. Field Management. Yr.; 2 to 4 cr. Mr. Richards.

For Graduates

231. Research. Mr. Whitson and staff.

232. Seminary. Yr.; 1 cr.

VETERINARY SCIENCE

PROFESSORS ALEXANDER, HADLEY (CHAIRMAN); ASSOCIATE PROFESSOR BEACH; ASSISTANT STADER.

The studies detailed below are designed to give students interested in animal production an opportunity to learn how the body is constructed and works. With this as a basis, the more important aspects of live stock sanitation are studied. Especial emphasis is placed on the prevention of animal diseases. The work is made of practical value with the aid of live animals, specimens, models, charts, and other apparatus. These studies introduce the student to terms commonly used in medicine and thus provide a means by which a reading knowledge of veterinary literature may be easily acquired.

For Undergraduates

1. The Animal Body. I; 3 cr. Mr. Hadley.
2. Diseases of Horses and Swine. II; 2 cr. Mr. Hadley.
3. Diseases of Cattle and Sheep. I; 2 cr. Mr. Alexander.
4. Animal Disease Control. I; 1 cr. Mr. Alexander.
Thesis. Yr.; 2 or 4 cr. Mr. Hadley, Mr. Beach.

For Undergraduates and Graduates

123. Conformation and Soundness. II; 2 cr. Mr. Alexander.
124. Topical Work. Yr.; cr. to be arranged. Mr. Hadley and staff.

For Students in Veterinary Medicine

The following studies were given in 1919–20 to students enrolled in the Course in Veterinary Medicine provided by the State Board of Education.
10. Osteology and Arthrology. I; 5½ cr. Mr. Hadley and assistants.
11. Myology and Splanchnology. II; 6 cr. Mr. Hadley and assistants.

AGRICULTURAL EXPERIMENT STATION

H. L. Russell, Director.

The Wisconsin Agricultural Experiment Station is organically associated with the College of Agriculture and members of the faculty of the College constitute the staff of the Station. The purpose of the Station is the promotion of agricultural science by research and experimentation. The funds for the work of the station come from both state and federal appropriations. Each of the several departments has research work continually in progress, some members of the staff devoting the major portion of their time to this work. Such subjects are selected as are of the greatest importance to the farmers of Wisconsin, as far as the facilities at hand permit.

The publications of the Experiment Station include an annual report, a series of popular bulletins, a series of research bulletins, a series of circulars, and a series of poster bulletins. The popular bulletins, including helpful discussions of the results of experiments, are

distributed free to residents of the state upon application and are issued in editions of 20,000 to 50,000 copies. The research bulletins contain technical data and discussions not designed for wide distribution and are sent to libraries, investigators, etc. Thirty annual reports, 285 popular bulletins, 42 research bulletins, 94 circulars, 12 poster bulletins, 24 special bulletins and 53 bankers' bulletins have been issued. Any person desiring to receive the popular bulletins should apply to H. L. Russell, Director, Madison, Wis.

AGRICULTURAL EXTENSION SERVICE

H. L. Russell, Director.

The extension work of the College of Agriculture is organized as a service of the several departments of the institution rather than as a distinct department of the College. Under this service three distinct lines of work are carried on:

1. Field demonstration work of the several departments.
2. The county agricultural or home demonstration system in which a resident instructor is located in a county.
3. Collective extension instruction given in connection with the farmers' weeks and women's schools, demonstration trains, etc.

Through this system of giving instruction and practical demonstrations to persons not resident at the College, many thousands of rural people who are unable to come to Madison for resident instruction are aided directly by the work of the College. Much of the work is organized on the project basis, and is partly supported by federal funds. Persons desiring to receive printed matter and other information relative to this work should apply to K. L. Hatch, Assistant Director.

FARMERS' INSTITUTE

E. L. Luther, Superintendent, Alice Hibbard, Clerk.

The Department of Farmers' Institutes of the College of Agriculture is maintained by a legislative provision which appropriates $20,000 annually for the purpose of conducting Farmers' Institutes at various places throughout the state. The superintendent, in cooperation with the Wisconsin Live Stock Breeders' Association and the Wisconsin Horticultural Society, assisted by special conductors

and workers, plans to conduct 170 two day, 20 Light Soils-Live Stock, 60 Women's and such other special activities as the needs require. At each institute "follow-up" work is arranged with farmers having problems and this "follow-up" work will result in summer field demonstrations and institutes.

A Farmers' Institute Bulletin is issued annually in an edition of 31,500 copies and is distributed free of charge.

LAW SCHOOL

H. S. Richards, Dean, Professor of Law.

Resources of the Law School

The Law School is supported by annual appropriations from the Board of Regents and by the Mortimer M. Jackson Professorship of Law. The late Judge Mortimer M. Jackson by his will gave $20,000 to the University, the income to be used to maintain a chair of law. The Regents in 1890 formally established the Mortimer M. Jackson Professorship of Law. Judge Jairus H. Carpenter, for many years Dean of the Law School, was the first incumbent of this chair, which he held until his death in 1913.

Object of the Course

The Law School offers a course of study covering a period of three years. It is designed to teach the fundamental principles of the English and American law in a thorough manner, and to fit the student for the active practice of the profession.

Admission

See p. 89.

Applicants for admission who can satisfy the general entrance requirements and who are 21 years of age will be admitted as unclassified students and entitled to all the privileges of the School in the way of instruction. An opportunity is thus afforded to prepare for the bar examinations in this and other states.

The examinations are conducted at the same time and by the same members of the faculty as the examination of candidates for admission to the College of Letters and Science.

In addition to the other entrance requirements, all candidates for admission to the Law School, whether graduates of accredited high schools or not, are required to take the regular entrance examination in English required for admission to the College of Letters and Science, except,

(a) Students of the University who have already passed such examination;

(b) Graduates of other approved colleges and universities. But the Faculty may require any student to take additional work in English if, in their judgment, it is necessary.

Those intending to apply for examination for admission to the first year class or for advanced standing should notify the Registrar of the University before the beginning of the year and apply for directions, as examinations cannot be taken later.

For dates of examinations see Calendar, p. 8.

Pre-legal Courses

The following courses approved by the Association of American Law Schools are suggested for students preparing for the study of law, where only two years are devoted to such work: English (rhetoric and composition), two years; Latin or Greek, two years; German or French, two years; mathematics, or a natural or physical science, one year; history (including English and American constitutional history), two years; psychology. If three or more years be devoted to such preparation, additional courses in history, natural science, and courses in philosophy, political science, economics, and sociology are suggested.

Advanced Standing

Candidates for advanced standing who can comply with the general entrance requirements of the School as above set out will be given equivalent credit for satisfactory work done in other law schools in good standing having a three-year course, upon presenting properly authenticated certificates of such work. The right is reserved to require examinations in all cases where the credits presented are not regarded as equivalent.

Students who have been graduated from the College of Letters and Science, and who while students in that College have elected and earned twenty credits in the Law School, will be admitted to the second year. To meet the above requirement, the student must elect courses offered in the first year of the law course.

All persons from other universities or colleges who intend to apply for advanced standing under the above rules should forward or present their credentials to the Dean of the School at least one week before the opening of the particular session which the student desires to attend.

Graduation

The degree of Bachelor of Laws will be conferred upon all candidates of good character who are at least twenty-one years of age, and have complied with the following conditions:

(1) Credit for at least seventy-four credit hours with a weighted average of fair (a credit is the equivalent of one hour a week for a semester).

(2) Residence of at least three years in a law school of good standing, having a three-year course, one year of which must have been in this School.

(3) Completion of a seminary course in public and private law covering the equivalent of two hours per week for a semester. By permission of the Dean a student may write a thesis with equivalent credit in lieu of the thesis course.

(4) A clerkship of not less than six months in an accredited law office. This requirement may, at the option of the student, be absolved by two periods of not less than three months each. It must be entirely absolved at a time when the student is not in attendance upon the University, and after the student shall have received credit for not less than twenty semester hours in the Law School.

Students completing the course with distinguished ability and presenting a thesis of unusual merit will be recommended for the degree with honor.

Admission to the Bar

The statutes of the state provide that any resident graduate of the Law Department of the University of Wisconsin shall be admitted to practice in all of the courts of this state by the supreme court upon the presentation of his diploma, and may be admitted to the supreme court when not in session by an order signed by one of the justices thereof and filed with the clerk of said court. (R. S. Wis., sec. 2586.)

Under this statute and a rule of the federal court, it is customary for the graduating class, on motion of a member of the Faculty, to be admitted to the supreme court of the state and to the district and circuit courts of the United States immediately upon graduation. This entitles them to admission to the bar of any court of record in Wisconsin and all federal courts.

COURSES OF INSTRUCTION

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

The courses of instruction are arranged to present, as far as possible, the fundamental topics of the law during the first year, and the specialized subjects during the second and third years.

First Year

Agency. II; 2 cr. Mr. Richards.
Briefmaking. I; 1 cr. Mr. Wickhem.
Common Law Pleading. I; 2 cr. Mr. Wickhem.
Contracts. Yr.; 7 cr. Mr. Page.
Criminal Law. Yr.; 4 cr. Mr. Gilmore.
Property I. (Personal) I; 2 cr. Mr. Rundell.
Property I. (Real) II; 2 cr. Mr. Rundell.
Torts. Yr.; 6 cr. Mr. Gilmore.

Second and Third Years

Administrative Law I. I; 2 cr. Mr. Hall.
Administrative Law II. II; 2 cr. Mr. Hall.
Administrative Law III. I; 2 cr. (Omitted 1919–20.) Mr. Hall.
Administrative Law IV. II; 2 cr. (Omitted 1919–20.) Mr. Hall.
Bankruptcy. II; 2 cr. Mr. Wickhem.
Bills of Exchange and Promissory Notes. I; 3 cr. Mr. Wickhem.
Conflict of Laws. (Omitted in 1919–20.) Mr. Page.
Constitutional Law. Yr.; 6 cr. Mr. Gilmore.
Conveyancing. II; 3 cr. Mr. Rundell.
Corporations. II; 4 cr. Mr. Richards.
Criminal Procedure. (Omitted 1919–20.) Mr. Smith.
Damages. II; 2 cr. Mr. Wickhem.
Equity I. I; 3 cr. Mr. Smith.
Equity II. II; 3 cr. Mr. Smith.
Evidence. Yr.; 4 cr. Mr. Smith.
Future Interests. II; 4 cr. Mr. Rundell.
Insurance. (Omitted in 1919–20.) Mr. Rundell.
International Law. II; 2 cr. Mr. Page.
Mortgages. I; 3 cr. Mr. Rundell.

Office Practice. II; 2 cr. Mr. Wickhem.
Partnership. I; 3 cr. Mr. Richards.
Persons. I; 2 cr. Mr. Wickhem.
Practice Court. II; 1 cr. Mr. Wickhem.
Practice. Yr.; 4 cr. Mr. Sanborn.
Pleading. Yr.; 4 cr. Mr. Boesel.
Professional Ethics. II; no credit. Chief Justice Winslow.
Public Service Companies. II; 2 cr. (Omitted in 1919–20.) Mr. Gilmore.
Quasi-Contracts. I; 3 cr. Mr. Smith.
Sales. II; 3 cr. Mr. Smith.
Servitudes. I; 2 cr. Mr. Rundell.
Suretyship. I; 2 cr. (Omitted in 1919–20.)
Thesis Course. Legal History. II; 2 cr. Mr. Page.
Trusts. I; 4 cr. Mr. Richards.
Wills and Administration. I; 3 cr. Mr. Page.

Required and Elective Courses

Candidates for the degree are required to take all the subjects of the first year, twelve hours of work in the second year, and twelve hours in the third year. The work of the second and third years is elective except the course in the History of Law required of all candidates for a degree. Second year students may elect not less than twelve nor more than fourteen hours in courses offered in the second year. Second year students who are graduates of the College of Letters and Science and who have not completed all the courses of the first year will be required to include such omitted courses in their list of electives. Third year students may elect not less than twelve nor more than fifteen hours in courses offered in the third year and in courses not already taken by them when second year students. No student is permitted to count more than twelve hours of work in any one semester toward the total hours required for the degree. Elections in all cases are subject to the approval of the Dean.

Procedure and Practice Courses

Courses in Procedure and Practice extend throughout the last two years and comprise Common Law Pleading, two credits, Code Pleading, four credits, Equity Pleading, one credit, Code Practice four credits, and Criminal Procedure, one credit. The purpose of the courses is to instruct the student in the principles of pleading and practice at common law and under the codes, by duplicating as

far as possible the steps taken by an active practitioner in the preparation for trial of cases at law and in equity throughout the entire field of litigation. The student is required to prepare pleadings in assigned cases, and to carry a cause of action through the various steps from its inception to the final judgment. A practice court is maintained in connection with the work in code practice.

Elective Studies

Students of the Law School will be permitted to pursue studies in other departments of the University, but not for credit toward the law degree.

Students in the College of Letters and Science will be permitted to elect, as a part of their undergraduate course, studies in the Law School for which see p. 109.

Examinations

Written examinations are held at the close of each semester and of the summer session.

Library

The Library of the Law School contains 29,000 bound volumes, comprising the official reports of the various states and territories and of the United States; a complete set of English, Irish, and Canadian reports; Australasian Reports; the Reporter System; the various series of selected cases, as American Decisions, American Reports, American State Reports; Lawyers' Reports Annotated; duplicates of the more important reports; complete sets of the leading law periodicals; the leading encyclopedias of law and other works of reference; a large collection of textbooks, statutes, digests, etc.

Students are allowed free access to the books. The Library is open each week day from 8 A. M. to 10 P. M.

Courses in other Departments

Students of the Law School may pursue studies for which they are prepared, in other departments of the University, without additional fees in so far as such studies do not interfere with their work in the Law School. Before registering in other departments, the students must obtain permission from the Dean of the Law School.

Fees and Expenses

See pp. 62ff.

Receipts showing the payment of tuition must be filed with the Dean within ten days after entry.

Summer Session

(June 28—Sept. 3, 1920)

The summer session established in 1907 is a regular session of the School. The courses offered are not review courses nor abbreviations of the subjects presented during the regular session. The lectures are given by regular members of the Faculty assisted by experienced teachers from other law schools. Full credit toward the degree in law is given for all work successfully completed. An opportunity is thus afforded to those who for any reason are unable to attend the regular session to obtain thorough and systematic legal instruction. By taking advantage of the summer sessions, regular students of the School can materially shorten the calendar period of residence required for the degree.

Courses of Instruction

PROFESSORS CLARK (University of Missouri), CRANE (University of Pittsburgh), PAGE, RUNDELL, and ASSISTANT PROFESSOR WICKHEM.

First Year

Contracts. Nine hours a week for ten weeks; 6 cr. Mr. Page.

Personal Property. Three hours a week for ten weeks; 2 cr. Mr. Rundell.

Second and Third Years

Bills and Notes. Six hours a week for ten weeks; 4 cr. Mr. Wickhem.

Equity II. Jurisdiction over Torts. Nine hours a week for the second five weeks; 3 cr. Mr. Clark.

Insurance. Three hours a week for ten weeks; 2 cr. Mr. Rundell.

Partnership. Nine hours a week for the first five weeks; 3 cr. Mr. Crane.

Persons. Three hours a week for ten weeks; 2 cr. Mr. Wickhem.

Servitudes. (Rights in land of another). Three hours a week for ten weeks; 2 cr. Mr. Rundell.

MEDICAL SCHOOL

C. R. Bardeen, Dean, Professor of Anatomy.

Aims

The aims of the Medical School are threefold:

1. To encourage a thorough preliminary medical education, and to offer adequate facilities for a thorough preparation for clinical work.
2. To promote the development of preventive medicine and hygiene.
3. To stimulate research in the sciences upon which modern medicine is based.

Admission Requirements in the Medical School

See p. 89.

Admission to Advanced Standing

A student who has completed elsewhere work equivalent to that required for matriculation and to that of the first year of the medical curriculum may be admitted to the second year of the medical course.

Medical Certificates

Upon the successful completion of the two years of the medical curriculum at Wisconsin, a student will be given a formal certificate. A student who completes less than the two years of the medical course may, however, obtain credentials covering the premedical and medical studies which he has pursued.

Degrees

The Medical School offers merely the first two years of a four-year medical curriculum and confers no degrees. The College of Letters and Science confers the degree of bachelor of science upon the students registered during the junior and senior years in the

Medical School, and the degree of bachelor of science or of bachelor of arts upon students registered during the senior year in the Medical School. The degrees of master of science, master of public health, doctor of philosophy and doctor of public health are conferred by the university faculty upon graduate students who specialize in the medical sciences and fulfill the requirements of these degrees, which are described in the section devoted to the Graduate School.

Bachelor of Arts

The regular requirements for the degree apply to those students who elect the work of the first year of the medical course during the senior year in the College of Letters and Science.

Bachelor of Science

(Medical Science Course)

Students in the College of Letters and Science who are candidates for this degree are required to take the following studies:

a. English: 6 credits (3 hours per week per semester) to be taken in the first year of residence.

b. Foreign language. (1) A knowledge of elementary Latin (equivalent to two years of high school Latin); (2) A reading knowledge of German or French. This reading knowledge shall be determined by the respective departments and will ordinarily be the equivalent of six credits beyond first year French or of four credits beyond second year German. At least two years of work in foreign language shall be taken in college.

c. Courses in physics, chemistry, biology, and the medical sciences as outlined in the requirements of the Medical School. The requirements made of candidates for the degree of bachelor of arts that six unit hours shall be elected in either history or mathematics does not apply to candidates for the degree of bachelor of science (Medical Science Course).

d. The "credit" is the standard for computing the amount of work required for graduation. This is equal to one hour of recitation or lecture per week for one semester. Students are expected to take 15 credits per week in recitations, lectures, and laboratory work, making 30 credits per year, and 120 for the course. The same number of grade points is also required. In addition, two hours per week (one credit per semester) of gymnastics are required of men, and four hours per week (two credits per semester)

of women, during the two years. Men are required to drill two hours per week during the first two years for which four credits are given. The total requirements for classroom work, military drill, and the gymnasium are, therefore, 128 credits.

No student will be permitted to receive credit toward graduation for more than eighteen credits in one semester in regular studies except by permission of the Faculty, obtained in advance. Candidates for the degree of bachelor of science cannot count toward graduation more than sixteen credits in any one semester unless the standings are 85 or above.

e. Major Study. At the beginning of the sophomore or the junior year, every candidate for the degree of bachelor of arts or bachelor of science shall elect as his major subject work in some one department. This department will determine the manner in which the work of the major shall be completed.

f. Thesis. All candidates for a baccalaureate degree are required to present a graduating thesis, the subject of which must be approved by the student adviser and the chairman of the department in which the candidate is doing the work represented by the thesis. The thesis must represent some phase of the student's work in his major study, and must have the character of a scholarly dissertation on the subject.

Choice of Courses

The student who enters the College of Letters and Science with the intention of studying medicine should arrange his work so that he can take up systematically the work required for medical credit and for a bachelor's degree. Elective work should be chosen with the intention of making the course of study broad as well as thorough.

The following language studies are required:

English 1a, 1b.

Two years of foreign language including second year French or third year German unless a high grade is obtained in second year German.

Students who have not studied Latin in the high school are required to take a course in elementary Latin.

The following science studies are required:*

* It is recognized that similar courses at other institutions may not correspond with the scientific courses given at Wisconsin. This will not prevent full credit being granted for approximately equivalent courses pursued elsewhere.

Pre-medical Work

	Lectures and Recitations.	*Laboratory Hours.*	*Credits.*
Chemistry 1	128	192	10
Organic Chemistry 120	48	96	4
Physics 1 or 1Sc	160	128	10
Biology	96	256	10
	432	672	34
Study required in the first year of medical course if not presented for matriculation:			
Embryology	16	48	2
First Year Medical Course			
Histology	32	112	4
Neurology	32	80	4
Gross Anatomy	32	352	12
Physiology	112	128	9
Physiol. Chemistry	20	140	4
	228	812	33
Second Year Medical Course			
Pathology	80	192	8
Bacteriology and Hygiene	64	112	5
Pharmacology and Toxicology	64	144	6
Clinical Medicine	64	128	6
	272	576	25

Required of candidates for a bachelor's degree: Thesis: 128 laboratory hours (4 units).

Required and elective work may be arranged according to one of the following plans:

1. Six-Year Combined Course (Leading to the B. S. and M. D. Degrees)

If the student has a thorough preparation in the high school, he may take work in the freshman and sophomore years which will enable him to matriculate in the Medical School in his junior year, take the B. S. degree and get a certificate for two years of medical study at the end of the senior year, and complete his medical course by two years' further study in any medical school which does not require more than two years of college work for entrance. During the freshman and sophomore years such a student will have to confine himself closely to the work in science and language required for matriculation in the Medical School. The exact choice of studies will depend somewhat upon the high school training and the ability of the student.

The following schedule is suggested:

Freshman Year

	Credits
English 1a and 1b	3
German or French	4
Chemistry 1	5
Electives	3

Sophomore Year

German or French	4
Physics 1	5
Biology 1	5
Organic Chemistry 120, I	4
Embryology 115, II	2

Junior Year

(First Year in the Medical School)

First Semester	Credits	Second Semester	Credits
Histology 110	4	Neurology 126	4
Human Anatomy 121	8	Human Anatomy 121	4
Physiol. Chem. 104	4	Physiology 105	9

Senior Year

(Second Year in the Medical School)

Pathology 101	6	Pathology	2
Medical Bacteriology 102	5	Toxicology 101–2	2
Pharmacology 104–5	4	Clinical Medicine 101–103	10
Thesis	2	Thesis	2

2. Seven-Year Combined Course (Leading to the B. A. and M. D. Degrees)

In this course the student matriculates as a first-year medical student during his senior year in the College of Letters and Science, receives the B. A. degree upon graduation, and takes the second year of the medical course as a graduate student. He can then finish the clinical portion of the medical course by two years' further study, thus making the combined arts and medical course seven years. This course is in many ways preferable to the six-year combined course since it permits a greater freedom of election and a broader course of study. The language and science work should follow somewhat the lines laid down for the freshman and sophomore years in the six-year combined course, but can be more spread out and taken

in conjunction with various electives to suit the needs and inclinations of the student.

3. Complete Arts Course Preceding the Medical Course

Students who can afford the time may take the complete arts course before beginning the technical work of the medical course. A bright, well-trained student not infrequently manages to take the B. A. degree in three years. For such a student, the time needed for the two degrees would be the same as that mentioned above. For other students eight years are required, four for the B. A. course and four for the medical course. A far broader training is thus afforded than in the shorter combined course. Students expecting to finish the clinical part of the medical course at the Johns Hopkins, Cornell, or Western Reserve University must choose either the course of study mentioned above or the seven-year combined course.

The work in sciences and foreign language should include all of that mentioned in the first two years of the six-year combined course and may profitably extend beyond this.

Full credit for one year of medical work will not be allowed unless the required preliminary studies and the studies of the first year of the medical course have been completed, and the student has been registered two semesters in the Medical School. Full credit for two years of medical work will be granted only to those who have satisfied the preliminary requirements, who have registered for two college years as medical students, and who have completed all the required studies of the regular curriculum.

4. Courses Leading to M. P. H. and Dr. P. H.

In conjunction with the State Department of Public Health and with the Department of Health of Milwaukee, a course is offered extending over one year and leading to the degree of Master of Public Health. This course will be open to those who have received a degree in medicine or in medical or sanitary science and desire to fit themselves especially for public health work. It is also planned to offer a short course each year for those already engaged in public health work, but who desire more insight into certain aspects of this work. The following course leading to the degree of master of public health is announced for the year 1919–20. Candidates for the degree of doctor of public health are required to do advanced work and to write a thesis in addition to completing the work covered by this course.

First Semester	Credits	Second Semester	Credits
Hygiene 102	5	Hygiene 106	3
Hygiene 110	5	Hygiene 120–121	5
Hygiene 115	2	Hygiene 126	3
Hygiene 125	3	Pathology 104	4
		Zoology 19	3

Various other courses are also open to election.

Courses for Physicians

The regular courses in the various departments are open to physicians. It is hoped gradually to develop such shorter special courses as may be of greatest direct practical benefit to the physicians of the state in aiding them to keep up with the rapid advance in the medical sciences. Suggestions concerning such courses are desired.

Scientific Investigation

It is desired that the facilities of the various laboratories of the Medical School be utilized to the greatest advantage in the investigation of the causes and prevention of disease both in man and animals. The laboratories of the Medical School are freely open to those engaged in such investigations, and, as far as possible, aid will be given in the carrying out of investigations of this character either at the University or elsewhere in the state.

DEPARTMENTS OF INSTRUCTION

Abbreviations in the announcement of courses: Yr., throughout the year; I, given during the first semester; II, given during the second semester; I or II, given each semester; cr., credits, i. e., hours of credit. Unless otherwise stated, the number of credits per semester is given.

For a description of the courses in botany, zoology, chemistry, physics, psychology, climatology, and languages, see departmental announcements in the College of Letters and Science.

ANATOMY

PROFESSORS BARDEEN, W. S. MILLER; ASSISTANT PROFESSOR LARSELL; INSTRUCTOR SKAVLEM; ASSISTANTS BACH, HITTNER, HUBER, KROHN, RAUBE, URBERG.

A group of courses intended to offer a comprehensive view of the gross and microscopic anatomy and the embryology of mammals

with especial reference to man is given in this department. In addition, opportunities are offered for advanced work and research in anatomy and for a study of some of the lower animal types of special interest in medicine.

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Miller.

115. Mammalian Embryology. I or II: 2 cr. Dr. Bardeen.

120. Anatomy. For students of physical education. II; 6 cr. Dr. Bardeen.

121. Human Gross Anatomy. Yr.; 6 cr. Dr. Bardeen, Dr. Skavlem.

122. Topographical Anatomy. I or II; 3 cr. Dr. Bardeen.

123. Special Human Anatomy. Those qualified to do independent work may make some special arrangement for the study of human anatomy.

126. Neurology. II; 4 cr. Dr. Larsell.

130. Advanced Anatomy. Dr. Bardeen.

131. Historical Seminary. II; 1 cr. Dr. Miller.

For Graduates

235. Investigation under Direction.

240. Independent Investigation. Facilities for conducting research in anatomy are offered.

CLINICAL MEDICINE

Professors Evans, Van Valzah; Associate Professor Lorenz; Assistant Professors Middleton, Morris, Patterson, Robbins; Lecturers Dean, Drake, Jackson, Greeley, Tormey; Instructors Blankenship, Curl, Donovan, Fahr, Gonce, McGarvey; Assistants Dr. Zellmer, Miss Gray, Miss Murphy, Miss Wilson.

101. Clinical Diagnosis. II; 5 cr.

102. Clinical Laboratory Diagnosis. II; 3 cr.

103. Minor Surgery and Bandaging. II; 2 cr.

104. X-ray Technique.

105. Medical Specialties. II; 1 cr.

HYGIENE

PROFESSORS EVANS, EYSTER, CLARK; ASSOCIATE PROFESSOR STOVALL; ASSISTANT PROFESSOR DAWSON; INSTRUCTOR CHENEY; MR. HUTCHCROFT.

In conjunction with the staff of the State Laboratory of Hygiene, the State Board of Health, and the Board of Health of Milwaukee, courses in hygiene are offered by members of the Faculty of the Medical School under the general supervision of Dr. Clark.

For Undergraduates and Graduates

102. Bacteriology for Health Officers. I; 5 cr. Dr. Clark, Dr. Stovall.

104. Immunity. II; 4 cr. May be taken as thesis course with additional assignments. Dr. Clark.

106. Physiology for Health Officers. II; 3 cr. Given in conjunction with courses 106 and 107 in medical physiology but with special reference to the needs of the health officers. Dr. Eyster, Dr. Dawson.

107. Sanitary Bacteriology. II; 3 cr. Designed for students interested in the bacteriological problems involved in the public control of water, sewage, and food. Dr. Cheney.

110. Pathology and Hygiene for Health Officers. I or II; 3 cr. Given in conjunction with pathology 101 and clinical medicine 102, but with special work for health officers. Dr. Bunting, Dr. Clark, Dr. Evans, Dr. Stovall.

115. Public Health Administration and Vital Statistics. I; 2 cr. Mr. Hutchcroft.

120. Practical Field Work. II.

121. Practical Field Work.

PATHOLOGY AND MEDICAL BACTERIOLOGY

PROFESSORS BUNTING, CLARK; ASSISTANT PROFESSOR JACOBSON; INSTRUCTOR CHENEY; ASSISTANTS FALSTAD, MURPHY, ROBERTS.

For Undergraduates and Graduates

Courses 101, and 103 are open to students who have successfully completed courses in histology and embryology. Courses 101 and 102 are required of medical students.

101. General and Special Pathology. I; 7 or 8 cr. Continues for 5 weeks into second semester. Dr. Bunting, Dr. Jacobson.

102. Medical Bacteriology. I; 5 cr. Dr. Clark, Dr. Cheney.

103. Experimental Pathology. II; 4 cr. Dr. Bunting, Mr. Leake.

104. Immunity. II; 4 cr. Prerequisite: course 102. Dr. Clark.

107. Sanitary Bacteriology. II; 3 cr. Dr. Cheney.

For Graduates

204. Advanced Pathology. Dr. Bunting.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology. Dr. Clark.

PHARMACOLOGY AND TOXICOLOGY

Professor Loevenhart; Assistant Professor Schlomovitz; Assistant Seybold.

Elementary and advanced courses in pharmacology and toxicology are offered in this department. For the elementary courses a previous training in physiological chemistry and physiology is required. The advanced courses are open to those who have had adequate elementary training.

For Undergraduates and Graduates

101. Toxicology. II; 1 cr. Dr. Loevenhart.

102. Toxicology. II; 1 cr. Dr. Loevenhart.

104. Pharmacology. I; 2 cr. Dr. Loevenhart, Dr. Schlomovitz, Mr. Seybold.

105. Pharmacology. I; 2 cr. Dr. Loevenhart, Dr. Schlomovitz, Mr. Seybold.

108. Advanced Work. Dr. Loevenhart, Dr. Schlomovitz.

112. Independent Investigation.

116. Journal Club. Yr.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

Professors Eyster, Bradley, Meek; Assistant Professor Dawson; Assistants Bemis, Elliott, Huston, Irvine, Leake, Machlis, Reid, Ronzone, Umbreit.

The following courses are designed especially for students studying medicine. Course 104 is open only to those who have had a pre-

vious training in general and organic chemistry (courses 1 and 120), physics (course 1 or 1Sc) and general biology (course 1). As a preparation for course 105, comparative anatomy, histology, and neurology (Anatomy 105, 110, and 126), and course 104 are recommended.

For Undergraduates

1. Elements of Physiology. I; 3 cr. Especially adapted to teachers of elementary physiology and hygiene. Required of sophomores in home economics (2 cr.) and open to other students. Students should have had some chemistry. Dr. Meek, Dr. Dawson.

2. Elements of Physiology. I; 1 cr. Laboratory. Required of sophomores in home economics; open to others as an elective. Dr. Meek, Dr. Dawson.

3. Animal Physiology. II; 4 cr. Especially designed for students in agriculture, but open to other students. Dr. Meek.

For Undergraduates and Graduates

104. Physiological Chemistry. I; 4 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Dr. Bradley.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: general and organic chemistry, physics, and biology. Dr. Bradley.

105. Physiology. II; 9 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: comparative or human anatomy, histology, neurology, and physiological chemistry. Dr. Eyster, Dr. Meek, Dr. Dawson.

115. Physiology. II; 7 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: comparative anatomy and physiological chemistry. Dr. Eyster, Dr. Meek, Dr. Dawson.

116. Physiology of Exercise. I; 3 cr. Required of seniors in physical education and open to others as an elective. Prerequisite: Physiology 105 or 115. Dr. Eyster, Dr. Meek, Dr. Dawson.

117. Advanced Physiological Chemistry and Research. Yr.; credit according to work done. Dr. Bradley.

118. Advanced Physiology and Research. Yr.; credit according to work done. Dr. Eyster, Dr. Meek.

120. Journal Club. Yr.; 1 cr. Reports on recent physiological and biochemical literature. Dr. Eyster.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students of medicine who desire a wider experience in experimental physiology than can be gained in course 105. Dr. Eyster.

210. Advanced Laboratory Course in Physiological Chemistry. Corresponds to course 208.

GRADUATE SCHOOL

GEORGE C. COMSTOCK, DEAN.

General Statement

The University of Wisconsin is a part of the system of public instruction provided by the state, but is open to all properly qualified students without regard to state lines. It is the aim of the University to offer opportunities for advanced instruction and research to as wide a constituency as possible. No limitations are placed upon a student's freedom in research and in the expression of his conclusions upon subjects which he is prepared to treat, but the University avoids all that is partisan in politics and sectarian in religion, without debarring its members from investigation and activity in any field.

Organization

The work of the Graduate School is under the general direction of the Graduate Faculty. The Dean of the Graduate School is charged with general supervision of all graduate students and is the medium of communication between such students and the university administration.

Aims and Methods

The Graduate School aims to serve the needs of men and women of college training who desire a larger and more thorough acquaintance with the scholarship and research of the world than can be obtained in the current undergraduate courses. It seeks to awaken in the minds of capable men and women an appreciation of high scholarship, research, and the advancement of learning, to the end that they may effectively aid, not only in the promulgation of academic instruction, but also in extending the boundaries of knowledge. Although the work of the Graduate School is in large part planned with reference to the needs of those who desire to fit themselves for the higher positions in the work of education, and who as preparation for this work wish to specialize along definite lines, the opportunities of the School are open to others as well.

In all departments of the Graduate School special emphasis is laid upon bringing the graduate student into contact with the research problems of his field of study. To this end able students share in the investigations of their instructors and are encouraged to acquire the spirit as well as the methods of productive work. Provision has been made by the University for the publication under its auspices of the results of specially meritorious work of this kind, and doctors' theses of more than common merit are occasionally thus published.

Clubs and Societies

To promote interest in problems of scholarship and investigation, and for training in the presentation of results, numerous voluntary clubs and societies have been established by instructors and students in the Graduate School. Among these are:

The Sigma Xi
The Classical Club
The Language and Literature Club
The Historical Conference.
The Romance Language Club
The German Journal Club
The Chemical Club
The Biological Club
The Mathematical Club
The Wisconsin Section of the American Chemical Society
The University of Wisconsin Branch of the American Institute of Electrical Engineers
The University of Wisconsin Section of the American Electrochemical Society

The Graduate Club, while sharing in these purposes, is primarily a social organization of graduate students for the promotion of acquaintance and good fellowship among themselves and members of the faculty.

Fellowships and Scholarships*

University Fellowships

For the purpose of promoting higher scholarship and research the Regents of the University have established twenty-four University Fellowships of the annual value of $500 each. These are allotted to the several departments of instruction as follows:

* With the exception of honorary fellows, all fellows and university scholars are required to pay the incidental fee.

To Economics, two; to History, two; to Geology, and the biological sciences (zoology), two; to Engineering, two; to Agriculture, two; to the following departments and groups of departments one each, viz. Botany, Political Science, Sociology, Latin, Greek, German, Romance Languages, Chemistry, Physics, Mathematics and Astronomy, Psychology, Education, Home Economics, Semitics.

To the above should be added certain endowed fellowships specially described upon following pages.

The following are regulations respecting fellowships and scholarships:

1. Any fellowship to which the present regulations apply may be held by any graduate of a college of recognized standing or by anyone whose education is equivalent to that represented by a college degree. Those about to take such a degree are eligible candidates, the regulations applying to the time of entrance upon the duties of the fellowship. Men and women are equally eligible. Preference in appointment will usually be shown to candidates who possess a competent reading knowledge of French and German.

2. Fellowships will be granted upon application only, which should be made upon a special blank form furnished by the Registrar of the University; such application, with accompanying evidence of merit, attainment, and ability, to be in the hands of the Registrar before March 1st of the collegiate year preceding that during which the fellowship is to be held.

3. All fellowships will be filled each year. Fellows may be reappointed for one additional year only.

4. Application must be accompanied by evidence of scholarship, ability, and general worthiness; such as theses (whether prepared for this or other purposes), published writings, testimonials from instructors, outline of educational course pursued, special distinctions gained and the like. Applications for reappointment should contain a full account of the work of the preceding year. Applications to receive attention must contain a definite statement of the special studies which the applicant intends to pursue.

5. Each fellow shall pursue his studies under the direction of an assigned professor or professors. Assignment of university services to the fellow shall be made by the President in consultation with the head of the department to which the fellow has been assigned, and the work assigned may be equivalent to one hour of teaching daily.

6. Vacancies in fellowships, due to resignation or other cause, may be filled as they occur, at the option of the Faculty.

Honorary Fellowships

The Regents have established honorary fellowships, equal in number to the University Fellowships, and filled in a similar way. These are restricted, however, to persons who have already held academic honors, such as fellowships or teaching or research appointments. No compensation is attached to these positions except the remission of university fees, and no teaching service is required; but to be eligible to an honorary fellowship one must be a graduate of at least one year's standing.

School of Education Fellowships

Two resident fellowships, with an annual value of $500 each, are provided in the School of Education. These fellowships are assigned by vote of the Faculty of the School of Education to graduate students who are interested primarily in the problems of teaching secondary school subjects.

The purpose of these fellowships is to encourage advanced work toward higher degrees by students who expect to take charge of special teachers courses in normal schools, colleges and universities. They are, however, open to experienced teachers preparing for work in secondary schools. The holders of these fellowships are expected to do graduate work in the departments concerned and in the Department of Education. It is expected that the research work will be under the joint supervision of the Director of the School of Education and the adviser selected in the department in which the fellowship is assigned.

Further information concerning these fellowships may be obtained from the Director of the School of Education.

Albert Markham Memorial Graduate Traveling Fellowship

In accordance with the terms of a bequest from the estate of the late Albert Markham, founder and principal of Markham Academy, Milwaukee, the Albert Markham Memorial Graduate Traveling Fellowship is offered annually in the departments of language and literature of the University of Wisconsin to holders of a Ph. D. degree, and is administered by a committee representing those departments. The annual income is approximately $800, but temporarily this may be increased to $1,000.

The major work of the appointee must lie in one of the departments of language and literature. He is expected to devote the year to foreign travel and study in foreign universities, but by special permission he may study at some other American university.

Mary M. Adams Graduate Fellowship in English

By will the late Charles Kendall Adams, formerly president of the University of Wisconsin, conveyed the larger part of his estate to the Regents of the University for the gradual establishment of fellowships in Modern History, Greek, and in the English Language and Literature. The first of these fellowships, the Mary M. Adams Graduate Fellowship in the English Language and Literature became available in the academic year 1906–07, since which time the annual amount paid to the incumbent has ranged from $500 to $550.

Charles Kendall Adams Graduate Fellowship in Greek

The second of the graduate fellowships established by the will of the late President Adams became available in the academic year 1913–14. It is called the Charles Kendall Adams Graduate Fellowship in Greek, and its value to the incumbent is approximately $550.

Charles Kendall Adams Fellowship in Modern History

The first appointment to a fellowship bearing the above title was made for the academic year 1918–19. Its value to the incumbent is approximately $550.

Working Fellowships

In certain departments of the state government provision is made for part time service to be rendered by graduate students whose university studies are in related branches of economics or political science. These positions are filled through the state Civil Service Commission to which application may be made for further information.

Graduate Scholarships

The Regents of the University maintain twenty-six graduate scholarships of the value of $250 each. Two of these are designated for Economics, one for Political Science, one for European History, one for American History, four for Agriculture, and three for Engineering. Appointments to these scholarships are in general made in the same manner as appointments to fellowships. By special provision authority is conferred upon the faculties of Beloit, Carroll, Lawrence, Milton, Milwaukee-Downer, Ripon and St. Clara Colleges to nominate annually to the Faculty of the University of Wisconsin one member of their respective senior classes as a suitable candidate for a university scholarship. Such candidates, when duly appointed by the Regents of the University, shall be in all respects upon the same footing as other university scholars.

Hollister Fellowship in Pharmacy

Mr. and Mrs. Albert H. Hollister, late of Madison, by separate wills conveyed to the Regents of the University legacies, now amounting to $10,328, for the establishment and maintenance of a fellowship in pharmacy. The annual income of this sum is allotted to a graduate student appointed upon recommendation of the Department of Pharmacy.

The Milwaukee Graduate Fellowships and Scholarships in German

Through the generosity of a number of citizens of Milwaukee interested in the promotion of advanced studies in German in the University, there have been established seven graduate fellowships in German of the annual value of $400 each and four graduate scholarships of the annual value of $200 each. These fellowships and scholarships are available for a period of five years beginning with the academic year 1917–18, except in the case of the Joseph Schneider Fellowship which has been established for a period of three years.

The following are fellowships;

The Albert F. Gallun Graduate Fellowship in German.

The Gustav Pabst Graduate Fellowship in German.

The Charles F. Pfister Graduate Fellowship in German.

The Joseph Schneider Graduate Fellowship in German.

The Charlotte Trostel Graduate Fellowship in German, established by Mr. Albert O. Trostel in memory of his mother.

The Alfred Uihlein Graduate Fellowship in German.

The Fred Vogel, Jr., Graduate Fellowship in German.

The Albert C. Elser Graduate Scholarship in German.

The Henry Schoelkopf Graduate Scholarship in German, established by Mrs. Emilie Nunnemacher and Mrs. Wm. H. Schuchardt.

The two Albert Trostel Graduate Scholarships in German, established by Mr. Albert O. Trostel in memory of his father.

Henry Gund Scholarship

Through the generosity of Mr. Henry Gund, of La Crosse, there has been established the Henry Gund Scholarship in German Literature of the annual value of approximately $250.

Other Scholarships and Fellowships Available in 1919-20

During the current year there are available the following scholarships and fellowships:

The Cutler-Hammer Manufacturing Company of Milwaukee offers $400 for a research fellowship in physics.

The Fritzsche Brothers Fellowship in Pharmacy of the value of $500 is offered by the Fritzsche Brothers of New York. The holder of this fellowship is to do research work, especially in the distilling of Monarda oil and its use in the manufacture of thymol.

The du Pont Fellowship in Chemistry of $750 is offered by E. I. duPont de Nemours and Company of Wilmington, Del.

The National Fertilizer Association of Chicago and Baltimore provides a fund of $2,000 a year for three years for an industrial fellowship in soils.

The Newport Chemical Company Fellowship of $500 is to be charged to a $1,000 fund furnished by the Newport Chemical Company.

The Newport Chemical Company graduate and undergraduate scholarships of $250 each are also to be charged to Newport Chemical Company fund of $1,000.

Two scholarships for French young women are offered, consisting of $700 each with remission of tuition fees.

The Paint Manufacturers' Association of the U. S. (Educational Bureau) offers a fellowship in genetics and agricultural chemistry of the value of $300.

The Wisconsin Gas Association provides a fund of $500 for a fellowship in gas engineering, department of chemical engineering.

The Newport Turpentine & Rosin Co. provides a fellowship in pharmacy of $500.

Omicron Nu, Home Economics honorary fraternity, offers a scholarship of $250 to a junior, senior, or graduate home economics student.

Wisconsin Legislative Scholarships

For a statement regarding these scholarships see p. 70.

Research Assistantships in the Forest Products Laboratory

In accordance with the regulations of the United States Civil Service Commission, a limited number of students who show unusual ability in research may be appointed as student research assistants by the Forest Service and Bureau of Plant Industry. The entire time of the student is given to lecture or class work in the University and to research in the Forest Products Laboratory. The salary varies from $100 to $300 a year and laboratory fees will be remitted for work in the Forest Products Laboratory. The number of students thus appointed will depend largely upon the funds available. There are also established under similar conditions two Forest Products Laboratory Fellowships. Applications for these assistantships and fellowships, accompanied by testimonials, should be sent to Director C. P. Winslow, Forest Products Laboratory, Madison, Wis., before March 1 of the collegiate year preceding that during which such appointments are to be held.

Admission to the Graduate School

Graduates from four-year courses of liberal study in any approved university or college will be admitted to the Graduate School without examination, but will not be considered as candidates for a higher degree until announcement of such candidacy has been made to the Dean of the Graduate School. Undergraduates of the University of Wisconsin who have completed all requirements for the baccalaureate degree may be admitted to the Graduate School before the degree is actually conferred. Each applicant for admission to the Graduate School should, in person, present his college diploma to the University Registrar, who will determine, provisionally, his eligibility to admission, and will furnish a statement of fees to be paid at the Bursar's office. This statement serves also as a certificate of enrollment in the Graduate School and should be presented promptly to the Dean, at Room 157, University Hall, who will issue to the student an election card for presentation to the several instructors under whom he desires to study. Students already enrolled in the Graduate School should obtain from the Dean an election card at or before the beginning of each semester.

Graduate students are invited to confer freely with the Dean of the Graduate School in all matters concerning their relations to the University.

Second Degrees

The University of Wisconsin confers the following second degrees: master of arts, master of science, master of philosophy, civil engineer, mechanical engineer, electrical engineer, chemical engineer, engineer of mines. See below for other second degrees.

These degrees are conferred in accordance with the conditions set forth below, upon graduates of the University of Wisconsin and upon graduates of other institutions of learning whose training has been substantially equivalent to that represented by the baccalaureate degree of the University of Wisconsin. The University will determine this substantial equivalence of training by such methods as seem best adapted to each case, and may impose upon any candidate such additional requirements as seem needful and just.

The degree, master of arts, is conferred upon candidates whose undergraduate work corresponds to that now leading to the degree, bachelor of arts, as conferred by the University of Wisconsin. The degree presupposes training in foreign language substantially equivalent to that required in the University of Wisconsin for the

bachelor of arts degree. The University reserves the right to test by its own methods the adequacy of such training.

The degree, master of science, connotes a considerable attainment in mathematical, physical or biological science and will be conferred only upon candidates adequately trained in this field. The undergraduate preparation should be equivalent to that leading in the University of Wisconsin to the B. S. degree or to the B. A. or Ph. B. degree with major in science. The degree, master of philosophy, is conferred upon candidates whose undergraduate training corresponds to that leading to the degree of bachelor of philosophy as conferred by the University of Wisconsin.

Candidacy for the above degrees is normally based upon resident study at the University, but provision is made whereby a measure of credit may be extended to work done *in absentia.* In no case, however, will a master's degree be conferred in course without one semester of resident graduate study at the University of Wisconsin and the equivalent of another semester's work done, under approved conditions, elsewhere.

The following regulations for the attainment of second degrees apply to all candidates in residence.

1. During a period of at least one academic year the candidate must pursue a course of graduate study characterized by definiteness of purpose and approved by the University as appropriate to that purpose and suitable in amount. Such a course includes normally for each semester assigned graduate work carrying from nine to twelve credits and at least one half of this work must lie in a single department. The undergraduate preparation of the candidate must be sufficient to satisfy the instructor that the advanced work may be profitably undertaken. Undergraduate courses of suitable character may be elected in addition to the normal amount of graduate work, provided that the recommendation of the professor in charge of the student's major and the approval of the Dean of the Graduate School be obtained in advance.

2. Students who during their candidacy for the master's degree are engaged in teaching, or other remunerative employment, will be required to devote to their studies such period longer than one year as may be designated by the Graduate Committee.

3. For students seeking to specialize in a definite line of study the preparation of a thesis may be required, and subject to the approval of the professor in charge, such thesis work may be elected by others. A typewritten copy of the completed thesis bearing the approval of the professor under whom it is taken must be filed with the Librarian of the University.

4. The candidate must sustain an oral examination upon the graduate work offered in support of his candidacy. The time and place of this examination will be determined and the examining committee appointed by the Dean of the Graduate School.

Second Degrees in Engineering

The degrees, civil engineer, mechanical engineer, electrical engineer, chemical engineer, and engineer of mines will be conferred:

(a) Upon graduates of approved institutions who have completed suitable undergraduate courses and who successfully pursue not less than one year of advanced engineering study at the University of Wisconsin, in accordance with the rules above set forth for the attainment of second degrees.

(b) Upon graduates of the College of Engineering of the University of Wisconsin who have spent three years in professional work, at least one of which must have been in a position of responsibility, and who present a satisfactory thesis.

Second Degree in Medicine

The degree of master of public health will be conferred upon graduates of approved medical colleges who satisfactorily complete one year of graduate work in sciences related to public health. For a detailed statement regarding this degree application may be made to the Registrar.

Second Degrees for Students in Professional Colleges

Graduates of approved institutions who are regularly enrolled in the professional colleges of this University may supplement their professional studies by work taken in the Graduate School. Upon the completion of an approved course of study they will be admitted to examination for the master's degree, to be conferred at the time of their graduation from the professional college. The course of study thus prescribed for the attainment of the master's degree may be expected, normally, to require one-third of the student's time for a period of two years.

Candidacy for the Master's Degree Partly in Absentia

By consent of the departments concerned, any person eligible to candidacy for a second degree, who has done satisfactory graduate work during one summer session of the University, may be admitted to candidacy for a master's degree upon the following terms:

1. The candidate must conform to all of the above regulations for candidates for the master's degree with exception of the requirement of residence at the University.

2. During a period of two consecutive years, while not in residence at the University, the candidate must pursue a course of advanced study previously arranged and approved by some department of the University and attested by a signed statement filed with the Dean of the Graduate School. See Rule 3 below. This work is designated his major study, and during two or more summer sessions, in addition to the one above named, he must pursue, at the University, work in continuation of, or collateral to, this major; for example, laboratory or seminary work in the department in which the major is taken. The *absentia* work is expected to equal in amount that normally accomplished in three summer sessions. But, experience having shown that in many cases this amount of work cannot be done within two years by teachers and other persons charged with onerous duties, the University reserves the right to impose in such cases four or more summer sessions as the minimum period of residence, with corresponding diminution of the work *in absentia*.

3. As some departments of the University do not concede the privilege of candidacy *in absentia*, the applicant for this privilege must arrange in advance with the department concerned for its approval of the proposed work and must show that he has access to adequate facilities for its prosecution. A form showing that such arrangement has been made must be completed and filed with the Dean of the Graduate School at or before the close of the first summer session of candidacy. By consent of the department and of the Dean of the Graduate School, graduates of the University of Wisconsin may enter upon the *absentia* work above prescribed, without prior residence in the Graduate School. For all other candidates residence at the University of Wisconsin for one summer session, or its equivalent, will be required as a prerequisite to approval of candidacy by this method. Continuous supervision by the University cannot, in general, be given to work done *in absentia*, and its amount and character will therefore be tested at the opening of each summer session by examination upon the ground covered *in absentia* during the preceding year.

Degree of Doctor of Public Health

The degree of doctor of public health (Dr. P. H.) is open to holders of the degree of doctor of medicine from medical schools

recognized as maintaining satisfactory standards. Candidates for the degree of Dr. P. H. must spend at least two years subsequent to the regular Medical Course in the study of sciences related to hygiene and public health. The last of these years must be spent at the University of Wisconsin and must be devoted chiefly to work upon a special subject leading to a thesis containing some original research acceptable to the Executive Committee of the Medical School. The general requirements for the degree are essentially similar to those specified for the degree of doctor of philosophy with the following exceptions:

1. The language requirements are those maintained for the B. S. degree (Medical Science Course).
2. The time requirements are as outlined above.
3. The preliminary examination of the candidate is to be conducted by and his thesis approved by the Executive Committee of the Medical School.

Doctor of Philosophy

The degree of doctor of philosophy is not conferred solely as the result of faithful study extending over any prescribed period; special attainments are required in all candidacy for this degree, particularly the power of independent investigation as shown by the production of a thesis embodying original research or creative scholarship, presented with a fair degree of literary skill. Candidacy for the degree is based upon resident graduate study normally extending over a period of not less than three academic years, at least one of which, usually the last, must be spent at this University. Candidates who are engaged in teaching or other remunerative employment will be required to devote to their candidacy such additional period in excess of three years as may be designated by the Graduate Committee.

The attention of graduate students is called to the following regulations respecting candidacy for the doctor's degree and they will be presumed cognizant of them.

1. Major Study.—Candidates for this degree are required to select a major study, which may be coextensive with the work of a department or with one of the subjects under which certain departmental announcements of courses are classified, or which may be constructed from two closely related subjects. Only in exceptional cases and with the prior approval of the Dean of the Graduate School will a major be allowed to extend beyond a single department. The courses composing the major may be divided

among several instructors, one of whom, designated as in charge of the Major Study, will act as the student's adviser in the selection and arrangement of courses constituting the major and also the minor studies defined below. The major professor will have immediate supervision of the thesis unless the Graduate Committee, upon recommendation of the department, shall otherwise direct.

2. Minor Studies.—Supplementary to his major work, the candidate must pursue one and may pursue two minor studies, which shall aggregate from one-fourth to one-third of the time spent upon his graduate studies and which shall be outside the subject of his major study. Such minors and the amount of work to be devoted to them shall be stated to the Graduate Committee for its approval at the time of admission to candidacy for the degree. See Section 3. Upon recommendation of a committee specially appointed for that purpose the Graduate Committee may modify the application of this rule to individual cases.

3. Admission to Candidacy.—Preferably nine months and at least seven months prior to the oral examination provided in Section 4, the candidate shall file with the Dean of the Graduate School his formal application to be admitted to candidacy for the doctor's degree. This application shall include the following statements:

(a) The title of his proposed thesis (subject to future verbal amendment) and the major professor's approval of such title.

(b) Certificates from the Departments of French and German of the University of Wisconsin that the candidate possesses a reading knowledge of those languages adequate for use in research in his major subject.

(c) Departmental recommendation of candidacy based upon (1) formal written examination, (2) oral examination by a duly appointed committee, (3) such other substantial test as the departments may elect. The nature of such test shall be stated in the recommendation.

(d) The scope of the proposed minors, as provided in Sec. 2, and the approval of a professor who assumes charge of each such minor.

This application shall be submitted to the Graduate Committee, which may reject it for cause, or may approve it and admit to candidacy. With reference to time requirements imposed by the University, the Graduate Committee may specify the earliest permissible date for the final oral examination provided in Section 4.

4. Oral Examinations.—Every candidate for the doctor's degree is subject to oral examination upon the general field of his major and minor studies, but such examination upon a second minor subject may be waived upon recommendation of the instructor in charge, accompanied by a certificate that the candidate has passed a special written examination adequately covering the field of such subject. The Dean of the Graduate School will appoint for each candidate an examining committee, usually composed of five persons, with the major professor as chairman, and will designate a time and place for the examination. The candidate's completed thesis shall be presented to this committee or, in lieu thereof, the major professor shall state to the committee its purpose and scope and shall certify to the committee that the work upon the thesis is substantially completed. This examination shall be open to all members of the Graduate Faculty.

5. Thesis.—At any time after admission to candidacy, the candidate may submit to the Dean of the Graduate School for approval of its mechanical form and execution, a typewritten copy of his completed thesis, provided with a title-page in form prescribed by the University and furnished by it, in blank, upon request. At any time thereafter, upon request of the major professor, the Dean shall appoint a committee of three persons, including the major professor, who shall report upon the substantial merit of the thesis. Their report, if favorable, shall be endorsed upon the thesis for publication. When so endorsed the thesis shall be filed in the University Library and shall be withdrawn therefrom only upon written authorization of the Dean of the Graduate School. In case of divided opinion among the examiners, the case shall be decided by the Graduate Committee with right of appeal to the Faculty.

6. Abstract. — At any time after approval of the thesis, the candidate may file with the Dean of the Graduate School either an abstract of the thesis, or a selected part thereof, certified by the major professor to be adequate for publication in lieu of the complete thesis.

7. Security for Publication.—After filing such abstract or selected part, the candidate shall place with the University Bursar the sum of fifty dollars as a guaranty of prompt publication of his thesis. The sum so placed shall be held in trust by the Bursar for a period of not less than one year and shall be refunded to the candidate, if during such period he shall deliver to the University Librarian the printed copies of his thesis prescribed in Section 8.

At the expiration of the period thus prescribed, if the printed copies have not been so delivered, the Dean of the Graduate School may declare such fifty dollars to be forfeited to the fund for the publication of thesis abstracts and it shall be transferred to that fund by the Bursar.

8. Publication. The successful candidate is urged to put his thesis into print as promptly as possible and to deposit one hundred copies of the same in the University Library. In the case of doctors' theses published in (1) such scholarly periodicals or society or university publications as shall be approved by the Dean of the Graduate School, or (2) in bound volumes issued and sold by well-known publishing houses approved by the Dean, the candidate may deposit in the University Library six copies of the thesis so published in lieu of the one hundred copies above described. By approval of the major professor and the Dean of the Graduate School, publication and filing of an approved part of the thesis may be accepted in satisfaction of this requirement.

9. Degree. Recommendation to the Graduate Faculty that the doctor's degree be conferred upon the candidate will be made (a) upon absolving the requirements above set forth under Sections 3, 4, 5, and 8, or (b) upon absolving the requirements of Sections 3, 4, 5, 6, and making the deposit named under Section 7.

Fees and Expenses

See pp. 62ff.

Graduate Circular

The special announcement of the Graduate School, giving detailed information concerning the School, may be obtained upon application to the Registrar of the University.

UNIVERSITY EXTENSION DIVISION

(Extra-mural College)

LOUIS E. REBER, DEAN.

Of the three main functions of a commonwealth university—(1) resident instruction, (2) research, and (3) the dissemination of the useful and assimilable knowledge which has been accumulated through productive scholarship, to all classes of citizens and in forms adapted to their requirements—the third is fulfilled in an organized way by the Extension Division.

This Division constitutes the Extra-mural College of the University, and is, therefore, one of the seven coordinate colleges of the University with a dean and a faculty of its own.

Organization

The work of the Extension Division is divided into three departments as follows:

I. Correspondence-Study.
II. Debating and Public Discussion.
III. Group and Community Service.

Field Organization

For convenience and efficiency in administration, the state is divided into districts. In a central point of each is established an office or district headquarters, over which a district representative presides. Associated with him are district and traveling instructors, who give personal assistance and instruction to students who have need of such help, or conduct class groups for those pursuing correspondence-study work where that may be desirable.

Field organizers make known the instruction and other opportunities which are made available through the Extension Division, and organize the details of the work in the field.

District Organizations

First District Office.....Milwaukee
Second District Office.....Oshkosh
Third District Office.....La Crosse
Fourth District Office.....Superior
Fifth District Office.....Wausau
Sixth District Office.....Eau Claire

Object

The object of this University in carrying on extension work is to provide the highest type of education feasible for the citizens of the commonwealth who are unable to attend established educational institutions, and to give every one in the state the opportunity to obtain the highest education possible at the smallest practical expense—to bring the University and the home into close relationship.

CORRESPONDENCE-STUDY DEPARTMENT

WILLIAM H. LIGHTY, SECRETARY AND PROFESSOR.

Purpose

For the needs of those who are unable to adjust themselves to the formal system of education, special forms of consecutive home study courses have been developed by the Correspondence-Study Department. This department offers individual instruction adapted to the special needs of students who cannot come into residence study at the University. The instruction given may be undertaken in the leisure hours of each student at his own home.

Plan and Scope

The University of Wisconsin provides, through the Correspondence-Study Department, nonresident or home-study instruction as follows:

1. Certain regular university studies which may, under approved conditions, be taken for credit toward a degree.

2. Advanced courses designed to help persons—graduates and others—in professional or practical life to keep in touch with the advancement in science and other fields of knowledge.

3. High school and preparatory studies for those for whom the conventional institutions are not available or practicable.

4. Elementary and grammar school studies for those who require such instruction for practical purposes.

5. Vocational courses prepared with reference to the needs and requirements of given occupations.

6. Guided study outlines for program material to aid various organizations in their club work.

General Benefits

Persons who are benefited by correspondence-study may be divided into two main classes: (1) those who have the taste, ability, and inclination to continue their education whether general or vocational; (2) wage-earners who cannot leave their employment in order to acquire training directed towards greater proficiency and skill.

The first class may be roughly divided into (1) those who wish to keep abreast of the advances in knowledge in their profession or business, or who wish to study purely for purposes of general culture; (2) those who wish to acquire units of credit towards a university degree; and (3) those who require preparation for entrance to the University.

The second class includes (1) those whom the necessity of earning a livelihood has taken from school before acquiring an elementary education; (2) those who have had the benefit of more or less liberal educational opportunities, but have received no training especially adapted to fit them for their chosen vocations; and (3) those who desire to change vocations and prepare themselves for employment more nearly adapted to their tastes and abilities.

This system of instruction is designed for persons carrying on their own education. It is open to nonresidents as well as to residents of the state of Wisconsin.

Method

Procedure. The student who wishes to undertake correspondence-study should first select such course or courses as he may desire to take and send for an application blank. He should fill out the blank with information called for, and return it, with the required fee, to the office of the Extension Division. The necessary textbooks, outfit, etc. may also be purchased through the Extension Division if the student so desires. Students are encouraged to

register for but one course at a time. No more than two courses may be registered for at one time unless the student can give evidence that he has several hours a day to devote to study.

THE INSTRUCTION. Upon receipt of the application and fee, the first two lessons will be sent with instructions for study, methods of preparation, and directions for returning lesson sheets and reports. Each lesson will be returned to the student with such corrections, explanations, and suggestions as may be needed. Lists of books, assignments for reading, and all necessary assistance will be furnished throughout the course, so that no student will be left without adequate aid and guidance. Questions on the subject in hand are at all times encouraged.

BY WHOM PREPARED. These courses are prepared by the members of the University Faculty, and each represents a definite amount of work equivalent to similar work done in residence at the University, or in standardized schools.

THE UNIT COURSE. The unit course is divided, where practicable, into forty weekly assignments. Such a course represents at least an amount of work equal to that done in residence at the University in a full five recitation-hour study a week for one semester, or half year. It is assumed that this work may be done by the average student in forty weeks on a minimum leisure for study of one hour a day, six days in the week. It is, however, the student's privilege to pursue his studies as rapidly as he is able.

THE LESSON. The unit course is divided into assignments. In some courses this may call for but a single report but in others the assignment is divided into two or more lessons. In all cases the assignment represents an average week's work, and not an evening's work as at school.

PERMANENCE. The department endeavors to make its work thorough and permanent and the various courses have been arranged in coordination with the regular residence work, the short courses, and the summer session.

EXAMINATIONS. Examinations are optional with the student, but are required where credits or certificates are sought. These examinations must be taken at the University, or under conditions approved by the University.

REGULATIONS. 1. Students may begin correspondence courses at any time during the year.

2. For admission to the Correspondence-Study Department no preliminary examination is required. The student is required to fill

out an application blank, giving such information as may be helpful in adapting the instruction to the personal needs of each student.

3. Students who undertake correspondence-study work for university credit must state this fact in advance and comply with all the requirements of the University.

4. For the benefit of the department it is desired that the applicant state fully the purpose he has in view in taking the work, and also in detail such educational advantages, training, or experience as he may have had. The department endeavors to meet the needs of the individual student by advice and suggestion, as well as by formal instruction, but whenever it finds that the course elected is not for the best interests of the student, it reserves the right to reject the application, or to advise a change to another course.

5. Correspondence students enrolled in a course (or courses) comprising twenty assignments or less, not involving credit towards a university degree, are allowed twelve months from the date of registration to complete the work. For longer courses a proportionately longer time is allowed. Correspondence students who are candidates for credit towards a degree are expected to complete one course of forty assignments or less within twelve months, two courses within fifteen months, three courses within eighteen months, from the date of registration.

6. No fee is refunded because of a student's inability to enter upon or pursue a course for which he has once registered. If an application for instruction is rejected the fee is returned.

7. The fee for a full unit course of forty assignments is only twenty dollars. When the student registers for more than one unit course he receives a discount of twenty-five per cent upon the amount of the fees in excess of twenty dollars. These fees are deliberately put upon the lowest operating basis.

Laboratory Work

Provision is made in connection with many correspondence courses, both in the advanced grade and in the vocational studies, by which laboratory practice forms a part of the instruction. In some courses laboratory outfits are sent to the student from the University to be set up in his own home. In other cases special arrangements are made for short periods of laboratory practice at Madison. In some studies local branch laboratories are established where local students may receive special instruction as the correspondence course proceeds.

University Credit

1. Persons who have had the required preparation for admission to the University will, upon satisfactory completion of a correspondence-study course designed for credit, be awarded a certificate of credit in the University.

2. The maximum credit granted for work done by correspondence-study, however, may not exceed one-half the unit hours required for graduation.

3. At the completion of each correspondence-study course for university credit, the student shall pass an examination held under the direction of the instructor giving such course, or by some one designated by the University for that purpose.

4. Work taken for credit may not be done by any student while in attendance at any institution of learning.

5. In special cases credit may be allowed for correspondence-study courses of preparatory grade to satisfy partial entrance requirements to the University.

6. Credit to an amount not exceeding one-fourth of the unit hours required for graduation may be given at the University of Wisconsin to students of such other correspondence schools or departments as may be designated by the University of Wisconsin. It is, however, required that such credits shall be subject to the same provisions as are made in the University of Wisconsin, and subject to the action of the accredited schools committee, or the advanced standing committee, as the case may require.

7. Credit records of correspondence-study work are filed in the University Extension office until the student has satisfactorily completed one year of study in residence. When all the requirements are satisfied, the correspondence-study records may be transferred to the Registrar's office and applied toward graduation.

8. All courses offered by the Correspondence-Study Department, whether taken for university credit or not, are on a uniform basis in reference to the amount of work covered. Courses which are satisfactorily completed have, therefore, a definite value, and all students who successfully complete such courses will be awarded certificates of the grade in which the work is taken.

Correspondence-Study Courses

Courses marked with an asterisk (*) involve university credit. Full information on any of the correspondence-study courses is supplied on request.

Astronomy—Popular Astronomy (C. 1).

Botany—Description and Classification of Flowering Plants* (C. 1); General Botany* (C. 11); Morphology of Seed Plants* (C. 12); General Morphology of Algae* (C. 2); General Morphology of Fungi* (C. 3); Plant Histology* (C. 5); Morphology of Mosses and Ferns* (C. 4); Drug and Food Products* (C. 7); Trees and Shrubs* (C. 8); Elementary Botany (C. 21).

Business—Complete Course, Business Organization and Management (C. 142–155); General Organization of Business (C. 142–144); Types of Business Organizations (C. 145–150); Industrial Management (C. 151–152); Marketing Methods (C. 153–155); Bookkeeping (C. 128); Accounting Practice (C. 128B); Accounting Principles (C. 129); Cost Accounting (C. 136); Bookkeeping and Cost Finding for Printers (C. 130A); Municipal Accounting (C. 134); Advanced Accounting Problems (C. 135); Federal Income Tax (C. 132); State Income Tax (C. 132B); Auditing (C. 137); Contracts (C. 115); Sales (C. 118); Commercial Paper (C. 122); Private Corporations (C. 124); Insurance (C. 198); Show-Card Writing (C. 5); Retail Selling and Store Management (C. 159); Retail Selling (C. 159A); Retail Advertising (C. 191A); Practical Banking (C. 186A); Banking Law (C. 186B); Elementary Banking (C. 186C); Commercial Correspondence (C. 102); The General Secretary (C. 103); Commercial Geography of the United States* (C. 114).

Chemistry—Elementary Chemistry* (C. 1); Qualitative Analysis* (C. 2).

Drawing, Mechanical—Shop Sketching (C. 203); Shop Drawing (C. 204A); Shop Drawing (C. 204B); Mechanical Drawing (C. 204S); Principles of Architectural Drawing (C. 243A); Architectural Design (C. 243B); Sheet Metal Drafting (C. 205A); Advanced Sheet Metal Drafting (C. 205B); Sheet Metal Layout (C. 205C); Elements of Drawing* (C. 1); Elements of Drawing* (C. 2); Descriptive Geometry* (C. 3); Freehand Lettering (C. 4); Show-Card Writing (C. 5).

Economics—Elements of Economics* (C. 1); The Labor Movement* (C. 2); Transportation* (C. 3); Socialism* (C. 4); Economics of Saving and Investment (C. 5); Commercial Geography* (C. 7); Elements of Money and Banking* (C. 10); Brief Course in Money and Banking (C. 10A); Practical Banking (C. 186A); Banking Law (C. 186B); Elementary Banking (C. 186C); Social Psychology* (C. 15); General Sociology* (C. 16); Practical Sociology* (C. 17); Criminology and Penology* (C. 18).

Education—Principles of Teaching* (C. 1); Development of Childhood and Youth* (C. 2); Educational Psychology* (C. 3); The Child and Elementary Education (C. 4); Child Nature and Training (C. 5); History of Modern Education* (C. 6); Social Development and Education* (C. 51); Advanced Educational Psychology* (C. 61); History of American Education* (C. 71); High School Organization and Curriculum* (C. 85); Conferences on Teaching Problems* (C. 91).

Engineering, Civil and Structural—Elements of Mechanics (C. 406); Strength of Materials (C. 407); Elements of Structures. A (C. 408); Elements of Structures. B (C. 409); Roof Trusses (C. 410); Plate Girders (C. 411); Stresses in Bridge Trusses (C. 412); Design of Railway Bridge Trusses (C. 413); Reinforced Concrete Construction (C. 418A); Reinforced Concrete Construction (C. 418B); Reinforced Concrete Construction (C. 418C); Steel Building Construction (C. 421); Practical Course in Concrete (C. 430); Structural Steel Drafting and Elementary Design (C. 431); Introductory to Structural Steel Drafting (C. 431A and B); Elementary Steel Design (C. 431C); Steel Designing and Detailing (C. 431 D); Surveying; Hydraulics (C. 281); Railway Engineering* (C. 1); Stresses in Simple Structures* (C. 2); Design of Roof Trusses and Plate Girders* (C. 3); Design of Railway Bridge Trusses* (C. 4); Principles of Reinforced Concrete* (C. 105); Concrete Arches* (C. 106); Principles of Reinforced Concrete* (C. 111).

Engineering, Electrical—Mathematics (C. 301, Parts I and II); Elementary Magnetism and Electricity (C. 310); Advanced Electricity and Magnetism (C. 310S); Theory and Operation of Direct-Current Machinery (C. 311); Principles of Direct-Current Machines (Advanced) (C. 311S); The Theory of Alternating Currents (C. 312); Alternating-Current Machinery (C. 313); Electric Lamps and Illumination (C. 314); Central Electric Stations (C. 316); Electric Power Transmission (C. 317); Telephony (C. 318, Parts A, B, and C); Commercial Electrical Measuring Instruments (C. 319); Watthour Meters (C. 319A); Electric Railways (C. 321); Storage Batteries (C. 322); Electric Central Station Distribution Systems (C. 323); Electric Wiring (C. 324); Principles of Radiotelegraphy (C. 329); Electrical Engineering Mathematics (C. 330).

Engineering, Mechanical—Shop Arithmetic (C. 201A); Advanced Shop Mathematics (C. 201 B); Mechanical Drawing; Sheet Metal Drafting;

Statics; Dynamics; Elements of Mechanics (C. 206); Strength of Materials (C. 207); Mechanism (C. 208); Elements of Machine Design (C. 209A); Elements of Machine Design (C. 209B); Advanced Machine Design (C. 210); Practical Hand Firing (C. 213); Principles of Steam Engineering (C. 214); Heat (C. 215); Boilers (C. 216); Steam Engines (C. 217); Gas and Oil Engines (C. 219A); Gas Producers (C. 219B); Gas Engine Design (C. 219C); The Gasoline Automobile (C. 219D); Gas Engine Ignition (C. 219E); Refrigeration (C. 222); Compression System of Refrigeration (C. 222A); Heating and Ventilating (C. 223); Compressed Air (C. 225); Fuels (C. 231); Heating and Ventilating Public Buildings (C. 234); Principles and Practice of Plumbing (C. 235); Carpenters' and Builders' Arithmetic (C. 241); Lumber and Its Uses (C. 242); Kiln Drying of Lumber (C. 242A); Principles of Architectural Drawing (C. 243A); Advanced Architectural Drawing (C. 243B); Cupola Practice (C. 272); Foundry Metallurgy (C. 274); Hydraulics (C. 281).

English—Elementary English (C. 1); English Grammar (C. 61); Practical English Review (C. 64); Intermediate English Composition (C. 2, Parts I and II); High School English Classics (C. 3); English Composition. A* (C. 5); English Composition B* (C. 6); Composition of Technical Papers* (C. 8); Advanced Composition* (C. 7); The Short Story* (C. 16); General Survey of English Literature. A* (C. 51); General Survey of English Literature. B* (C.52); General Survey of American Poetry* (C. 31); Shakespeare* (C. 17A); Shakespeare* (C. 17B); The Poetry of Tennyson* (C. 18); The Poetry of Browning* (C 19); The English Novel in the Nineteenth Century* (C. 25); The Teaching of English* (C. 4); Modern Drama* (C. 35 A); Modern Drama* (C. 35B); Ancient Classical Drama in English* (Greek C. 113B); Review of English Grammar and Composition (C. 63); Review of American Literature (C. 81); Review of English Literature (C. 91).

French—Elementary French* (C. 1); Elementary French* (C. 2); Intermediate French* (C. 3); Intermediate French* (C. 3A); Intermediate French* (C. 4); Technical French* (C. 5); Elementary French Composition* (C. 6); Advanced French Composition* (C. 7); Modern French Dramatists* (C. 8); Modern French Novelists* (C. 9); General Survey of French Literature* (C. 10).

Geology and Geography—Mineralogy* (C. 1); Economic Geology* (C. 2); Physical Geography* (C. 3); Elementary Geology* (C. 4); Geography of South America (C. 11); Geography of Europe (C. 16).

German—Elementary German. A* (C. 1); Elementary German. B* (C. 2); Intermediate German. A* (C. 3); Intermediate German. B* (C. 4); Scientific German.* (C. 6); Commercial German* (C. 7); Critical German Prose* (C. 8); Grammar Review* (C. 9); German Composition* (C 12); Elementary Teachers' Course (C. 19); Advanced Teachers' Course* (C. 20); Modern German Dramatists* (C. 25); Modern German Novelists* (C. 26); Schiller* (C. 22); Goethe* (C. 21); Goethe's Faust* (C. 29); History of German Literature* (C. 30, Parts I and II); History of German Language* (C. 31); Middle High German* (C. 32).

Greek—Elementary Greek* (C. 1); Xenophon's Anabasis* (C. 2); Xenophon's Anabasis* (C. 2A); Homer's Iliad* (C. 3); Greek Composition* (C. 6A); Greek Composition* (C. 6B); Ancient Classical Drama in English* (C. 113B.)

Health—Study of the Human Body (C. 6); The Prospective Mother (C. 7); The Child in Health (C. 8); The Child in Disease (C. 9); Local Health Officers' Work (C. 20).

Hebrew—Elementary Hebrew (C. 1); Elementary Hebrew (C. 2).

History—United States History (C. 1); American History 1760–1830* (C. 2); English History* (C. 6A); English History* (C. 6B); Modern European History* Part I (C. 8A); Modern European History* Part II (C. 8B); Medieval History* (C. 12A); Medieval History* (C. 12B); Oriental and Greek History* (C. 20); Roman History* (C. 21); United States History Review (C. 67); English History Review (C. 89).

Home Economics—Food Study for the Housekeeper (C. 1); Planning the Family Dietary (C. 2); Dietetics (C. 3); The House and Its Equipment (C. 4); Spending the Income (C. 5); Prevention of Disease and Home Care of the Sick (C. 6); The Prospective Mother (C. 7); The Child in Health (C. 8); The Child in Disease (C. 9); Sewing (C. 10); Study of Fabrics (C. 11); Muslin Garments (C. 12); Dressmaking and Designing (C. 13); Dressmaking (C. 13A); Infants' Clothes (C. 14); Home Furnishing and Decoration (C. 15); Feeding Children for Health and Growth (C. 16); The House and Its Management* (C. 19); Food and Nutrition* (C. 20); Applied Design* (C. 21); Cooking for Rural Schools (C. 25); Sewing (C. 26); Cooking and Sewing (C. 27A); Cooking and Sewing (C. 27B).

Italian—Elements of Italian* (C. 1); Elementary Italian* (C. 2).

Latin—Elementary Latin (C. 1); Caesar (C. 2); Cicero (C. 3); Vergil's Aeneid (C. 4); Advanced Prose Composition* (C. 6A); Advanced Prose Composition* (C. 6B); Livy *(C. 7); Cicero: De Senectute* (C. 10); Terence: Andria and Phormio* (C. 12); Horace: Odes* (C. 14); Horace: Epistles and Satires*(C. 15); Catullus* (C 16); Cicero: Letters* (C. 20); Ancient Classical Drama in English* (Greek, C. 113B).

Library Methods—Library Methods for Teacher Librarians (C. 1).

Manual Arts—History and Literature of Manual Arts* (C. 1); Teaching and Supervision of Manual Arts* (C. 2, Parts A and B); Organization of Manual and Industrial Arts* (C. 3); Vocational Education and Vocational Guidance* (C. 4).

Mathematics—Elementary Algebra (C. 1, Parts A and B); Plane Geometry (C. 3); Solid Geometry (C. 4); Plane Trigonometry* (C. 5); University Algebra* (C. 6); Analytic Geometry* (C. 7); Elementary Calculus* (C. 8); Agricultural Mathematics* (C. 51); Commercial Arithmetic (C. 55); Commercial Algebra* (C. 56); Mathematics of Life Insurance* (C. 57); Advanced Calculus* (C. 65); Differential Equations* (C. 66); Theoretical Mechanics* (C. 67); Higher Algebra* (C. 68); Algebra for Engineers (C. 40); Elementary Analysis* (C. 41); Elementary Analysis* (C. 42); Elementary Analysis* (C. 43); Differential Calculus* (C. 44); Calculus* (C. 45); Calculus* (C. 46); Practical Arithmetic (C. 11); Mensuration and Practical Geometry (C. 12); Practical Algebra (C. 13); Practical Trigonometry (C. 14); Practical Calculus (C. 15); Shop Mathematics; Elementary Algebra (C. 62).

Mechanics—Statics (C. 1); Dynamics (C. 2).

Meteorology—Elementary Meteorology* (C. 1); Climatology* (C. 2).

Music—Theory of Music (C. 1c); Public School Music* (C. 31c); History of Music* (C. 75c); Elementary Harmony* (C. 5c); Advanced Harmony* (C. 61c); Community Music and Drama* (C. 97c).

Pharmacy—Pharmacy* (C. 1, Parts A and B); Elementary Prescription Practice* (C. 20A); Prescription Practice, Liquid Preparations* (C. 20B); Solid Preparations* (C. 20C); Advanced* (C. 21A); Advanced* (C. 21B); Advanced* (C. 21C); Prescription Incompatibility* (C. 21D); Pharmaceutical Technology, Liquid Preparations* (C. 22A); Solid Preparations* (C. 22B); Alkaloidal Assay* (C. 23A); General Chemistry, Part A* (C. 3); Inorganic Preparations* (C. 5); Qualitative Analysis* (C. 12); Morphology and Classification of Flowering Plants* (C. 10); Plant Histology* (C. 15); Drug Assaying* (C. 30); Physiological Chemistry* (C. 35); Pharmaceutical Chemical Analysis* (C. 40); Microscopical Examination of Food Products* (C. 45);Microscopical Examination of Drugs* (C. 46); Pharmacology* (C. 50); Toxicology* (C. 51);

Philosophy—General Psychology* (C. 1); Ethics* (C. 10); Business Ethics* (C. 12).

Physics—Elementary Physics (C. 1); Physics Review (C. 87); Physics, University* (C. 5); Physics, University* (C. 6); Physics, Engineering* (C. 51E); Physics, Engineering* (C. 52E).

Political Science—American Government and Politics* (C. 1); The American Judiciary* (C. 1A); The American Executive and Executive Methods* (C. 1B); Party Organization and Management* (C. 3); American Legislatures and Legislative Methods* (C. 3A); American Diplomacy* (C. 4A); American Constitutional Law* (C. 5A); International Law of Peace* (C. 5B); International Law of War* (C. 5C); Municipal Government in Europe and the United States* (C. 10); American Municipal and Civic Progress* (C. 6); Voting Methods and Elections (C. 15).

Public Speaking—Elementary Speech Writing (C. 1); Composition of Public Addresses* (C. 10); Argumentation* (C. 12); Correction of Speech Defects* (C. 21); Voice Training and the Elimination of Vocal Defects (C. 22).

Railway Engineering—Railway Curves (C. 1).

Roads and Pavements—Roads and Pavements (C. 501); Rural Highway Work (C. 502).

Spanish—Elementary Spanish* (C. 1); Elementary Spanish* ((C. 2); Intermediate Spanish. A* (C. 3); Intermediate Spanish. B* (C. 4); Don Quijote* Part I (C. 7); Don Quijote* Part II (C. 8).

Surveying—Plain and Topographical Surveying (C. 441).

Teachers' Review Courses—Grammar and Elementary Composition (C. 63); Geography (C. 65); United States History (C. 67); Civil Government (C. 69); Physiology and Hygiene (C. 71); School Management (C. 73); Physical Geography (C.77); American Literature (C. 81); Cataloguing and Use of the School Library (C. 83); Elementary Algebra (C. 62); Physics (C. 87); English Literature (C. 91); English History (C. 89).

DEPARTMENT OF DEBATING AND PUBLIC DISCUSSION

ALMERE L. SCOTT, SECRETARY.

Purpose

For the assistance and instruction of citizens who are interested in important social, educational, and political problems, the Department of Debating and Public Discussion fosters forum activities for deliberative study and discussion.

Inasmuch as the intelligent and active interest in and study of these questions among all classes of people tend essentially to the making of good citizens, the department issues suggestive and guiding bulletins, collects and maintains a loan library available through parcel post, and keeps in close touch through correspondence and personal interviews with community centers, civic clubs, farmers' clubs, women's and business men's organizations, parent-teacher associations, school and library boards, and literary societies of educational institutions.

Bulletins

Several compact and useful guides have been issued as aids to debaters, including Debating Societies—Organization and Procedure; Principles of Effective Debating; How to Judge a Debate: Triangular Debating Leagues; and School Literary Societies. As special aids to organizations, bulletins on Farmers' Clubs, Civic Clubs, and Parent-Teacher Associations have been published. The Triangular Discussion League bulletin suggests a plan to encourage the study and the intelligent discussion of great current problems not suited to a two-sided contest, but rather suited to a general discussion which brings out the many sides and salient facts.

FORMULATED QUESTIONS. The bulletins which formulate subjects for debate, giving brief historical facts and arguments, concluding with a selected, classified bibliography, serve as an impetus to careful study and have proved helpful and time-saving. Such questions as the following have been thus presented. Annexation of Cuba and Independence of the Philippines; Closed vs. Open Shop; Commission Plan of City Government; Initiative and Referendum; Municipal Home Rule; and The Recall. These publications are sent free upon request to Wisconsin citizens, and upon receipt of list price, outside of the state.

Loan of Material

The loan package libraries include selected newspaper and periodical clippings, office bound sections of periodicals, government documents, publications of organizations, copies of addresses, reprints, typewritten excerpts, books—in fact all forms of carefully selected available material dealing in a fair and balanced manner with the different phases of worth while subjects. This service is restricted to residents of Wisconsin. In order that material may be selected judiciously, it is essential that the request for a package library state definitely the purpose for which the information is desired, and the latest date upon which it would prove of value. The same material cannot be used to the best advantage by a rural school pupil and a member of a woman's club.

The department aims to cooperate in every possible way with local librarians. Requests from communities which have public libraries should state what is available locally, thus avoiding unnecessary duplication and expense.

DEPARTMENT OF GROUP AND COMMUNITY SERVICE

WILLIS WISLER, ACTING SECRETARY.

Purpose

The Department of Group and Community Service is composed of bureaus which deal with the informal or non-consecutive type of service as distinguished from the more formal and systematic types of instruction. These bureaus are concerned with questions and problems of general interest and public welfare and are grouped under one secretary with the cooperation of appropriate faculty committees and bureau heads.

The department serves as a clearing house through which all reasonable inquiries of the people of the state on general matters may receive consideration.

Method

The department seeks to serve the individual inquirer, the group, and the community, in establishing contact with specific lines of information, through the accumulation of data and a digestion of such data for presentation in non-technical form, from such widely diverse sources as the reports of government bureaus, commis-

sions, and experimental stations; the proceedings of scientific societies; publications of an economic, a social, a political, and an ethical character.

To meet the need for constructive, sustained, and technical assistance in the several fields of welfare work, the following bureaus, each in charge of an expert, are available: Bureau of Instruction by Lectures, Bureau of Municipal Information, Bureau of Visual Instruction, Bureau of Community Development, Bureau of Commercial and Industrial Relations, and Bureau of Health.

Publications

The Department of Group and Community Service issues from time to time bulletins on subjects of timely interest. These are free to residents of the state of Wisconsin.

Exhibits

In addition to the specific lines of activity included within the fields of the various bureaus, the Department of Group and Community Service has found the use of traveling exhibits and demonstrations upon such subjects as child welfare, health, recreation, and community center work of very great value. The department expects to continue this form of service, suiting the type of exhibit and demonstration to the new needs of the after-war period.

Social Service Institutes

Before the war, the Extension Division had already demonstrated the success of the Social Service Institute which aimed to provide opportunity for the intensive study of local problems of social service. The greatly increased interest in all such problems, as a result of the war, makes it desirable for the Department of Group and Community Service to do even more extensive work in this field. Through the Social Service Institute the communities of Wisconsin may utilize the expert service of the University for the study of special questions and for the crystallization of public opinion in favor of the correct solution of these questions.

BUREAU OF INSTRUCTION BY LECTURES

Purpose

For instruction and platform inspiration in communities where the lyceum need exists the Bureau of Instruction by Lectures organizes and supplies local programs.

Scope of Service

The University offers through this department: (1) single lectures or series of such lectures; (2) lecture, concert, recital, or reading programs or a miscellaneous combination of these. Such programs are offered with the definite purpose of developing better taste and higher standards with reference to public entertainments, and an appreciation of art, music, and literature by presenting examples.

LECTURES. The field covered by the lecture courses is a wide one, including topics in education, history, geography and travel, political economy, political science, sociology, business administration, the history and literature of ancient and modern peoples, including Greek and Roman, Scandinavian, German, French, and English life and letters, the physical sciences, engineering branches, forestry and physical training. The bulletins containing details of information will be sent on request.

TEACHERS' CONVENTIONS AND INSTITUTES. The Extension Division will provide speakers for these meetings as far as the regular work of the University will permit.

COMMENCEMENT ADDRESSES. This department arranges for commencement addresses to be delivered by members of the university staff and others available in this service. The charges will be arranged in each case for the speaker desired through the Extension Division.

SPECIAL OCCASION LECTURES. This department furnishes speakers for special occasions, such as memorial and dedication exercises, convocation addresses in schools, commercial organizations, and civic and women's clubs.

Expenses

LOCAL EXPENSES. These include hall rent and advertising in the local papers, and the lantern and operator, where the lecture is illustrated.

UNIVERSITY CHARGES—LECTURERS' FEES. Full information concerning lecturers' fees will be supplied on application.

BUREAU OF MUNICIPAL INFORMATION

To meet the need for information in the important field of municipal government, information which is difficult to obtain and hard to keep up to date, a Bureau of Municipal Information is maintained

for the service of the cities of the state. It collects and furnishes technical information on all subjects of municipal organization and administration, public works, public utilities and public service rates, commission and city manager government, home rule, civic organizations, and gives also information on municipal employment, paving, parks and playgrounds, housing, dust prevention, smoke abatement, city planning, civic centers, art commissions, care of city trees, schools, accounting methods, comparative statistics, and other subjects of municipal interest. The bureau collects and maintains a file of charters, ordinances, and official publications of the principal cities of the United States. It has correspondents in most of the American cities, and in this way is able to furnish information as to which cities have passed an ordinance of any type, for instance a milk ordinance, or a wheel tax ordinance; to present data as to the efficiency of different types of ordinances; and, if desired, to lend copies of particular enactments. It can tell how boards of public works are organized in various cities, how school boards are constituted, or how street sprinkling or street repairs are paid for. In short, it aims to be a clearing house for municipal experiments and experiences.

BUREAU OF VISUAL INSTRUCTION

For several years the Extension Division has lent educational lantern slides, motion picture films, charts, exhibits, and other illustrative material to schools and other institutions and organizations. This service is organized into the Bureau of Visual Instruction, which is making a thorough and systematic study of materials that may be used in illustrative teaching, or in instruction through the medium of the eye, and placing such materials within easy and constant reach of all schools and other civic organizations of the state. The bureau has a carefully selected collection of approximately 2,000 reels of film and 75,000 slides to be lent to schools for use in class work and for community gatherings. During the year 1918–1919 ten circuits were established on which the material was routed weekly to 175 schools which applied for regular service for 24 weeks in succession. In addition service was given frequently to schools and civic organizations not in circuits.

BUREAU OF COMMUNITY DEVELOPMENT

The Bureau of Community Development is designed to give instruction and guidance on community problems and advancement.

It does this by correspondence, demonstration, conference of experts, speakers, and the promotion of community enterprises, such as community music and drama, pageants, festivals, and celebrations.

The use of public buildings for such activities, especially a wider use of the school plant, is encouraged. While the community center movement is already well established in Wisconsin, the peculiar need at this time for a greatly increased development along this line is necessary because of the social and economic changes through which the country is passing. The real approach to the problem of Americanization is through a better socialized community spirit.

The Bureau of Community Development is prepared to make suggestions and assist in the formulation of programs calculated to unify community life.

BUREAU OF COMMERCIAL AND INDUSTRIAL RELATIONS

The rapidly increasing interest in the question of industrial relations has necessitated the establishment of a bureau of Commercial and Industrial Relations. This bureau is designed to find and collect information on the problems of commercial and industrial relations; to supply unbiased information on these problems; and to stimulate interest in the correct solution of all questions of mutual interest to employer and employe.

BUREAU OF HEALTH

The Health Instruction Bureau was established for the purpose of recasting into popular form scientific knowledge regarding the prevention and cure of disease. News health items are widely disseminated throughout the state, and exhibits, lectures, and correspondence-study courses are doing their work of educating the public in measures of prevention, care, and cure. The bureau undertakes to translate and make available the knowledge of the scientific departments through the main channels indicated. For this purpose it maintains a close relationship with a number of extra-mural and federal departments and organizations from, and in cooperation with, which information is secured and disseminated.

SCHOOL OF MUSIC

CHARLES H. MILLS, DIRECTOR, PROFESSOR OF MUSIC.

General Announcement

The School of Music offers the following courses: a four-year course leading to the degree of Bachelor of Music; a two-year course leading to the certificate of Supervisor of Public School Music.

Individual instruction in vocal or instrumental music may be taken by students not otherwise connected with the University, and such students are not required to pay the incidental fee required of all university students, but they must be able to satisfy the usual entrance requirements. See pp. 384ff.

Special students under twenty-one years of age, who have unusual musical talent, may, in exceptional cases, be admitted to the School of Music on the recommendation of the Faculty of the School although they may not be able to satisfy fully the entrance requirements.

Students wishing to enter the School of Music will apply to the Registrar, Room 158, University Hall.

Students enrolled in other schools and colleges of the University are allowed to include among their electives, credits in the School of Music not to exceed twenty. Of these, ten credits may be taken by juniors and seniors in advanced instruction in applied music after the approval of their adviser and of the Director of the School of Music has been secured.

A detailed statement of musical courses will be found under Music in the College of Letters and Science.

Course of Study Leading to the Degree of Bachelor of Music

PROFESSOR MILLS, CHAIRMAN.

The School of Music offers a four-year course in music leading to the degree of Bachelor of Music. In this course the candidate may choose his major in one of the following departments: Applied Music; History and Theory; General Teaching; Public School Music.

N. B. Freshmen and sophomores may take work in applied music but receive no credit.

Musical Requirements for Entrance

Organ

No previous knowledge of organ playing is required, but a student will not be enrolled until he has acquired a satisfactory pianoforte technique and some skill in polyphonic playing.

Piano

Applicants for admission will be required to play music of the following grade or its equivalent: easier sonatas by Haydn and Mozart, Czerny, Op. 299, books I and II, Heller, Op. 47, easier Songs without Words by Mendelssohn. Some knowledge of major and minor scales is necessary.

Voice

The student must be able to read simple music and must have had an amount of training equal to the first half of Concone, with the usual technical study for the same period.

Violin

Candidates must be well grounded in correct position, intonation, tone, and bowing, and must have mastered the equivalent of David's Violin School, Part I, and the easier pieces of Dancla, Alard, and others.

Courses of Instruction

Freshman	Credits
Music 81-2-3-4, Applied	2
Music 1, Harmony	3
Music 71, Solfeggi	0
Letters and Science	
Foreign Language	4
English	3
History	3
Total	15

Sophomore	Credits
Music 81-2-3-4, Applied	2
Music, 65, Appreciation	1
Music 75, Solfeggi	1
Music 11, Harmony	3
Music, Electives	3
Letters and Science	
Foreign Language	4–3
English or History	2–3
Total	15–16

Junior	
Music 21, Counterpoint	2
Music 31, History	2
Music, Prescribed electives	5
Letters and Science	
*Electives	3
Electives	3
Total	15

Senior	
Music 100, Thesis, or Music 100, Recital	2
Music, Prescribed electives	4
Music, Free electives	3
Letters and Science	
**Electives	6
Total	15

* Psychology and Education, three credits required for students registered in the School of Education.

** Physics 1 including accoustics by arrangement with Department of Physics.

Prescribed Electives	
Advanced Harmony, Music 102	
Advanced Counterpoint, Music 112	
Canon and Fugue, Music 122	
Ensemble Music 85 and 86	
Selection and Interpretation of Materials Music 78	
Applied Music 81–2–3–4	
Pedagogical subjects	
Practical Instrumentation Music 89	
The maximum credits for students n individual instruction in Applied music will be 16.	
Music total	66
Letters and Science	54 or 56
Total	120†

All candidates for the degree of Bachelor of Music are required to pursue their studies in accordance with the above schedule.

Voice students are subject to the following exceptions: First, membership in the Choral Union is obligatory, unless excused by the director. Second, at least two years of pianoforte study are required in addition to the prescribed work in voice, but the second year of pianoforte study is substituted for elective in the second year.

Organ students are subject to the following exception: Those not sufficiently advanced may be required to take work in pianoforte during the first and second years, this to be decided by the instructor and the director.

Violin students are required to take two years of pianoforte study in addition to the prescribed work in violin, and may substitute those credits for electives.

There is opportunity for a liberal choice of electives in addition to the required studies enumerated above. These may be chosen from other courses offered by the School of Music, or by other departments of instruction in the University on consultation with the director or an adviser appointed by him.

Students must prove their efficiency before their graduation either by giving a recital or writing a thesis on a given topic. Students are allowed a choice of these alternatives on consultation with the director or an advisor appointed by him. Two credits are allowed for either recital or thesis. The latter is subject to the usual regulations.

Course for Supervisors of Music in Schools

PROFESSOR DYKEMA (CHAIRMAN)

This is a two or three year course designed for those who wish to fit themselves for the supervision of music in the public schools.

A Supervisor of Music Certificate is granted on the completion of the course. Students expecting to proceed to the degree of bachelor of arts must satisfy the requirements for that degree.

† The same number of grade points is also required.

Students regularly enrolled in the Supervisors' Course will be allowed credit for work in pianoforte, violin and voice culture, under the provisions of electives.

Students who, upon entering, do not show suitable proficiency in pianoforte playing or singing (voice culture) will be required to take instruction in one or both at the discretion of the director and the chairman of the Department of Public School Music.

Students are required to take from 14 to 16 hours per week in recitations, lectures, etc., making 62 credits for the course.

Unless excused by the Director, membership in the Choral Union is obligatory, and is not counted as an elective credit.

In the second year not later than June 1, all candidates for graduation must submit an original outline covering one of the standard textbook series. This work is subject to the regulations under Theses. See p. 108.

The required work is as follows:

First Year	Credits
Music 41 and 42, Methods and Practice	4
Music, 1, Harmony	3
Music 71, Solfeggi	1
Music 65, Appreciation	1
Music 81 or 82, Applied Music	1
Music 89, Practical Instrumentation	1
Music 77, Choral Union	0
Letters and Science	
Education 44	1
English 1	3
Physical Education 6	0
	15

Second Year	Credits
Music 51 and 52, Methods and Practice	4
Music 11, Harmony	3
Music 75, Solfeggi	1
Music 31, History	2
Music 77, Choral Union	0
Letters and Science	
*†Electives	6
Physical Education	0
	16

Special State Certificate

Students satisfactorily completing the two-year course for Supervisors of Music will be entitled to a recommendation to the State Board of Examiners to receive a special state license to teach music in the public schools of the state. This recommendation will be issued by the Director of the School of Education (Prof. V. A. C. Henmon, University Hall, 217), providing:

(a) That the student registers in the School of Education not later than December 1 of the first year of residence:

* Psychology and education, 3 credits, required for students registered in the School of Education.

† The following courses are recommended as electives: Astronomy 1, Biology 1, Chemistry 1, Education 113, Fine Arts 122, French 1a, 1b, 10, Geology 1, 3, 4, German 1a, 2b, 3, 14, Greek 1a, History 1, 5, 10, Italian 1, Latin 1 and 6, Mathematics 1 and 2, Physics 1, Psychology 1. (Courses in home economics may not be elected by second year students expecting to proceed to a baccalaureate degree.)

(b) That the student has earned the following credits as electives: Philosophy 1 (psychology), three credits; choice of the following three-fifths subjects: Education 1 (History of Modern Education), Education 6 (Public Education), Education 11 (Mental Development), Education 41 (Educational Psychology).

(c) That the student presents a statement from the Director of the School of Music as to general fitness for teaching.

General Course for Grade and High School Teachers

This course is designed for teachers who expect to combine the teaching of other branches with the subject of music, in grade and high schools. This class meets twice a week throughout the year. The work consists of a study of the technical points to be presented in the school and the practice of songs suitable for school use. This course is of value to those who expect to teach in public schools or who wish to conduct high school choruses, and includes training in conducting. The course is open to university students without an additional fee. Persons not in the University are admitted on the payment of the incidental fee of $15. (Collegiate Course 45, 2 cr.)

Public School Drawing

Students who take the two-year Supervisors' course will find it to their advantage to devote some attention to preparation for the teaching of drawing. For this purpose the following elective courses in the Department of Manual Arts are available: Course 50, Freehand Drawing and Perspective, I; Course 51, Freehand Drawing and Anatomy, II; Course 52, Methods, Public School Drawing and De-sign II;Course 53, Practice Public School Drawing and Design, yr.; Course 62. Industrial Arts Design, yr.; Course 1 or 2, Elements of Mechanical Drawing, I or II.

Instruction in Applied Music

Pianoforte: Mr. Townsend, Miss Gunderson, Miss Campbell, Mr, Iltis, Miss Beecher.

Voice Culture: Mr. Swinney, Miss Jones, Miss Moutray.

Organ: Mr. Mills, Miss Eastman.

Violin and Viola: Mr. Geltch, Mr. Yates.

Orchestral Instruments

Violoncello and Double-Bass:
Wood-Wind Instruments: Mr. Yates.
Brass Instruments: Mr. Yates.

Orchestra

MR. YATES.

The University Orchestra is composed of about sixty-five students of the University. The purpose of the organization is the study of the larger classical forms, as well as cooperation with the Choral Union, in the performance of representative choral works. The orchestra gives several concerts throughout the year.

Rehearsals are held weekly in Music Hall during the school year. Membership is open to the entire student body, including graduate students, provided they possess sufficient knowledge of any orchestral instrument to pursue the work profitably. After two semesters' connection with the orchestra a student may receive a credit of one hour for each of the two following semesters. This work is catalogued as collegiate course 76.

Band

MR. YATES.

The University Band, consisting of two sections of about sixty and thirty-five men, is open to all students possessing the necessary qualifications. The band represents one of the most important musical activities at the University, and gives some fifty performances each year. Each section rehearses in Music Hall twice a week throughout the year. Freshmen and sophomores belonging to the band receive military credit. Students who desire to join should confer with the bandmaster.

Choral Union

PROFESSOR DYKEMA.

The Choral Union is open to all members of the University interested in studying and presenting oratorios and standard choral works.

Membership is also open to others not in the University. There is a membership fee of one dollar a year. At least two performances (one at Christmas and one in the spring) are given each year. Rehearsals are held weekly in Music Hall from October to May.

This work is catalogued as collegiate course 77, and is open as an elective to students of all schools and colleges. University credit of one unit-hour for the whole year is granted at the end of the season. Freshmen are eligible for membership, though without credit for the first year.

University Men's Glee Club

MR. SWINNEY.

The University Men's Glee Club is an organization of twenty-four men. This club makes at least one extensive tour during the school year. Vacancies are filled by competitive trial, and membership is open to the entire student body, including graduate students.

University Girls' Glee Club

MR. MILLS.

The University Girls' Glee Club is an organization of thirty-two women. Frequent public appearances are made locally. Vacancies are filled by competitive trial and membership is open to the entire student body, including graduate students.

Recitals and Concerts

All music students are required to attend the concerts, recitals, and lectures (public) given under the auspices of the School of Music.

Artists' Recital Series

The Artists' Recital Series consists of an annual course of recitals of chamber music.

Students enrolled in the School of Music are required to attend these concerts for which a fee of one dollar a year is charged (payable at the time of registration).

Students' season tickets at $1.00 are available to all students of all schools and colleges of the University.

Season tickets at moderate cost are also available to the general public.

Faculty Recitals and Lectures

Lecture-recitals and concerts, open to the public without charge, are given by members of the Faculty of the School of Music at stated intervals during the concert season.

Student Recitals

Student recitals, free to all students of the University and open to all others by invitation, are held at frequent intervals throughout the collegiate year.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when they are, in the instructor's opinion, sufficiently prepared.

Equipment

The School of Music is provided with a concert auditorium, lecture hall, teaching rooms for applied music, practice rooms, a two-manual organ, pianos, orchestral and band instruments, and an equipment of mechanical instruments.

Tuition for Theoretical Subjects in Music

Resident tuition	free
Nonresident tuition, per semester	$62
Incidental fee for all students, per semester	15

All students of the School of Music who are studying for the degree of Graduate in Music or for the Supervisor of Music Certificate must pay the incidental fee of $15 a semester, but neither the incidental fee nor the nonresident tuition is required of students taking only applied music in private instruction. Persons who are members of other schools and colleges of the University may take the theoretical courses in music without charge.

The fees in any subject are the same for all teachers and are as follows:

Private Instruction Once a Week Per Semester

One-half hour of instruction	$20
One hour of instruction	36

Private Instruction Twice a Week Per Semester

One-half hour of instruction	$36
One hour of instruction	72
Piano practice, each semester, one hour daily	3
Organ practice, each semester, one hour daily	9
Concert fee	1

Note—Students regularly enrolled in the university orchestra are entitled to half rates for tuition in stringed instruments.

No deductions are made for absences except in cases of protracted illness, when a rebate of one-half the fee for the time lost will be granted. All university holidays will be observed without make-up of lessons.

Students enrolling at any time previous to the fifteenth day of any semester will be charged the full fee for that semester. Students enrolling thereafter may receive some reduction at the discretion of the director.

All fees must be paid before the third lesson unless otherwise excused by the director. Teachers are not permitted to give instruction after the second lesson without receiving notice that the student's fees are paid.

Rules and Regulations

The School of Music calendar is the same as that of the University, including two semesters of about eighteen weeks each, and a summer session of six weeks, but students in Applied Music may enter at any time.

No student is expected to take part in any public performance without the consent of his instructor and the director.

General Directions

All students in the four- and two-year courses in music must present their registration cards from the Registrar's office before being assigned work in the School of Music.

All students in Applied Music must present an Applied Music registration card before registering in the School of Music.

New students in Applied Music will be examined by the Examining Committee of the School of Music to learn the status of their work and to determine whether or not the subject can be taken for credit in the case of juniors and seniors from the College of Letters and Science. This committee will meet from ten to twelve on the first Monday, Tuesday, and Wednesday, and on Wednesday at eleven throughout the semester when necessary. Appointments to meet the committee may be made with the secretary.

The office of the director in Music Hall at the University will be open for several days before the opening of each half semester for the reception of students and assignment of courses. After the opening

of the University the director may be found at Music Hall from 11 to 12 and from 2:30 to 3:30 daily, Saturday excepted.

For further information address

C. H. Mills,
Director, School of Music,
The University of Wisconsin,
Madison, Wisconsin.

DEPARTMENT OF PHYSICAL EDUCATION

PROFESSOR T. E. JONES (CHAIRMAN); ASSOCIATE PROFESSORS ELSOM, LOWMAN (DIRECTOR OF MEN'S GYMNASIUM), TRILLING (DIRECTOR OF WOMEN'S GYMNASIUM); ASSISTANT PROFESSORS BROWN, H'DOUBLER, LIPPITT, RICHARDS, SCHLATTER; INSTRUCTORS BRESNAHAN, BROWNELL, CARNS, ELMORE, KENT, LINDEN, MCKEE, STEINAUER, QUICK, VAIL, WELLINGTON, WILLIAMS; ASSISTANTS CRAMER, DICKELMAN, NEU, SPENGLER, TRUMPF.

Jurisdiction

The Department of Physical Education has jurisdiction over all athletic, aquatic, and gymnastic activities.

Aims

The aims of the department are as follows:

A. Student Growth and Development

1. To contribute to health, organic vigor, and good physical habits.
2. To provide an incentive and an opportunity for every student to secure at least one hour's physical activity daily as a balance to the sedentary demands of university life.
3. To conserve the social and moral values of games and sports and to secure to every student the fullest opportunity for their practice.

B. Training of Teachers

To train physical educators and play leaders.

C. Extension

To promote a more effective organization of play and administration of physical education throughout the state of Wisconsin.

Equipment

The Men's Gymnasium is 200 feet in length by 100 feet in width, with an annex 225 by 84 feet. On the ground floor are the offices, locker rooms, bathrooms and swimming pool, and a special room for corrective exercise. On the second floor are the offices of the Military Department and an unobstructed hall 165 by 98 feet used for the purposes of military drill and games. On the third floor are the visitors' gallery of the drill hall, the military club room, and the wrestling room.

The fourth floor contains the gymnastic hall, 165 by 65 feet. The equipment includes the usual apparatus and four handball courts. The annex contains a 12 lap cinder track, a baseball cage with floor of earth, and the rowing room.

The Women's Gymnasium occupies five floors of Lathrop Hall. The main exercising room is two stories high with floor 118 by 60 feet, visitors' gallery, stage, and running track. The concert room, 72 by 42 feet, is used for smaller classes. An auxiliary class and game room, 42 by 72 feet, and a lecture room are on the fifth floor. The equipment includes a complete outfit of developing appliances and the best modern types of light and heavy apparatus.

Two floors of one wing contain dressing rooms, showers, and lockers designed for the accommodation of 1,000 women. In the basement are four regulation bowling alleys; the swimming pool, 60 by 26 feet, well lighted and ventilated and supplied with filtered water; dressing rooms, showers, and hair drying apparatus.

The outdoor facilities include the university athletic field at Camp Randall, 33 acres; the women's field at Memorial Park, 3 acres; the men's playground on the lower campus, 2 acres; and twenty-three tennis courts. The university roads, drives, and paths afford excellent courses for cross country running. The university boathouses next to the men's Gymnasiun on the shore of Lake Mendota contain ten 8-oared shells, two 8-oared barges, two 4-oared shells, two 4-oared barges, two 4-oared gigs and four "war" canoes and storage room for canoes belonging to students.

A modern 40 horsepower, high-speed launch, supplied with complete life saving equipment, is kept in constant commission for instant service throughout the boating season.

For outdoor sports in winter there are opportunities for skating and hockey on the rink maintained by the department on Lake Mendota.

Requirements

Physical training is required of all first and second year students throughout the college year, two periods a week for men and four indoor or three outdoor for women.

Men students are required to be able to swim a distance of fifty yards, women thirty-five yards, by the end of the sophomore year.

Credits to the extent of four for men and eight for women must be secured in physical education by the satisfactory completion of the regular courses.

Election of specialized sports and exercises (course 2) may be made by students as soon as they have attained the minimum standard of vigor, development, and skill. This will usually occur at the end of the first year. Freshmen who have attained the required standard at the time of entrance may elect their exercises under course 2.

For the purposes of this department the college year is divided into three seasons: *Fall*—October and November; *Winter*—December, January, February, March; *Spring*—April, May, and June. All activities are conducted out of doors as far as the weather will permit. Regular indoor exercise is confined to the winter months.

The regulation suit for men consists of white sleeveless shirt, running pants, supporter, and rubber soled shoes. For outdoor sports students will require heavy shoes, khaki trousers, and a negligee shirt or jersey.

For women a uniform suit is required and should be purchased in the fall in Madison: in 1919 the cost was about $10.

The gymnasium fee is $1.25 each semester, required of each freshman and sophomore and of all upper class women taking work in the department.

Exemptions and Deferments from Physical Training

All requests for exemption and postponements from Physical Training must be made at the office of the Director of the Gymnasium and be approved by the Director.

I. Exemptions provided for by the rules and regulations of the University.
   1. Foreigners not desiring to become citizens.
   2. Physically unfit, on medical certificate from the Department of Clinical Medicine of the University.
   3. Short Course for Pharmacy students, known as Pharmacy II.

4. Normal school graduates and those who enter the University with college work sufficient to give them junior rank in the College of Letters and Science, and other colleges with similar entrance requirements.

Students coming under the above classes will fill out the official exemption form in the office of the Director of the Gymnasium and have same approved by his adviser, dean or medical examiner.

II. Excused from Physical Training under policy of the department on authority of the Director of the Gymnasium.

1. Students from institutions of college or university rank giving accredited courses in physical education. Proper credentials must be presented to show actual performance of duty and that the course given elsewhere equals that given here.
2. Adult Special students over 23 years of age not intending to graduate.
3. Such other cases as the Director deems advisable.

III. Deferments required to be made up in the department.

1. Self-supporting students where the hours of labor actually conflict with the hours of required work.
2. All cases not falling under any of those previously mentioned.

Note: In no case will work be permitted to be deferred for more than one semester consecutively, and no deferred work will be allowed to extend into the senior year.

Medical and Physical Examinations

The organic condition, stage of physical development, and degree of motor efficiency attained by each entering freshman and sophomore are determined at the opening of the college year by a series of examinations and tests made by the Department of Clinical Medicine and the Department of Physical Education.

An endeavor is made to determine the student's exact organic condition with a view to outlining for him a proper regimen of exercise, diet, rest, and work. Students are classified on an organic scale and are permitted to engage only in sports and games for which they are physically fitted.

No student is permitted to participate in competitive games either of intercollegiate or intramural grade unless physically fit for the same as determined by the examinations.

All candidates for football and other teams must be examined by and secure the permit of the Department of Clinical Medicine as well as that of the Department of Physical Education before reporting for practice with their squads.

Enrollment and Assignment

All first year women are required to meet in the Concert Room, Lathrop Hall, Monday, Sept. 27, at 4:30 for instructions. All second year women will meet in the Concert Room, Thursday, Sept. 30, 1920, at 4:30.

All first year men in the College of Engineering will be assigned to class periods by the committees of that college. All first and second year men of the College of Agriculture and the College of Letters and Science will be assigned to class periods in physical education, at the office of the Men's Gymnasium during the week of registration, beginning Sept. 20. All assignments must be made by Saturday noon, Sept. 25.

All required activities of the Department of Physical Education begin Monday, October 4, 1920. All absences on and after that date must be made up.

Tournaments and Contests

Interclass and intercollegiate tournaments and contests are conducted in all games and sports under the supervision and control of the department.

In the conduct of the men's activities the department has the cooperation of the Intramural Athletic Committee of the Student Athletic Board, consisting of five students representing Agriculture, Commerce, Engineering, Law, and Letters and Science.

The Women's Athletic Association cooperates with the department in the conduct of women's activities.

These two student organizations determine the rating of the various sports and the awards for achievement in the contests and tournaments.

The University is a member of the Intercollegiate Conference Athletic Association and maintains representative teams in all intercollegiate sports. No student may be a member of an intercollegiate team unless (1) he is eligible according to the requirements of the Student Life and Interests Committee, (2) has been a year in the University, (3) has no conditions in his various courses, (4) has received a weighted average of 77 in the work of the previous semester, and (5) is carrying full work.

Intramural and intercollegiate sports are under the government of the Athletic Council, a subcommittee of the Faculty Committee on Student Life and Interests.

Voluntary Exercise

All students are urged to secure at least one hour of recreative exercise each day and the facilities of the entire department are open for this purpose whenever not required for prescribed activities. Advice and direction may be secured by any student at any time. All advanced practice courses are open to any student fitted to take them.

Professional Training

(See also p. 185 and p. 255.)

Courses are planned to meet the needs of five classes of students: First, students desiring to major in physical education and become responsible instructors or directors; second, students desiring to minor in physical education in preparation for combining leadership of physical training activities with some academic subject in high schools; third, students desiring a general familiarity with the problems of physical education as a part of their equipment for positions as principals or superintendents in the public schools or for positions as social center directors; fourth, students desiring academic courses in physical education as a part of a liberal education.

The courses listed cover instruction in seven phases of work: (1) technical physical training activities, e. g., games, athletics, dancing, aquatics, gymnastics, etc.; (2) the functions and values of vigorous psycho-motor activities in the development of the child and in the recreative habits of the adult; (3) the growth, needs, and physical capacities of children and youth by age periods; (4) the physical examination and the classification of children and youth according to needs and fitness to participate in different activities; (5) the analysis and adaptation of activities to group and individual needs and capacities; (6) the principles of teaching and the methods of leadership in molding the moral expression of the powerful instincts expressed in play and in establishing hygienic and recreative habits; and (7) the principles of organization, management, and administration.

The requirements for a major are designed to prepare students for a responsible direction of physical training activities in all their developmental, hygienic, and social relationships. The development

of physical education in the public schools, the rapid rise of playground organization, the emphasis on physical training activities in social centers and their introduction into social welfare institutions, are continually increasing the demand for well-trained physical educators who can make the activities of gymnasium, playground, and athletic field physically safe and developmental, morally constructive, and a source of recreative habits that will last for life and conserve adult physical resources. These responsibilities require a training in the seven phases of work outlined above with a preliminary training in biology, chemistry, anatomy, physiology and psychology. Students, therefore, desiring to major in physical education should declare their intentions at the time of entrance to the University and consult with the instructor in charge as to their fitness to undertake the work.

No university credit will be given in the special technique courses except to students majoring or minoring in physical education.

Under the jurisdiction of the School of Education a four year professional course has been arranged for students preparing to become instructors of physical education or directors of playgrounds and recreation centers. Provision is also made for those who wish to minor in physical education with the idea of combining this work with academic subjects in the high school. For details see p. 255.

State Teachers Certificate

Graduates majoring in physical education will be entitled to receive the state teachers certificate offered in the School of Education by fulfilling the requirements in physical education and 6 hours in education.

They will also be entitled to a special state certificate given by the State Board of Examiners.

Courses of Instruction

For all Students

1. Developmental Exercises. 1 or 2 cr. Prescribed for all freshmen and such sophomores as have not attained the requisite development. Men, two hours; women, four hours weekly.

2. Advanced Exercises. 1 to 4 cr. Systematic courses in athletics. Open to all students who have attained the required degree of organic power and bodily skill. Prescribed for sophomores who have completed course 1. Prerequisite: course 1 or its equivalent.

3. Special Corrective Exercises. 1 or 2 cr. Required of all freshmen and sophomores unfitted to take courses 1 and 2.

4. Efficient Living. Given with course 1.

The work in courses 1, 2, 3, 4, and 20 is differentiated for the men and women according to their respective natures and needs.

Fall	Winter	Spring
1. Baseball	2. Basketball	1. Baseball
5. Cross country running	3. Boxing	4. Canoeing
8. Field hockey	6. Dancing	8. Field hockey
9. Football	7. Fencing	9. Football
13. Rowing	10. Gymnastics	13. Rowing
15. Soccer	11. Handball	15. Soccer
16. Swimming	12. Ice hockey	16. Swimming
17. Tennis	13. Rowing	17. Tennis
18. Track and Field	14. Skating*	18. Track and Field
	16. Swimming	
	18. Track and field	
	19. Tumbling	
	20. Water polo	
	21. Wrestling	

* Part season only and according to weather. May be elected only in connection with some other sport.

For Professional Students

The following courses for professional students are given under the jurisdiction of the School of Education. For detailed announcement of these courses see p. 255.

19. Practice Teaching; 20. General Technique; 21—50. Special Organization and Method; 16. First Aid to the Injured; 55. History and Principles of Physical Education; 56. Kinesiology; 107. Physiology of Exercise; 59. Nature, Function and Organization of Play; 114. Medical Examinations; 63. Physical Examinations and Gymnastic Therapeutics; 90. Principles of Teaching and Adaptation. 68. Organization and Administration of Physical Education; 71. Scouting and Other Adolescent Organizations; Theory and Practice; 80. Community Recreation.

MILITARY SCIENCE AND TACTICS

CAPTAIN JOHN S. WOOD, ORDNANCE U. S. A., PROFESSOR OF MILITARY SCIENCE AND TACTICS, COMMANDANT; CAPTAIN ORLANDO WARD, FIELD ARTILLERY, U. S. A., ASSISTANT PROFESSOR OF MILITARY SCIENCE AND TACTICS, ASSISTANT COMMANDANT; CAPTAIN JOHN KELIHER, INFANTRY, U. S. A., ASSISTANT PROFESSOR OF MILITARY SCIENCE AND TACTICS, ASSISTANT COMMANDANT; SERGEANT MAJOR W. G. ATKINS, INFANTRY, U. S. A., RTD., ASSISTANT TO THE COMMANDANT.

The object of the military instruction is to qualify students for the performance of the duties of commissioned officers, should their services be needed by the country. The instruction is necessary in order to prepare them to perform these duties intelligently and enables them to be thus trained with the least practicable interference with their civil careers. It is hoped that by this system there may be available, in time of national emergency, an increased number of educated men, trained in military science and tactics, to officer and lead intelligently the units of the large armies upon which the safety of the country will depend.

The courses are required for freshmen and sophomores, and elective for juniors, seniors, and graduate students. As the object of the training is to bring the largest possible number of students up to the proper standard of proficiency, and as the work is required by the rules of the University, exemptions, except for physical disability, cannot be accorded to freshmen and sophomores, and any student who is absent from any part of the instruction will be required, subsequently, to make up the omitted training before being credited with the number of units necessary for graduation.

The courses provide the ground work upon which to build military character and proficiency, and are designed to develop the greatest possible initiative on the part of the student. They also provide that the cadet officers and noncommissioned officers shall participate in the administration and training and share the responsibility therefor.

Upon graduation, especially qualified students receive from the Governor of Wisconsin commissions as brevet second lieutenants in

the National Guard of Wisconsin, subject to assignment to duty for five years after graduation.

Institutions whose students have exhibited the greatest application and proficiency in military training and knowledge during the academic year are designated annually by the War Department as "distinguished colleges and honor schools." The University of Wisconsin, having been thus designated for the years 1915 and 1916, is authorized to recommend ten Honor Graduates of the Department for appointment as second lieutenants in the United States Army.

All male freshmen and sophomores are required to report to the Commandant in person during the registration period. They will then be assigned to companies and should, at this time, present any excuse which may operate to exempt them from drill or necessitate its deference.

Reserve Officers' Training Corps

The Department has been designated by the President of the United States as an infantry unit, senior division, Reserve Officers' Training Corps under the act of Congress of June 3, 1916. This act provides for a four year course in military training. The work of the first two years for freshmen and sophomores will not differ from that of former years, nor does the act alter the requirements placed upon freshmen and sophomores. However, all freshmen and sophomores who become members of the R. O. T. C. are furnished uniforms by the war department.

Upon the completion of the sophomore year those members of the division who are selected for further military training by the President of the University and the professor of military science and tactics may elect to take the work of the advanced course. This necessitates a written agreement on the part of the student that he will continue the work, taking it five hours a week, until the end of his college course, and pursue such camp training as may be prescribed by the secretary of war. Upon the execution of this agreement, the war department furnishes to members of the advanced course, in addition to equipment, commutation of subsistence, amounting to about $100 a year. University credit is allowed for this work in accordance with the regulations of the various colleges.

Upon the satisfactory completion of the advanced course, together with such camp training as may be prescribed, graduates who are twenty-one years of age are eligible for appointment by the president of the United States as members of the Officers' Reserve Corps, subject to call for active service any time within ten years.

Exempt from Drill and Recitations

1. Foreigners not desiring to become citizens.
2. Physically unfit, on medical certificate from the Department of Clinical Medicine of this University.
3. Short Courses, College of Pharmacy, Agriculture, etc.
4. Normal School graduates and those who enter the University with college work sufficient to give them junior rank in the College of Letters and Science, and other colleges with similar entrance requirements.
5. Those holding honorable discharges from the United States Army, Navy, or Marine Corps.

Both drills and recitation courses begin at the opening of the semester. Drills will be held three hours a week. This regulation applies to both freshmen and sophomores.

All students will be provided with a cadet uniform as prescribed by and furnished through the Military Department.

Courses of Instruction

Detailed information as to the courses is given in *Regulations of the University of Wisconsin Corps of Cadets*, copies of which may be secured from the Commandant.

WASHBURN OBSERVATORY

GEORGE C. COMSTOCK, DIRECTOR AND PROFESSOR OF ASTRONOMY;
ALBERT S. FLINT, ASTRONOMER.

The Washburn Observatory was established in the year 1878 through the munificence of the late Gov. Cadwallader C. Washburn. Although its obligations and opportunities as a branch of a teaching university have not been ignored, the energies of its staff from the beginning have been directed mainly to astronomical research. Among the lines of research cultivated are the measurement of the positions and motions of the heavenly bodies, the discovery and measurement of double stars, with investigation of their orbits, the investigation of variable stars, the study of changes of latitude and the amount and character of the atmospheric refraction, the determination of the amount of the aberration of light, problems of stellar color, proper motions of faint stars, and a systematic investigation of the parallaxes of all accessible stars which have large proper motions.

The principal instruments of the Observatory are:

An equatorially mounted telescope of 40 centimeters aperture, constructed by Alvan Clark & Sons, and provided with graduated circles, driving clock, a filar micrometer, a spectroscope, astrophotometer, and a very complete set of eyepieces; a meridian circle, by A. Repsold & Sons, of Hamburg, with collimators, transit micrometer, and the usual accessories of such an instrument. The objective of the instrument was made by the Clarks, and has an aperture of 12 centimeters and a focal length of 145 centimeters. The circle is graduated to 2 minutes of arc. For several years this instrument has been employed in an extensive series of determinations of stellar parallax. There are also a sidereal clock by Höwü, of Amsterdam, two meantime clocks by Howard, of Boston, a chronograph, by Fauth & Co., of Washington, and a printing chronograph by Gaertner.

In the Students Observatory are mounted an equatorial telescope, by Alvan Clark & Sons, of 15 centimeters aperture, and a transit instrument of the broken telescope type, by Bamberg. These instruments, while primarily intended for instruction, are well adapted to and are employed for certain classes of original work. In particular,

the equatorial telescope has been provided with reflecting prisms (Loewy), and employed as one of the principal instruments of the observatory in an investigation of the refraction and the constant of aberration. The Bamberg instrument is used for latitude determinations by the Talcott method and for the time service of the Observatory. The Observatory also possesses a considerable number of subsidiary instruments, such as portable telescopes, spectroscopes, photometers, chronometers, sextants, engineers' transits, an altazimuth, a universal instrument, a personal equation machine, a spherometer caliper, seismoscopes, photographic and meteorological apparatus, and nautical charts and instruments.

The Woodman Astronomical Library, established in connection with the Observatory, and supported from the income of a fund given by the late Cyrus Woodman, possesses a large and valuable collection of works upon astronomy and kindred subjects.

The results of important investigations conducted at the Washburn Observatory are published by the state, and twelve volumes, representing the more important work done, have been issued.

Students of sufficient technical attainments are admitted to the Observatory and take part in the investigations in progress. Meritorious original work of such students may be included in the Publications of the Observatory. For the courses of instruction in Astronomy see Index.

UNITED STATES WEATHER BUREAU OFFICE

ERIC R. MILLER, OFFICIAL IN CHARGE.

The local office of the United States Weather Bureau is located at the University as a result of the policy of the University to cooperate with the scientific branches of the Federal Government, a policy that is also expressed in its association with the Agricultural Experiment Station, the Forest Products Laboratory, the Geological Survey, etc. The official in charge gives instruction in meteorology in the College of Letters and Science, information regarding which will be found on p. 178.

The office, where the recording apparatus is in operation, is in room 409, North Hall. The exposed apparatus is mounted on the roof of the same building. The equipment includes eye-reading apparatus for measuring the pressure, temperature, and humidity of the air, the rainfall, the direction and velocity of the wind, the duration and intensity of sunshine, and the polarization of sky light, and automatic registers for continuously recording the majority of these elements.

Meteorological observations were made at Madison between 1853 and 1864 by Professors S. H. Carpenter and J. W. Sterling at the University, and Dr. A. Schue at his office on Main Street. From January, 1869, to October, 1878, they were carried on by Prof. W. W. Daniels at the University. The Signal Corps, United States Army, maintained an observing station in Madison from October, 1878, to April, 1883, while from May, 1883, to September, 1904, the observations were made at the Washburn Observatory. The present office, since its establishment in September, 1904, has continued the series of observations. All of these records are now on file in the Weather Bureau office, where they may be consulted. The office also has reports and publications relating to the weather and climate of the United States and other countries and is prepared to furnish information regarding them.

The office receives telegraphic reports from similar offices distributed over the United States and Canada, at 7 A.M. and 7 P.M. and prepares and distributes to the press and the public in central and southwestern Wisconsin the daily weather bulletin, the weather forecast, and other weather information. The office is open to the public from 9 A.M. to 4 P.M. daily, except Sundays and holidays.

FOREST PRODUCTS LABORATORY

MR. WINSLOW (CHAIRMAN); MR. HUMPHREY, MR. NEWLIN, MR. MARKWARDT, MR. TIEMANN, MR. KOEHLER, MISS GERRY, DR. HAWLEY, MR. BATEMAN, DR. MAHOOD, DR. SHERRARD, MR. HUNT, DR. KRESS, MR. WELLS, MR. EDWARDES.

General Statement

The Forest Products Laboratory is an institution of practical research conducted by the Forest Service, United States Department of Agriculture, in cooperation with the University of Wisconsin, for the purpose of studying problems bearing on the most efficient use of the products of the forest and for disseminating such knowledge. The staff of the laboratory cooperates with that of the University of Wisconsin in the courses of lectures and researches outlined below. The laboratory offers unusual facilities for research in the field of forest products and possesses very complete scientific and technical equipment for this purpose. In its investigations it approximates closely commercial conditions and cooperates extensively with the various manufacturing establishments in testing out its researches on a commercial basis. The technical investigations of the laboratory are as follows: (1) Mechanical Properties of Wood. Investigations on strength, stiffness, hardness, and other mechanical properties of commercial woods; effect of treatments on strength; tests on fabricated materials and manufactured articles; the development of grading rules for structural timbers. (2) Kiln Drying and Wood Structure. Determination of best methods of kiln drying to eliminate losses; design and operation of dry kilns; studies of commercial kilns; the structure and properties of wood; microscopic studies and identification. (3) Containers and Shipping Boxes. Study of containers and methods of packing; details of balanced construction; study of loss and damage to containers; designs and specifications. (4) Plywood, Glues and Laminated Stock. Study of plywood manufacturing problems; strength and design of plywood; development and improvement of glues; analysis of glue components; investigation of internal stresses in laminated construction; study of new uses for laminated construction in commercial work. (5) By-Products and Chemical Studies. Researches on the methods of production and utilization of by-products such as alcohol, turpentine, rosins, acetates, etc., obtained from various forms of wood and wood waste;

the suitability of woods for pulp and paper and fiber specialties; the efficiency of various wood preserving processes and preservatives; fire proofing of wood and slow burning construction; researches on fungi which attack structural timbers with investigations aimed at practical means of prevention. (6) Technical Studies of Industries. Study of the economic utilization of wood; lumber grades and specifications; methods of scaling and marketing logs.

The lectures and research are offered by the staff of the laboratory to both undergraduates and graduates, who may choose one of the problems as major or minor work for a thesis for a degree.

Student Research Assistantships

Students who show unusual ability in research may be appointed as student research assistants in this laboratory by the Forest service or by the Bureau of Plant Industry, in accordance with the regulations of the United States Civil Service Commission. The salary will not exceed $300 per year; tuition and laboratory fees will be remitted. Application for these assistantships must be made to the director of the Forest Products Laboratory. The number of students thus appointed will largely depend upon the funds available and the number of problems taken up by the laboratory for solution.

Lecture and Laboratory Courses

A general course on forestry and utilization (101) is given during the first semester and is open to any student. This is followed in the second semester by a technical course in wood technology (102) open to all junior, senior, and graduate students and one on structural timbers (110) which is adapted particularly to junior, senior, and graduate engineers. Two lecture courses in the chemistry of wood utilization, including a description of industrial chemical processes of using wood as a raw material are given. Special research work can be arranged for graduate students. A course in pathology of wood is given in cooperation with the Department of Plant Pathology during the second semester to undergraduates and graduates.

CHEMISTRY OF FOREST PRODUCTS

LECTURERS BATEMAN, HUMPHREY, HAWLEY, MAHOOD, SHERRARD, KRESS, WELLS, HUNT.

For Undergraduates and Graduates

103. Industrial Chemistry Applied to Forest Products. II; 2 cr. Prerequisites: Chemistry 120 and 121. Mr. Bateman, Mr. Hawley, Mr. Mahood, Mr. Sherrard, Mr. Kress, Mr. Wells.

For Graduates

208. Research in Forest Products Chemistry. Yr.; hours to be arranged.

A. Coal tars, wood tars, and wood preservatives. Mr. Bateman.

B. The production of ethyl alcohol from wood waste; tannins, and fermentation. Mr. Sherrard.

C. Wood distillation and wood extraction. Mr. Hawley.

D. Carbohydrates and terpenes. Mr. Mahood.

E. The chemical action of bacteria and fungi on carbohydrates. Mr. Humphrey.

F. Pulp and Paper. Mr. Kress.

G. Wood Preservation, Glues and Laminated Construction. Mr. Hunt.

FORESTRY AND WOOD TECHNOLOGY

LECTURERS TIEMANN, GERRY, HUMPHREY, KOEHLER, NEWLIN, MARKWARDT, HUNT.

For Undergraduates and Graduates

101. Forestry and Utilization of Wood. I; 2 cr. Mr. Tiemann, Mr. Koehler, Miss Gerry.

102. Wood Technology. II; 2 cr. Mr. Tiemann, Mr. Koehler, Miss Gerry.

110. Structural Timbers. II; 1 cr. Course will not be given unless attended by at least five students. Prerequisite: Mechanics 2 and 3. Mr. Newlin, Mr. Koehler, Mr. Hunt, Mr. Markwardt.

119. Diseases of Timber and Forest Protection. In the Department of Plant Pathology. See p. 328.

SPECIAL LECTURES

Given to supplement regular courses in the University of Wisconsin.

IN THE DEPARTMENT OF BOTANY

110. Plant Histology. Two lectures on wood structure. Miss Gerry.

115. Histology of Woods. Four lectures on the minute structure and characteristics of the wood of important forest trees. Miss Gerry, Mr. Tiemann.

IN THE DEPARTMENT OF MANUAL ARTS

4. Elementary Bench Woodwork. Five lectures on the physical properties of wood and wood structure. Mr. Tiemann, Miss Gerry.

5. Furniture and Cabinet Design and Construction. Three lectures on the theory and practice of kiln drying. Mr. Tiemann.

10. Wood Finishing. One lecture on the structure, development, and significance of tyloses. Miss Gerry.

IN THE DEPARTMENT OF AGRICULTURAL ENGINEERING

1. General Agricultural Engineering. One lecture on practical methods of preserving farm timbers. Mr. Hunt.

IN THE DEPARTMENT OF MECHANICS

52. Materials of Construction. One lecture on factors influencing the working stresses and grading of timber. Mr. Newlin.

IN THE UNIVERSITY EXTENSION DIVISION

Several lectures on various technical activities of the Forest Products Laboratory will be given. More specific announcements to be made by the Extension Division. Mr. Koehler.

SUMMER SESSION

SCOTT H. GOODNIGHT, DIRECTOR.

The Summer Session, originated twenty-two years ago as a period of study and review for teachers, has become an integral part of the university year. Nearly all departments are represented. The courses range from preparatory work for students seeking to meet entrance requirements through all grades of undergraduate work to the most advanced graduate instruction and investigation. The work for teachers and for graduate students receives major emphasis, but very many undergraduate students of this and other colleges now avail themselves of the opportunity thus presented to shorten the period of their college courses or to make up deficiencies in either preparation or course requirements. They have the advantage in summer of being free from many of the distractions (intercollegiate games, fraternity rushing, etc.,) which obtain during the semesters. At the same time there is no lack of social life and wholesome recreation during the summer.

Duration of the Session

The twenty-second Summer Session of the University of Wisconsin opens June 28, 1920. The session lasts six weeks and closes August 6. In the Law School the session begins June 28 and ends September 3.

Classes of Courses

Courses, both academic and professional, are offered for graduates and for undergraduates in arts, engineering, medicine, law, and agriculture, for teachers in colleges, agricultural schools, high schools, and technical schools, and for special students, as lawyers, doctors, chemists, writers, social workers, farmers and practicing engineers.

Virtually all the courses carry full academic credit. All the library, laboratory, and other facilities of the University are available during the summer and the opportunities for thesis and advanced investigative work are particularly favorable at this time.

Terms of Admission

The requirements for admission for graduates and undergraduates who desire university credit are the same for the Summer Session as for the other sessions of the University. (See pp. 85ff.)

Students who desire to enter with advanced standing from normal or college should submit either by mail or in person, a complete record of their preparatory and college credit to the chairman of the Advanced Standing Committee, Professor M. H. Haertel, University Hall. Blank forms for submitting such records will be supplied upon application to the chairman.

Credit students who do not desire to become candidates for a degree at this University need not comply with the entrance requirements. They may register in any course or courses the work of which, in the estimation of the instructors in charge, they are able to carry to advantage. If such students complete the work of a course satisfactorily, the Registrar will, upon application, issue a statement to that effect, stating hours of work carried and grades earned. Credit toward graduation at this University, however, will be given only after regular matriculation by one of the methods described above.

Holders of bachelor's degrees are registered directly, after conference with the Dean of the Graduate School, as graduate students. This privilege carries with it, however, no guarantee as to the length of the period of study requisite for earning any given higher degree. A special bulletin of the Graduate School will be mailed upon application. Correspondence relative to graduate work should be addressed to Dean G. C. Comstock, University Hall.

Auditors and Special Students

Adults who desire to pursue college work for their profit or pleasure, but without reference to a degree, also those who desire merely to visit lecture courses in subjects which are of special interest to them, without being held responsible for the work expected of students working for credit, may register in the summer session as auditors. Auditors pay the same fee as other students and enjoy the same privileges, except that of being included in recitation and theme work.

Credits for Summer Session Work

A student in any of the colleges may receive for the session of six weeks a maximum of six credits. Credit toward all degrees may be earned in the Summer Session. Candidates who expect to offer for

graduation the minimum of thirty credits must spend two semesters in residence; those who expect to offer forty-five or more credits earned in residence, may earn all or any part of them in Summer Session.

A special method of obtaining the master's degree by part summer session and part *in absentia* work is described on page 362 of this catalogue.

Fees and Registration

The general fee for the Summer Session, irrespective of the number of courses taken, is $20, except in the Law School (ten weeks) where the fee is $32.

Registration must precede entrance upon any part of the work of the session. Registration takes place Saturday, June 26, and Monday, June 28, at the office of the Registrar, 158 University Hall. In the Law School, registration takes place on Saturday, June 26 only.

Students who continue work beyond the regular summer session must pay an additional fee of $3.00 per week.

For estimates of the expense of a student during a session, see page 69. A preliminary announcement of the Summer Session is issued in January and a bulletin giving details in March. Copies of these may be had on application to the Director.

CONVOCATIONS

List of Convocation Addresses 1919-20.

Nov. 11.

Dr. Paul S. Reinsch, Late Minister to China.

"The Armistice and Peace."

Nov. 20.

Mr. A. Frederick Whyte, Formerly Member of the British Parliament.

"The British Empire and America."

Feb. 20.

Convocation Extraordinary, in celebration of Founders' Day, Washington's Birthday, and Lincoln's Birthday, with addresses by professors, students, and alumini, assisted by the Choral Union, the University Girl's Glee Club, and the Men's Glee Club.

March 4.

President Marion L. Burton, President of the University of Minnesota.

"The Function of Religion in Education."

April 23.

Dr. Nicholas Murray Butler, President of Columbia University.

"The Unrest of the World."

PUBLIC LECTURES

Each year the University arranges a series of public lectures, and brings to Madison for that purpose a number of distinguished speakers. The aim is to provide lectures of general interest and to have them cover a wide range of subjects. The lectures are free to the students and to the public.

1919. March 5.
Frank P. Graves, dean of the School of Education, University of Pennsylvania.
"The Evolution of our Universities."

March 6.
Jens Jensen, landscape architect.
"Local Color."

March 12, 13.
Irving Babbitt of Harvard University.
"Romantic Genius and Imagination."
"The Present Outlook."

March 15.
Witter Bynner, poet.
"*Iphegenia in Tauris* of Euripides."

April 10.
Gerald Thayer, artist and naturalist.
"Camouflage in War and Nature."

June 6.
José Castillejo, University of Vallodolid.
"Social and Educational Movements in Spain."

October 24.
Louis E. Lord, accredited lecturer for Archaeological Institute of America.
"Modern Russian Painting."

November 20.
G. W. Eggers, director of the Art Institute of Chicago.
"The Human Figure as an Alphabet."

November 20, 21.
A. F. Whyte.
"Ideals and Problems of the British Commonwealth."
"The British Empire and America."

December 10.
Dr. Thomas W. Salmon, chief consulting psychiatrist of the A. E. F.
"Some Lessons in Mental Hygiene from the War."

1920. January 20, 21.
George Albert Coe, of Union Theological Seminary.
"Religious Education as Effected by Changing Conceptions of Religion."
"Religious Education as Effected by Changing Theory and Practice of Teaching."

January 29.
Charles H. Haskins of Harvard University.
"The Peace Settlement at Versailles."

January 29.
Mr. Charles Rann Kennedy.
"The Modern Drama."

March 8.
Charles Upson Clarke.
"The Balkan Tangle."

March 12, 24.
Dr. W. H. R. Rivers.
"The Freudian Concept of the Censorship."
"Ethnology, Its Aims and Methods."

April 27, 29, 30.
George Edward Woodberry.
"Longfellow."
"Lowell."
"Shelley."

May 3, 4.

Albert Feuillerat, University of Rennes.

"Two Franco-American Poets: Viéle-Griffin and Stuart Merrill."

"Some Aspects of Shakspere's Dramatic Technique."

May 10, 11, 12.

Harry N. Holmes, professor of chemistry, Oberlin College.

"Colloid Chemistry."

"Emulsions."

"Gels."

"The Industrial Applications of Colloid Chemistry."

OVERSEAS LECTURES

By members of the faculty of the University of Wisconsin.

1919. November 18.
Professor M. S. Slaughter.
"War Service in Italy."

November 25.
Professor C. R. Fish.
"English Education and the War."

December 4.
Professor Arthur Beatty.
"Education in the American Expeditionary Force."

December 11.
Professor Max Mason.
"Submarine Detection."

1920. January 8.
Professor J. C. Elsom.
"Physical Reconstruction of the Wounded Soldier."

January 15.
Professor R. H. Hess.
"France at War."
"France at Peace."

PSYCHICAL CULTS AND SYSTEMS

Lectures by Professor Joseph Jastrow

February 24.
"Occultism and Its Survivals."

March 2.
"The Prediction of Fate."

March 9.
"Mental Traits and Bodily Signs."

March 16.
"The Reading of Character."

March 23.
"Systems of Mental Healing."

March 30.
"The Supernatural."

April 6.
"Modern Spiritualism."

DEGREES

CONFERRED ON COMMENCEMENT DAY, 1919

COLLEGE OF LETTERS AND SCIENCE

Bachelor of Arts

The star preceding a name indicates that the candidate was in military service and was granted a war diploma.

Eliza Treat Alling
†Trent Alexander
Sarah Elizabeth Ashby
†Irma Alice Atkins
Fredrica Atwood
Lucile Katherine Aucutt
Edwin Ben Baer
Ruth Lucille Ball
†Anna Roy Bardon
Margery Johanna Barry
†Winifred Bartholf
Louise Harriet Beaucage
†Margaret Knowlton Belknap
Helen Annette Benisek
Charles Ralph Berne
Lucile Wilhelmina Bieberman
Vera Louise Bierbauer
Marvel Milne Bjornson
Lois Vivian Blackburn
†Fred Gabriel Blum
Mary Zilpha Bohan
Kathryn Mae Boll
Mari Henri Bollman
Grace Weymouth Bordelon
Lucille Dorothy Marie Born
Helen Mae Bradley
Grace Catherine Bray
†Howard Bovee Briggs
Eugene Edward Brossard
†Katheryn Kent Brown
Reuben Samuel Tilden Brown
Katherine Elvina Burtness
Ethel Mary Byrne
†Leota Mae Campbell
†Mary Helen Campbell
‡Marcus Thomas Casey
Rachel Beal Chadwick
Keats Synn Chu
Mavis Adelaide Chubb
John Lindsay Clark
Lillian Martin Clark
Vida Alice Coapman
Arthur Vincent Cole
Mary Belle Conine
Lauretta Bugher Conklin
Ruth Margaret Conlin
Beulah Martha Connell
Gloria Olive Cooper
Marion Julia Corey
§Marion Charles Cranefield
†Kenneth Curtis
Eleanor Fairchild Dana
Florence Isabelle Deakin
Dorothy Sara Dimond
†Florence Donacelski
Emily Lucile Donaldson
Annetta Donkle
Gretchen Marie Dunaway
†Howard Ormsby Eaton
Richard Hoyt Ede
*†William Donaldson Edwards
†Howard Edward Egan
Thomas Thorp Ellsworth
Bernardo Whitfield Elsom
Louise Lindsley Emerson
Martha Sophie Engel

‡Died in service, September 16, 1918.
§Died in service, July 30, 1918.
†Degree conferred since commencement, 1919.

Marie Matilda Esch
Mildred Campbell Evans
Lucile Everett
Karen Fredrikka Falk
Marion Elizabeth Fay
Katherine Ann Fedde
Gladys Fellows
Augusta Rose Felsher
Wirth Fitch Ferger
†Elizabeth Blanche Ferry
†Harold Manoel Field
Catherine Loretta Fleming
†Martha Irene Folckemer
Mildred Lucile Frazier
Evelyn Agnes Frish
Miriam Louise Frye
†Ruth Emma Garwood
†Bertha Gehr
Martha Gladys Gibbon
Otto Gustav Gilbert
Grace Clemans Goddard
Madelaine Henriette Goldmann
Dorothy Patterson Grace
†Robert Charles Graewin
Marion Clevenger Gratz
James Edward Greenberg
Dorothy Nichols Greene
Alma Eleanor Gross
Madeleine Guillemine
Milton Albert Haker
Lavone Agnes Hanna
Myra Susan Harker
Frances Hay
Irma Charlotte Hayssen
Elizabeth Reed Head
Rena Heddles
Alfred Newman Heuston
†Harry Hingston Hindman
Lucius Warrington Hipke
Marie Emily Hjermstad
Beatrice Muriel Hogan
Viola Martha Hollensteiner
Ethel Mae Holt
Elizabeth Jane Hooper
Perle Mary Hopson
Hsueh Hai Hsieh
Ruth Anna Hughes
Marietta Lucile Hulbert
Ruth Bingham Hurlbut
Grace Theresa Hutchinson
Helen Katherine Jackson
†Florence Ethel Jacobi
Gertrude Margaretta Jacobs
Anna Cordelia Jameson
Dagmar Christine Jensen
Gladys Johnson
Julia Agnes Johnson
Margaret Ruth Johnson
Marguerite Edwards Jones
Thelma Fay Jones
Ralph Karger
Dorothy Elizabeth Kennedy
Mary Keyes
Hilda Louise Kiekhefer
Florence Harriet King
Gertrude Phyllis King
‡Harold Everett Kinne
Albert Herbert Koschmann
Paul Stevens Kramer
Gretchen Kuepper
Harriet Angeline Kupfer
†Martha Kurz
Dorothy Kyle
†Philip Fox La Follette
Marion Elizabeth Lamont
Miles Krause Lander
Margaret Emme Landwehr
Esther Amelia Larsen
Francis Child Lathrop
Margaret Lathrop
Margaret Donilla Laut
Frances Eleanor Levy
Lillian Lucille Lewis
Mary Ann Lowell
Lucille Lillian Lowry
Alma Catherine Luessen
Wanda Luzenska
Blanche Lois McDonald
Helen Elizabeth McDougall
Mary Sears McHenry
George Button McKinley
†Nina Mann
Edith Martin Maplesden
Mildred March
Harold Eugene Marks
Irma Elaine Marohn
Alice Mae Martin
Cora Amalie Mautz

‡ Died in service, July 19, 1918
† Degree conferred since commencement, 1919.

Mary Eleanor Metcalf
Barbara Jessie Miller
George Ellsworth Miller
Sigrid Winifred Moe
Erwin Theodore Mohme
†Alice Louise Moore
†Julia Anna Moyer
Ardis Mary Mozingo
Clara E. Mueller
Catherine Oliver Munson
Brynhilde Josephine Murphy
†Harold Nebel
Esther Neprud
Rose Katherine Newman
Edith Dorothy Noll
Elizabeth Ruth Nystrom
Bertha Ochsner
Ethel Janette Odegard
Eleanor Margaret O'Laughlin
Doris Louise Olin
Mamie Isabella Olson
Irene Kathryn Opgenorth
Grace Padley
Louisa Parker
Virginia Cleveland Pasley
†Dorothy Jean Patterson
Barbara Evelyn Pearsall
Wilhelmine Mildred Pederson
Chauncey James Pellow
Jacob Perlman
Margaret Irene Peterson
§Evelyn Alice Phillips
Addie Emma Pieh
Emily Marion Pilpel
Amelia Pirie
Viola Elfrieda Pleuss
Adelaide Grace Porter
*John Emery Porter
Alice Viola Porterfield
Julia Harriet Post
Leona Lenore Presser
Edward Frank Pritzlaff
Delia Crossette Proudfit
Ruth Marie Radford
Velma Agnes Reid
Anna Ross Reymert
Catherine Jean Ritchie
Edward Howell Roberts
Frank Alsworth Ross
Rada Rosalind Roth
Clara Louise Ruder
Mildred Priscilla Rufsvold
Laura Mae Sandrock
Lulu Estelle Saul
Marian Eunice Frances Scanlan
Margaret Arlotta Schatz
Elinor Marie Schroeder
Margaret Charlotte Schultz
Catherine Elizabeth Schuster
Lorene Elizabeth Schwebs
†Dean Merrill Schweickhard
Marjorie Jean Sexton
Marlys Dove Shaw
Sohnia Sinaiko
†Sister Mary Gertrude Quinn
Helen Harriet Skinner
Carol Josephine Smith
Dorothy Paul Smith
Harriett McCune Smith
Helen Belle Smith
Mary Ruth Smith
Florence Gladys Snyder
Silas Llewellyn Spengler
Margaret Berenice Sperry
Nils Eivind Stabo
Rachel Elizabeth Stearns
Esther Mary Steudel
Sara Fay Stevens
Nell Hurlbut Stevenson
Mary Kathryn Stofflet
Joseph Ariel Stolze
Ralph Gunn Sucher
Raymond Joseph Suchy
Catherine Clawson Sumner
Ruth Duncan Sundell
Cleary Neil Swanson
Bessie Lillis Taylor
Sarah Margaret Taylor
†Susan Shelby Taylor
Virginia Simpson Tener
Jessica Agnes Thompson
Eva May Thornton
Gustave E. Tiefenthaler
Katharine Bird Tierney
Lillie Tredwell
Alice Turner

§ Died March 23, 1919.
†Degree conferred since commencement, 1919.

Helen Louise Turner
Paul Farrell Tye
Eunice Rosina Uebele
†Ruth Van Deursen
Alice Ring Van Hise
Ethel Lois Vasey
Maurine Ella Vaughn
Margaret Moore Wade
Frances Nell Walker
Lucy Angeline Wallrich
Ruby LaVerna Walton
Edna Margaret Ward
‡†Mary Vivian Warner
Irma Weiser
†Charles William Temple Weldon
Florence Whitbeck
Dora Marguerite White
Katherine Page Whiteside
Clara Bassett Williams
Horace Hays Williston
Ben M. Wishnefsky
George Salter Woodward
Lucile Ruth Works
Cornelia Wright
Anne Yabroff
Bertha Dorothy Yabroff
Martha Grace Young
Ruth Zillmann
Sigrid Constance Johnson Zook

Course in Commerce

†Thomas Mason Bainbridge
Herbert Miller Baker
Cyril James Beaver
†George Eaton Bird
Porter Harris Brown
John Webb Cance
Mildred Elizabeth Clark
Henry John Duwe
John Currie Gibson
Henry Lawrence Gotfredson
Raymond Oscar Harding
James Matthew Hayden
†Lloyd Dallas Herrold
Teh Kuei Ho
William John McCoy
Walter Ernst William Malzahn
†Herbert James Matzen
Dora Elizabeth Maw
*Paul Adrian Meier
Harold Rolf Noer
†William Alva Nuzum
Gladys Pasewalk
†Roy John Schuknecht
Margaret Helene Stratman Thomas
Andrew T. Thoreson
*‡Charles William Tikalsky
Harold Wilbur Tilson
Gail Vanden Braak
♭Donald William White

Course in Journalism

‡*Reuel Richard Barlow
Elizabeth Rhea Bennett
§*James Raymond Bill
Florence Elma Collins
†Joseph Rider Farrington
**Thomas Edward M. Hefferan
Louise Perkins Ludlum
Esther Newell Ayer Millner
Harriet Nixon Pettibone
Jane Pine
Hester Douglas Robinson
†David Weiss

‡ Degree conferred as of the class of 1918.
§ Degree conferred as of the class of 1917.
** Died in service, August 1, 1918.
† Degree conferred since commencement, 1919.
♭ Died in service, November 1, 1918.

Bachelor of Philosophy

Normal Course

Clifford Norman Anderson
Florence Elizabeth Babcock
Olive Magadalene Berry
Helen Augusta Borchers
Irene Emma Galvin
Violet Elisabeth Gould
†Richard Gray
Edith Evelyn Hodge
†Etta Hudson Howell
Minnie Elinor Howell
†Agnes Hansena Johnson
†Fred Charles Martin
†Inez Chapman Merrill
†Etta Michaels
William Henry Mulvey
Hazel Alice Rose
†Ruth Alberta Shepherd
†William Francis Simmons
†Bessie Jenkins Smith
†Loran Darius Sparks
Leila Elizabeth Stormzand
†Dora Belle Thompson

General Course

Helen Converse Browne
‡*James George Clark Jr.
Ernest Clarke
Harold Martin Groves
Martha Helena Olesen
†Fredrica Sebold Probst
‡*Robert Charles Wolfers

Bachelor of Science

Chemistry Course

*Harold Fred Beglinger
Winfred Joseph Cauwenberg
Harold Cowan Cheetham
Ming-Heng Chou
†George Edward Dunn
Samuel Noah Epstein
Alice Emily Hoffman
Frederic Theodore Jung
Irvin Wallace Keebler
Margaret Isabelle Melaas
Clara Amelia Nehrlich
Catherine Ellen Schuler
Hilda F. Wiese

Pharmacy Course

Arthur Lanz
§Herman Peter Reif
†Julia Priscilla Whelan

Graduate in Pharmacy

Leonard Bergstein
Charles James Brinkerhoff
Anton William Brunner
Frederick Walker Irish

† Degree conferred since commencement, 1919.
‡ Degree conferred as of the class of 1918.
§ Degree conferred January 15, 1918.

Bachelor of Science

Medical Science Course

Edgar Harvey Albers
Ernest James Brown
Willard Alonzo Chipman
Carroll Francis Crain
Willard Oliver Dehne
Camilles Ogden Driver
José Escabi
William John Focke
Ernest Fred Freymiller
John Ferdinand Gates
†Benjamin Goldberg
James Arthur Gough
†Walter Elmer Green
Clarence Nels Bugge Hatleberg
John Samuel Hickman
Paul Chesley Hodges
George Henry Christian Hoyer
Nicholas Stanislaus Johnson
Lawrence Victor Littig
Roscoe Lyle McIntosh
Robert Bresee Montgomery
*Constantin Luther A. Oden
George Hill Patterson
Karver Louis Puestow
Richard Woollard Pullen
Ezra Hazelton Rogers
Joe Frank Shimpa
Willard A. Michael Sonnenburg
†Spiros D. Sotirakos
Robert Mage Sutton
John Francis Tilleman
Robert Stansmore Vivian
Allen Smith Watson
Carl Joseph Weber
Anna Whelan
King Grier Woodward

SCHOOL OF MUSIC

Bachelor of Music

Ann Briggs
Rachael Marie Gausman
Frances Leanora Higley
Eleanor Catherine Kraemer
†Madelon Charity Willman

Graduates from Course for Supervisor of Music

Aagot Marion Katharine Borge
Gudrun Christensen Estvad
Grace Clemans Goddard
Flora W. Heise
Pearl Corinne Hill
Ruby Jacobson
‡†Vera Shearer Lawson
Marguerite Sammis
Marion Sherwood Spring
Violet Loraine Timlin
Norma Johanna Weiskopf

COLLEGE OF ENGINEERING

Bachelor of Science

Civil Engineering Course

Ray Emil Behrens
Rudolph Otto Buchholz
Finley Leland Fisbeck
Herbert Glaettli
Maurice Miller Hanson
Paul Huntzicker
Henry William Kurtz
Kuh Tsen Liu

‡ Degree conferred as of the class of 1914.
† Degree conferred since commencement, 1919.

Mechanical Engineering Course

Walter Michael Bagemihl
Francis Lawrence Bayle
Willard Bernhard Bellack
Carlyle William Burgess
§*Percival Fuller Case
Alfred Frederick Haubrich
Clifford Elihu Ives
William George Mantonya
Oren Herbert Marshall, Jr.
Emmett John Mueller
†Russell Edward Puerner
Ethan Warner Schmidt
Emil Fred Stern
Glenn Barton Warren
‡*Kenneth Fred Whitcomb

Electrical Engineering Course

Cleon Faville Balch
David Jones Blattner
Tower Wadsworth King
Jay Earl Newton
Leo James Peters
Edmund Merriman Wise
Lawrence Perry Works

Chemical Engineering Course

Erwin Charles Julius Brenner
Walter Allos Koehler
†Frank Blackburne Lucas
John Peter Mertes
William Henry Negley

Mining Engineering Course

Edward Otto Werba

COLLEGE OF AGRICULTURE

Bachelor of Science (Agriculture)

†Fred Louis Behling
Carlyle Carr
†Harold Robert Chipman
Elmer R. Clark
Clarence Leroy Colville
Walter Robert Dally
Stephen Torry Dexter
Allman Vernon Dreier
John Merrill Fargo
Milton Emil Griem
‡*Howard Joseph Hancock
Carlisle Campbell Hatch
Morris Leroy Hitchcock
Earl Loren Liddle
Nels Theodore Nelson
Duncan Henry Reid
William Herbert Eddy Reid
Oscar Zachariah Remsberg
Gordon Hastings Shepard
†*Lloyd Banks Sholl
Hugo Adolph Stoltenberg
Joseph H. Toolajian
Charles Wesley Turner, Jr.
†Thomas Wesley Tuttle
Franklin Whittelsy Wallin
Virgil Roe Wertz
Arthur Noble Wilcox
Judson Sparks Williams
Joseph Orin Wilson
Julius August Wolfram

† Degree conferred since commencement, 1919.
‡ Degree conferred as of the class of 1918.
§Degree conferred as of the class of 1917.

Bachelor of Science, Home Economics Course

†Dorothy Helen Ayers
Helen Elizabeth Barker
Grace Maurine Berry
Marguerite Reno Beattie
Florence Esther Beatty
Vieva Marion Bigelow
Marjorie Helen Black
Ida Kathryn Bollenbeck
Marion Fern Boyce
Edith Eleanor Burke
Rachel Jane Carpenter
Vera Iris Coldwell
Ray Cooley
Mary Florence Danforth
Martha Jannette Dunwiddie
Laura Elizabeth Faville
Mabel Grace Fernald
Margaret Fraser Ferris
Grace Rosalind Finucane
Mary Theresa Fitzmaurice
Genevieve Elizabeth Gough
Elsie Dorothy Graber
Florence Marie Graper
Mae Groendyke
Mae Horton
Margaret Isabelle Hutton
Katherine Jones
‡†Marjorie Helen Jones
†Gladys Kyte
Marion Lucile Lewis
†Ada Belinda Lothe
Breta Marie Luther
Katherine Mable Nienaber
Marion Grace Olbrich
Miriam Catherine O'Neil
Julia Pratt Outhouse
Adelaide Paine
Margaret Elizabeth Pieh
†Nell Beatrice Place
†Ruth Madolyn Roehm
Eva Sophia Schairer
Veronica Schneider
Mariana Theresa Sell
†Gladys Marie Severin
Sister Mary Evangeline Cleaveland
Eleanore Jean Stanchfield
Agnes Lavinia Sturges
Elisabeth Sutherland
†Caecilia Magdaline Thieman
Marion Esther Tyler
Helen Uzzell
Harriette Wilson
Hazel Gertrude Wolcott
†Margaret Josephine Wolfe

Graduate in Agriculture

Ruby Hawn
Lawrence David Mereness
†Martin James Sheridan

LAW SCHOOL

Bachelor of Laws

Stephen Walter Brunner
Marie Angelina Brunner
Byron Joseph Carpenter
†Roy Martin DeWitt
Alfred Laurence Godfrey, B. A.
†Russell Lowell Johnson, B. A.
†Louis Dee Mallonee, M. A.
†Earl Henry Pottinger
Bailey Edwin Ramsdell, B. A.
†Philip Golder Sanborn
†Robert Ferdnand Ewers, B. A.

Certificate

Mahlon Humphrey Caradine
Roy Martin DeWitt
Russell Lowell Johnson
Harold Myron Langer
Peter Anton Napiecinski
John Logan Newman, B. A.
Lester William Raeder
William Henry Stevenson
Arthur Albert Thiele, B. A.
James Richard Wilkinson, B. S.

† Degree conferred since commencement, 1919
‡ Degree conferred as of the class of 1918.

GRADUATE SCHOOL

Master of Arts

†John Alley, B.A. (Harvard University) in Political Science
Carl Arthur Anderson, B.A. (Augustana College) Semitic Languages
†Zeta Anderson, B.A. (Cornell College, Mt. Vernon, Ia.) in Romance Languages
Lydia Andrea, B.A. (Milwaukee Downer College) in Economics
Ruth Laura Beyer, B.A. (University of Wisconsin) in German
†Charles C. Bishop, B.A. (University of Wisconsin) in Education
Alice Ruth Boyd, B.A (Milton College) in English
Lydia Anna Brickbauer, B.A. (Ripon College) in History
Harold Rozelle Bruce, B.A. (Beloit College) in Political Science
Adelaide Barthlof Burdick, B.A. (Milton College) in English
Grace Raymond Cady, B.A. (University of Wisconsin) in Latin
†Charles King Chapman, B.A. (Denison University) in Geography
†Guy Shimer Cook, B.A. (University of Missouri) in Physics
†Charles Ernest Decker, B.A. (Aurora College) in Education
James Lee Douglas, B.A. (University of Wisconsin) in Education
†Stella Price Earnest, B.A. (Kansas University) in Romance Languages
Helen Orissa Eaton, B.A. (University of Wisconsin) in German
Edna Eimer, B.A. (University of Wisconsin) in English
Anna Mason Ely, B.A. (University of Wisconsin) in Economics
†Elsie May Ely, B.A. (Oberlin College) in English
Marion Field Frank, Ph.B. (Grinnell College) in Education
Ruth Frantz, B.A. (Pomona College) in Public Speaking
Mary Eleanor Gassaway, B.L. (University of California) in French
†Olga Charlotte Gibbens, B.A. (Fairmount College) in English
Milton Clarence Gugler, B.A. (Washburn College) in Botany
†Grace Maybelle Hansen, B.A. (Culver Stockton College) in Botany
†Anna Heise, B.A. (University of Wisconsin) in Romance Languages
Joyce Oramel Hertzler, B.A. (Baldwin-Wallace College) in Sociology
†Clarence Addison Hibbard, B.A. (University of Wisconsin) in English
†Joseph Edwin Howe, B.A. (Winona College) in History
Julia Day Ingersoll, B.A. (Colorado College) in French
Cyril Moreau Jansky, B.A. (University of Wisconsin) in Physics
Iva Nodene Ketcham, B.A. (University of Wisconsin) in French
Eve Tenney Knower, B.A. (University of Wisconsin) in Philosophy
Elizabeth Barbara Krafka, B.A. (Lake Forest College) in Zoology
Frederick William Kranz, B.A. (Lawrence College) in Physics
Esther Eugene Littig, B.A. (University of Wisconsin)
†Agnes Celestine Loughlin, B.A. (University of Wisconsin) in Public Speaking
Alice L. McCarthy, B.A. (University of Wisconsin) in History
Glenn Evelyn Miller, B.A. (Milwaukee-Downer College) in Economics
Morton Earl Mix, Ph.B. (Alfred University) in German
Aloysius J. Muench, in Economics
Eleanor Janet Murphy, B.A. (University of Wisconsin) in Botany
Mary Augusta Nourse, Ph.B. (University of Chicago) in History
†Stanley Reginald Oldham, B.A. (Lebanon Valley College) in Education

† Degree conferred since commencement, 1919.

†Ruth Harwood Olmsted, B.A. (Mt. Holyoke College) in Sociology
†Mary Cora Penberthy, B.A. (Oberlin College) in English
†Frank James Pyle, B.A. (University of West Virginia) in Education
Hemendra Kisor Rakshit, B.A. (University of Wisconsin) in History
Verna Florence Rudolph, B.A. (Carroll College) in English
Brighidin Trumble Scallon, B.A. (Trinity College) in French
Martha Alvina Schacke, B.A. (University of Wisconsin) in Botany
Marguerite Barbara Schubert, B.A. (St. Mary's College) in English
Willard Mallalien Smith, B.A. (Lawrence College) in English
†Arthur Dodd Snyder, B.A. (Lafayette College) in Mathematics
Frank Arthur Sprague, B.A. (Tulane University) in Spanish
†Meta Mary Steinfort, B.A. (University of Wisconsin) in German
†William Anderson Sutherland, B.A. (University of Virginia) in Economics
Frederic Chi-Yuan Sze, B.A. (Harvard University) in Economics
Chloe Elizabeth Tilden, B.A. (University of Wisconsin) in French
Abby Beach Tillotson, B.A. (Vassar College) in English
Frank Ernest Wagg, B.A. (University of Manitoba) in Economics
O. Douglas Weeks, B.A. (Ohio Wesleyan University) in Political Science

Master of Science

Edward Powell Childs, B.S. (Denison University) in Education
Agnes Conrad, B.S. (University of Arizona) in Psychology
Erwin George Gross, B.S. (University of Wisconsin) in Agricultural Chemistry
Alfred E. Koehler, B.S. (University of Wisconsin) in Agricultural Chemistry
Mary Frances Little, B.S. (University of Wisconsin) in Agricultural Bacteriology
Marie Kathryn Lottes, B.S. (University of Wisconsin) in Agricultural Bacteriology
Elmer Martin Nelson, B.S. (University of Wisconsin) in Agricultural Chemistry
Armand James Quick, B.S. (University of Wisconsin) in Chemistry
Edwin Frank Schneiders, B.S. (University of Wisconsin) in Medicine
Walter Theodore Schrenk, B.S. (Monmouth College) in Chemistry
†Sister Mary Ellen O'Hanlon, B.S. (Saint Clara College) in Botany
Charles Mervyn Slagg, B.S. (University of Wisconsin) in Plant Pathology
Hugo Henry Sommer, B.S. (University of Wisconsin) in Agricultural Chemistry
†William Frederick Sudro, B.S. (University of Michigan) in Pharmacy
Frederick Lundy Thomsen, B.S. (Maryland Agricultural College) in Agricultural Economics

Master of Philosophy

Kwang-Yee Lieu, B.A. (The Government University of Peking) in Economics
†Alfred D. Mueller, Ph.B. (University of Wisconsin) in Education
John William Riley, Ph.B., (University of Wisconsin) in Political Science
Lyman Dwight Wooster, B.A. (Kansas State Normal School) in Education
†Zenas Beach Wallin, Ph.B. (University of Wisconsin) in Agricultural Economics

†Degree conferred since commencement 1919.

Civil Engineer

Leslie Flanders Van Hagan, B.S. (University of Wisconsin) The appraisal of railway roadbed

Mechanical Engineer

Armin Elmendorf, M.S. (University of Wisconsin) The design of plywood for aircraft

Electrical Engineer

Ernest Joseph Steinberg, B.S. (University of Wisconsin) Development of street railway service standards for the city of Milwaukee

Chemical Engineer

Francis Edwin Bash, B.S. (University of Wisconsin) The manufacture of constantan for thermocouples

Earl Chambers Dexheimer, B.S. (University of Wisconsin) The disposal of waste from ammonia recovery in by-product coke oven plants

Doctor of Philosophy

Otho Clifford Ault, B.A. (Defiance College) in Agricultural Economics, Economics, and Sociology
The peanut as an agricultural crop

John Donald Black M.A. (University of Wisconsin) in Economics and Sociology
Land tenure in Wisconsin with special reference to the land tenure stages

†Mabel Mary Brown, M.A. (University of Wisconsin) in Botany and Zoology
The distribution of sexual characters and regeneration in Funaria Hygrometrica (L) Sibth

Mary Van Rensselaer Buell, M.A. (University of Wisconsin) Agricultural Chemistry, Chemistry and Physiology
Studies of blood regeneration with special reference to the effect of hemorrhage or alkaline reserve and nitrogen metabolism.

Luther Parris Byars, M.S. (University of Wisconsin) in Plant Pathology and Botany
Studies upon the plant parasitic nematodes and their control

Elizabeth Conrad, M.A. (University of Wisconsin) in Romance Languages and Comparative Literature
Evolution of French criticism of the social drama of Ibsen from 1819–1906

†Charles Goggio, M.A. (University of Wisconsin) in Italian and French
L'uso in Italiano del condizionale passato per il presente dello stesso modo

Mary Amelia Grant, M.A. (University of Kansas) in Latin and Greek
The ancient rhetorical theories of the laughable in Cicero and Horace

Clara Louise Haessler, M.A. (University of Wisconsin) in German and Philosophy
Hebbel's Moloch and its religious problems

† Degree conferred since commencement, 1919.

†Ernest Alexander Heilman, M.A. (University of Wisconsin) in German Philosophy, German Literature and English
Die Sprache des Hans Sachs. I. Teil, Formenlehre

Louise Rowell Herrick, M.A. (University of Wisconsin) in French and History.
Contribution of the fabliaux to our knowledge of medieval civilization

Paul Knaplund, M.A. (University of Wisconsin) in European History and Norse
The defense question in the British colonies with emphasis on 1859-1914

Howard Gove MacMillan, Ph.B. (Brown University) in Plant Pathology and Botany
Fuserium-blight of potatoes under irrigation

John Arthur Montgomery, M.S. (Iowa State University) in Chemistry and Chemical Engineering
A study of aluminum and its copper, zinc, and nickel alloys, with special reference to their single potentials

Jane Isabell Newell, M.A. (University of Wisconsin) in Sociology, Economics and History
The Woman's Christian Temperance Union in America

Chester Arthur Pierlé, M.S. (Lehigh University) in Chemistry, Agricultural Chemistry and Physics
A contribution to the chemistry of uranium

William Francis Raney, B.A. (Oxford University) in History and Romance Languages
The diplomatic and military activities of Canada, 1861–1865, as affected by the American civil war

William Oscar Richtmann, B.S. (University of Wisconsin) in Pharmacy and Botany
Camphor: a pharmaceutical and pharmacognostical study

Elizabeth A. Seeberg, M.A. (University of Wisconsin) in Psychology, Education and German
Discrimination and recognition of complex visual impressions

Louis Wann, M.A. (Columbia University) in English and Comparative Literature
The oriental in the English drama of the sixteenth and seventeenth centuries

George Ellas Wisewell, M.A. (Johns Hopkins University) in Spanish and French
Finite moods and tenses in the Don Quijote of Cervantes

HONORARY DEGREES

Doctor of Laws

Samuel Plantz, President of Lawrence College
Marcel Knecht, of the French High Commission to America

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†Degree conferred since commencement, 1919.

GRADUATION HONORS

Honors for Theses

College of Letters and Science

Helen Augusta Borchers, in Geography
Geographical influences determining the location and development of the principal cities of Wisconsin
Bernardo Whitfield Elsom, in Economics
Public and private schools in Wisconsin.
Mildred Lucile Frazier, in Physics
The motional impedance of telephone receivers
Erwin Theodor Mohme, in German
Ethical and social problems in the novels of Wilhelm v. Polenz
Jacob Perlman, in Economics
The problem of railroad labor during the war and after
Addie Emma Pieh, in Botany
Cultural studies of *aspergillus* and *penicillium*
Edward Frank Pritzlaff, in Economics
The national war labor board
Nils Eivind Stabo, in Economics
The history and the needs of an American merchant marine
Bessie Lillis Taylor, in Physics
The motional impedance of telephone receivers

College of Agriculture

Mariana Theresa Sell, in Home Economics
Commercial sugars as substitutes for dextrose with certain yeasts
Charles Wesley Turner, in Animal Husbandry
A study of the conditions affecting the quality and character of raw milk

STUDENTS

Graduates

Fellows and Scholars

[1] First semester.
[2] Second semester.

Anderson, Carl Arthur — *East Tawas, Mich.*
M.A., University of Wisconsin
Fellow in Semitic Languages and Hellenistic Greek

Andrews, Joy Ella — *Portage*
B.A. University of Wisconsin
Fellow in Zoology

Ashby, Sarah Elizabeth — *Indianapolis, Ind.*
B.A., University of Wisconsin
Scholar in English

Bauer, Frederick Charles — *Madison*
M.S., University of Illinois
Scholar in Soils

Bausch, Mary Maretra — *Everett, Pa.*
M.A., University of Pennsylvania
Alfred Uihlein Fellow in German

Breck, Marion Florilla s e — *Milwaukee*
B.S., University of Wisconsin
School of Education Fellow in Home Economics

Brenner, Erwin Charles — *Milwaukee*
B.S., University of Wisconsin
Wisconsin Gas Association Fellow in Chemical Engineering

[1] Brown, Horatio Whittemore — *Concord, Mass.*
B.S., Massachusetts Institute of Technology
Fellow in Civil Engineering

Browne, Frederick Lincoln — *Madison*
B. Chem., Cornell University
Dupont Fellow in Chemistry

Bryan, Walter Reid — *Madison*
B.A., University of Wisconsin
Fellow in Greek

Buell, Helen DeYoe — *Madison*
B.A., University of Wisconsin
Scholar in Romance Languages

Call, Loyd Leonard — *Marshall*
B.S., University of Wisconsin
Fellow in Physics

Carlson, Charles Gordon — *Ishpeming, Mich.*
B.A., University of Wisconsin
Fellow in Geology

Carroll, Burt Haring — *Madison*
B. Chem., Cornell University
Fellow in Chemistry

Chabaud, Gaston Edward — *Aix de Provence, France*
B.A., University of Aix
Honorary Scholar in French

Clayton, Edward Eastman — *Madison*
M.S., University of Chicago
Scholar in Plant Pathology

Conley, Brooks Lawson — *Madison*
B.S., University of Wisconsin
Cutler-Hammer Research Fellow in Physics

Coxen, Harry Herschell s e — *Commerce, Tex.*
B.S., Kansas Agricultural College
Industrial Scholar in Manual Arts

Crandall, Ada Elizabeth — *Milton*
B.A., Milton College
Milton College Scholar (French)

Davies, Catherine Nye — *Waukesha*
B.A., Carroll College
Carroll College Scholar (English)

[2] Davis, Jean Scobie — *Princeton, N. J.*
B.A., Bryn Mawr College
Scholar in Economics

Deakin, Florence Isabelle — *Waukesha*
B.A., University of Wisconsin
Scholar in Romance Languages

Dietrich, Ethel Barbara — *Racine*
M.A., University of Wisconsin
Fellow in Economics

Dolch, Alfred Karl — *Cleveland, Ohio*
B.A., Western Reserve University
Henry Schoellkopf Scholar in German

Floyd, Eustace Vivian — *Manhattan, Kan.*
B.S., Earlham College
Honorary Fellow in Physics

Foster, Arthur Crawford — *Atlanta, Ga.*
B.S., North Carolina State College
Fellow in Plant Pathology

Garwood, Ruth Emma — *Totenville, N. Y.*
B.A., University of Wisconsin
Fellow in Romance Languages

Haley, Joseph Boyd — *Elberton, Ga.*
M.A., University of Wisconsin
Adams Fellow in Greek

[1] Harvey, Paul Atwood — *Dayton, Wash.*
M.S., University of Minnesota
Honorary Fellow in Botany

Hathaway, Lillie Vinal — *New Bedford, Mass.*
M.A., University of Wisconsin
Henry Gund Scholar in German

Hatton, Eleanor Mary — *Neenah*
B.A., Milwaukee-Downer College
Milwaukee-Downer College Scholar (History)

Hughes, Alice Ethel — *Portland, Ore.*
M.A., University of Wisconsin
Fellow in Latin

Hurlbut, Ruth Bingham s e — *Omro*
B.A., University of Wisconsin
School of Education Fellow in French

Jensen, Dagmar Christine — *Racine*
B.A., University of Wisconsin
Scholar in English

Jones, Sarah Van Hoosen — *Chicago, Ill.*
M.S., University of Wisconsin
Scholar in Genetics

Jörstad, Ivar — *Kristiania, Norway*
Graduate, Kristiania University
Honorary Fellow in Plant Pathology

Killough, Hugh Baxter — *Center Point, Tex.*
B.S., Texas Agricultural and Mechanics College
Scholar in Agricultural Economics

Kinsman, Georgia Bernice — *Appleton*
B.A., Lawrence College
Lawrence College Scholar (History)

Knower, Eve Tenny — *Interwald*
M.A., University of Wisconsin
Fellow in Philosophy

Koehler, Alfred E. *Mishicot*
M.S., University of Wisconsin Fellow in Agricultural Chemistry
Kremers, Elsa *Madison*
B.A., University of Wisconsin Albert C. Elser Scholar in German
Landwehr, Margaret Emma *Milwaukee*
B.A., University of Wisconsin Fred Vogel Fellow in German
Lenfest, Beulah Etta *Anoka, Minn.*
B.A., Hamline University Scholar in American History
Leonard, Clifford Shattuck *Springfield, Mass.*
M.S., Yale University Newport Chemical Company Fellow
McMurry, Donald LeCrone *Nashville, Tenn.*
M.A., University of Wisconsin Honorary Fellow in History
[2] Meyer, Marguerite Anna *Holland, Mich.*
B.A., Hope College Scholar in French
Mix, Hannah Arlotta Bass *Alfred, N. Y.*
Ph.B., Alfred University Albert Trostel Scholar in German
Mix, Morton Earl *Alfred, N. Y.*
Ph.B., Alfred University Gustav Pabst Fellow in German
Mohme, Erwin Theodor *Kewaskum*
B.A., University of Wisconsin Joseph Schneider Fellow in German
Monteith, John, Jr. *Chatham, N. J.*
M.S., Rutgers College Horlick Scholar (Plant Pathology)
Moore, Emmeline *Churchville, N. Y.*
Ph.D., Cornell University
Honorary Fellow in Plant Pathology and Bacteriology
Mueschke, Paul *Westfield, Tex.*
M.A., University of Texas Albert F. Gallun Fellow in German
Murphy, Ray V. *Madison*
M.S., University of Wisconsin Honorary Fellow in Chemistry
Nash, John William *Juneau*
B.A., University of Wisconsin Scholar in European History
Nelson, Elmer Martin *Madison*
M.S., University of Wisconsin
Scholar in Genetics and Agricultural Chemistry
[2] Nordlie, Herman Clarence *Moorhead, Minn.*
M.A., University of Wisconsin Honorary Fellow in History
Outhouse, Julia Pratt *Madison*
B.S., University of Wisconsin Fellow in Home Economics
Oyster, Leone *Ripon*
B.A., Ripon College Ripon College Scholar (Chemistry)
Peckham, Harry Houston *LaFayette, Ind.*
M.A., University of Chicago Mary M. Adams Fellow in English
Peters, Leo James *Edgemont, S. D.*
B.S., University of Wisconsin Fellow in Electrical Engineering
Putcamp, Fannie Elizabeth *Carbondale, Ill.*
B.A., Stanford University Scholar in Latin
Ramsay, Ralph Edwin *Beloit*
B.S., University of Wisconsin Scholar in Chemical Engineering
Rief, Herman Peter *Madison*
B.S., University of Wisconsin Hollister Fellow in Pharmacy
Roberts, Edward Howell *Madison*
B.A., University of Wisconsin Scholar in Semitic Languages

Schafheitlin, Anna — *Canning, Nova Scotia*
M.A., McGill University — Charlotte Trostel Fellow in German
[2] Schuller, Wera Charlotte — *Oberlin, Ohio*
B.A., Oberlin College — Albert Trostel Scholar in German
Sellers, James L — *Neosha Rapids, Kan.*
B.A., Kansas University — Fellow in American History
Shaw, Myrtle Annette — *Union, Ill.*
B.S., Beloit College
Beloit College Scholar (Agricultural Bacteriology)
[2] Shepherd, James William s e — *Austin, Tex.*
M.A., University of Texas — Fellow in Education
Skinner, Helen Harriet — *Madison*
B.A., University of Wisconsin — Scholar in Chemistry
Sloan, Charles Findley — *Pomona, Kan.*
B.S., Kansas University — Scholar in Hydraulics
Smith, Paul Samuel — *Richmond, Ind.*
B.A., Earlham College — Fellow in European History
[1] Stuart, Graham Henry — *Cleveland, Ohio*
M.A., University of Wisconsin — Fellow in Political Science
Sykora, James — *Batavia, Ill.*
B.S., University of Wisconsin
National Fertilizer Association Fellow in Soils
Tabor, Henry Whitney — *Escondido, Cal.*
B.S., University of Wisconsin — [1] Scholar in Hydraulic Engineering.
[2] Fellow in Civil Engineering
Toole, Eben Henry — *Madison*
M.A., University of Wisconsin — Fellow in Botany
Tylor, William Russell — *Madison*
M.A., University of Wisconsin — Fellow in Sociology
Ufford, Celian — *Spokane, Wash.*
B.A., Harvard University — Scholar in Economics
Wadepuhl, Walter — *New York, N. Y.*
M.A., Columbia University — Charles F. Pfister Fellow in German
Weeks, Oliver Douglas — *Marion, Ohio*
M.A., University of Wisconsin — Scholar in Political Science
[1] Wertz, Virgil Roe — *Madison*
B.S., University of Wisconain — Scholar in Economics
Whelan, Julia Pricilla — *Mondovi*
B.S., University of Wisconsin
Newport Chemical Company in Chemistry
Wiese, Hilda Frieda — *Madison*
B.S., University of Wisconsin
Newport Turpentine and Rosin Company Fellow
Working, Holbrook — *Tucson, Ariz.*
M.A., Cornell University — Fellow in Agricultural Economics
Yapp, William Wodin — *Urbana, Ill.*
M.S., University of Illinois — Honorary Fellow in Genetics
Youngblood, Bonney — *College Station, Tex.*
M.S., Texas Agricultural and Mechanical College
Honorary Fellow in Agricultural Economics

Other Graduates

Abbott, Roy Linn	*Cedar Falls, Iowa*	
M.S., University of Wisconsin	Zoology	
Acton, Hul-Cee Marcus	*Glasgow, Ky.*	
B.A., Georgetown University	French	
Adair, G. Leonard	*La Crosse*	
B.A., University of Wisconsin	Geology	
Adriano, Felipe Tiongson	*Malolos, P. I.*	
B.Agr., University of the Philippines	Chemical Engineering	
Albertz, Hugo William	*Madison*	
B.S., University of Wisconsin	Agronomy	
Alderman, William E.	*Madison*	
M.A., Hiram College	English	
Altmeyer, Arthur J.	*Madison*	
B.A., University of Wisconsin	Economics	
Anderson, Clifford Norman	*Scandinavia*	
Ph.B., University of Wisconsin	Physics	
Anderson, Elna Constance	*North Crandon*	
B.A., University of Wisconsin	Economics	
Anderson, Lewis Orvin	*Barneveld*	
M.A., University of Wisconsin	Philosophy	
Asada, Schunichi	*Tokyo, Japan*	
B.A., Waseda University	Political Science	
Atkins, Irma Alice	*Elkhart, Ind.*	
B.A., University of Wisconsin		
Atwood, Fannie	*Madison*	
B.A., University of Wisconsin		
Baber, Roy Erwin	*Concordia, Kan.*	
B.A., Campbell College	Economics	
Bahadur, Mohindra	*Deccan, India*	
B.A., University of Punjab, India	Genetics	
Bailey, Ernest Hayden	*Madison*	
B.S., University of Wisconsin		
Baird, Edgar Alan	*Madison*	
M.A., University of Wisconsin	Botany	
Baker, Oliver Edwin	*Chevy Chase, Md.*	
M.A., Columbia University	Economics	
Ballard, Charles McEloy	*Madison*	
B.Litt., Kenyon College	Economics	
Batchelor, Chauncy Cushing	*Cambridge, Mass.*	
M.A., Harvard University	English	
Bausman, John Watts Baer	*Lancaster, Pa.*	
B.S., Lafayette College	Animal Husbandry	
Beard, Harry Randall	*Sheffield, Ala.*	
B.A., University of Colorado	Chemistry	
Bell, Edna Faye s e	*Oxford, Ind.*	
B.Litt., Ohio Wesleyan University	Education	
Benkert, Roy Frederick	*Monroe*	
B.S., University of Wisconsin	Economics	
Bernardo, Gabriel Adriano w l s	*Malalos, Bulacan, P. I.*	
B.A., University of the Philippines	Economics	

Beyer, Adelbert John	*Milwaukee*
B.A., University of Wisconsin	History
Bitterman, Ruth Genevieve	*Madison*
B.A., University of Wisconsin	Plant Pathology
Blanchard, William Oscar	*Madison*
Ph.M., University of Wisconsin	Geology
Blanco, Galo Wenceslao	*Madison*
B.S., University of Michigan	Chemistry
Blattner, David Jones	*Madison*
B.S., University of Wisconsin	Commerce
Bleyer, Alice Haskell	*Madison*
M.A., Columbia University	English
Bohnson, Van Lorens	*Madison*
M.S., University of Wisconsin	Chemistry
Bohstedt, Gustav	*Madison*
M.S., University of Wisconsin	Animal Husbandry
Botts, Elbert Dysart	*Lancaster, Mo.*
B.A., Albany College	Chemistry
Bowden, Beulah May	*Brodhead*
Ph.B., University of Wisconsin	History
Brabant, Josephine Mary	*Madison*
B.A., University of Wisconsin	English
Bradley, Robert Foster, Jr.	*Madison*
M.A., University of South Carolina	French
Brager, Clarissa	*Madison*
B.A., North Dakota University	English
Brandt, Walther Immanuel	*Macfarland*
M.A., University of Wisconsin	History
Briggs, Howard Bover	*Madison*
B.A., University of Wisconsin	Physics
Brophy, John Anthony	*Butte, Mont.*
B.A., Gonzaga University	Animal Husbandry
Brosius, Rudolph Frederic	*Madison*
B.A., University of Minnesota	English
Brown, Benjamin Franklin	*Bryan, Tex.*
B.S., Northwestern University	Agricultural Economics
Brown, Lucy Caroline	*Concord, Mass.*
B.A., Smith College	Education
Brown, Porter Harris	*St. Louis, Mo.*
B.A., University of Wisconsin	Economics
Browning, Harold William	*Madison*
M.S., University of Wisconsin	Botany
Bruce, Harold Rozelle	*Madison*
M.A., University of Wisconsin	Political Science
Brunkow, Orvin Richard	*Darlington*
B.S., University of Wisconsin	Agricultural Chemistry
Bryan, Florence	*Hamilton, N. Y.*
M.A., Western Reserve University	English
Bryan, Ollie Clifton	*Elba, Ala.*
B.S., Alabama, Polytechnic Institute	Soils
Buechel Frederick Anthony	*Madison, S. Dak.*
M.Ph., University of Wisconsin	Economics

Bullock, Dillman Samuel — *Madison*
M.A., Michigan Agricultural College — Animal Husbandry
Burrow, Herbert Theodore — *Beaver Dam*
B.A., University of Wisconsin — Economics
Burrows, Robert Newton — *Nacogdoches, Tex.*
M.A., University of Wisconsin — Agricultural Economics
Butt, Jane H. s e — *Viroqua*
B.A., University of Wisconsin — Education
Cable, Donald Elmer — *Madison*
B.S., Armour Institute of Technology — Chemistry
Calderwood, Howard Newton, Jr., — *Madison*
B.S., Kansas University — Chemistry
Calkins, Elsie Leona — *Portland, Ore.*
B.S., Reed College — Home Economics
Campbell, Helen Douglas — *Berkeley, Cal.*
B.A., University of California — English
Campbell, Jessie — *Des Moines, Iowa*
B.S., Iowa State College — Home Economics
Carlson, Margery Claire — *LaSalle, Ill.*
B.S., Northwestern University — Botany
Carothers, Andrew Beattie — *Starkville, Miss.*
B.S., Mississippi Agricultural and Mechanical College — Agricultural Economics
Carpenter, Otto Frank — *Madison*
M.A., University of Wisconsin — Economics
Carter, James Prescott — *Lynchburg, Va.*
B.S., Virginia Military Institute — Economics
Carter, Maud Evelyn — *Ripon*
B.A., Ripon College — Home Economics
Cevallos, Felipe Olagner — *Madison*
B.Agr., University of the Philippines — Animal Husbandry
Chase, Ruth Wayland — *Madison*
B.A., University of Wisconsin — Zoology
Cheetham, Harold Cowan — *Milwaukee*
B.S., University of Wisconsin — Chemistry
Cheney, Russell Sterling — *Barron*
B.A., Lawrence College — Economics
Chow, Ming-Heng — *Shanghai, China*
B.S., University of Wisconsin — Chemistry
Chu, Keats Synn — *Ningpo, China*
B.A., University of Wisconsin — Economics
Churchill, Helen Petrovna — *Madison*
B.S., University of Wisconsin — Agricultural Chemistry
Clark, Stella Payne — *Madison*
B.S., Ohio Wesleyan University — Manual Arts
Clark, Willis Henry — *Madison*
M.S., University of Michigan — Chemistry
Clugston, Phil Rittenhouse — *Crawfordsville, Ind.*
B.A., Wabash College — English
Coddington, Avis — *Milwaukee*
B.A., Wells College — Commerce
Cole, Archie Evans m — *Madison*
B.A., Ohio Wesleyan University — Zoology

Cole, Arthur Vincent m — *Mauston*
B.A., University of Wisconsin — Medicine
Colpitts, Mary Alice — *Point de Bute, N. B., Canada*
M.A., Cornell University — Mathematics
Conklin, Lauretta Bugher — *Winchester, Ind.*
B.A., University of Wisconsin — Romance Languages
Conover, Frederick LeRoy — *Madison*
B.A., University of Wisconsin — Chemistry
Conover, Julian Darst — *Madison*
B.A., University of Wisconsin — Geology
Copp, Ellen Adelaide — *Madison*
LL.B., University of Wisconsin — Economics
Cowden, Mary Mabel — *Monmouth, Ill.*
B.A., Monmouth College — History
Cox, Alonzo Bettis — *Stephenville, Tex.*
M.A., University of Texas — Economics
Crandall, Cecile Irma — *Milton*
B.A., Milton College — English
Crew, Alice Hargrave — *Evanston, Ill.*
B.A., Rockford College — Chemistry
Crothers, Harold Marion — *Madison*
E.E., University of Wisconsin — Electrical Engineering
Cunningham, Bert — *Madison*
M.A., Trinity College — Zoology
Cunningham, Cornelius Carman — *Madison*
B.A., Beloit College — English
Dahm, Thomas Matthew — *Madison*
M.A., Northwestern University — Physics
Davis, James Elmer — *Barneveld*
M.A., University of Wisconsin — Mathematics
DeCourcy, Mildred Claire — *St. Louis, Mo.*
B.A., Washington University — English
Dejean, Emilie Henriette — *Bordeaux, France*
Licence es lettres, University of Bordeaux — English
Dennison, Jackson Belden — *Onslow, Iowa*
M.A., University of Wisconsin — Economics
Dickson, James Geere — *Madison*
M.S., University of Wisconsin — Botany
Dixon, Raymond Ephraim — *Dalton*
M.A., University of Wisconsin — English
Dooley, Mabel — *Madison*
M.A., University of Wisconsin — English
Doran, Herbert Benjamin — *Fond du Lac*
B.A., Lawrence College — Economics
Douglas, James Lee s e — *Madison*
M.A., University of Wisconsin — Education
Downing, Harold Landwith — *Radnor, Pa.*
B.A., Pennsylvania State College — Chemistry
Drotning, Anna Elizabeth — *Deerfield*
B.S., University of Wisconsin — Home Economics
Ede, Richard Hoyt — *Madison*
B.A., University of Wisconsin — Geology
Edwards, Everett Carlyle — *Ashland*
B.A., University of Wisconsin — Geology

Eimer, Edna — *Milwaukee*
M.A., University of Wisconsin — English
Eldridge, John Adams — *Madison*
B.A., Wesleyan University — Physics
Ellis, Ned Royce — *Lancaster*
B.S., University of Wisconsin — Agricultural Chemistry
Elvehjem, Oswald M. — *Macfarland*
B.A., Luther College — Commerce
Englund, Eric — *Corvallis, Ore.*
B.A., University of Oregon — Agricultural Economics
Evans, Anna Louise — *Spiceland, Ind.*
B.A., Indiana University — Economics
Fahlberg, Ernest David — *Madison*
B.S., University of Wisconsin — Chemical Engineering
Fargo, John Merrill — *Mt. Horeb*
B.S., University of Wisconsin — Animal Husbandry
Farnsworth, Harry Edward — *Ripon*
B.A., Ripon College — Physics
Feldman, Jesse Hugo — *Madison*
Ph.B., University of Chicago — English
Felsher, Hannah m — *Madison*
B.S., University of Wisconsin — Pathology
Feltges, Edna May s e — *Peoria, Ill*
Ph.B., University of Chicago — Education
Finley, Kathleen Preston — *Williamsburg, Ky.*
B.A., Transylvania College — Commerce
Flanner, Philip Douglas — *Blackwell*
B.S., Cornell University
Flemming, Edwin George — *Madison*
B.A., Cornell University — Public Speaking
Fletcher, Catharine Custis — *Wilmington, Del.*
B.S., Women's College of Delaware — Chemistry
Forster, George Francis — *Madison*
B.A., Emory College — Zoology
Frazier, Mildred Lucile — *Madison*
B.A., University of Wisconsin — Physics
Frazier, William Carroll — *Madison*
B.S., University of Wisconsin — Agricultural Bacteriology
French, Delbert Ransom — *Portland, Ore.*
B.S., Reed College — Agricultural Economics
Frey, Charles N. — *Madison*
M.S., University of Wisconsin — Botany
Frye, Miriam Louise — *Madison*
B.A., University of Wisconsin — Economics
Gaarder, Pearl Rosina — *Orfordville*
B.A., Milton College — Latin
Galpin, Thomas Milledge, Jr. — *St. Mathews, S. C.*
B.A., Mercer College — English
Gardiner, Glenn Lion — *Edgerton*
B,A.. University of Wisconsin — Economics
Garey, Alva Edward — *Edgerton*
LL.B., University of Georgia — Political Science

Gentner, Louis Gustave — *Madison*
M.S., University of Wisconsin — Economic Entomology
Gerry, Eloise — *Madison*
M.A., Radcliffe College — Botany
Getchell, Robert Ward — *Cedar Falls, Iowa*
M.S., University of Wisconsin — Chemistry
Gibbs, William Merriott — Madison
M.S., University of Wisconsin — Agricultural Bacteriology
Gilbert, Donald Monroe — *Madison*
M.A., West Virginia University — Spanish
Glaeser, Nina Gertrude — *Madison*
B.A., Mt. Union College
Godkin, James — *Shelton, Conn.*
M.S., Michigan Agricultural College — Plant Pathology
Gray, John — *Ukiah, Cal.*
B.A., Leland Stanford University — Plant Pathology
Green, Carroll Gardner — *Brookings, S. Dak.*
B.S., So. Dakota State College — History
Green, Jerome Boley — *New York, N. Y.*
B.A., College of the City of New York — Physics
Greene, Dorothy Nichols — *Milwaukee*
B.A., University of Wisconsin — English
Greenleaf, Charles Hunt — *Madison*
M.A., University of Wisconsin — Romance Languages
Greenslade, Grover Rawle — *Madison*
M.A., University of Washington — Physics
Grosh, Pearl Marie m — *Nappanee, Ind.*
B.A., Manchester College — Medicine
Gross, Erwin George — *Madison*
M.S., University of Wisconsin — Agricultural Chemistry
Groves, Harold Martin — *Lodi*
Ph.B., University of Wisconsin — Economics
Grundler, Augustus Ferdinand — *Madison*
University of Freiburg — Romance Languages
Gugler, Milton Clarence — *Woodbine, Kan.*
M.A., University of Wisconsin — Botany
Gunderson, Lewis Olin — *Colfax*
B.A., St. Olaf College — Chemical Engineering
Haake, Alfred Paul — *Madison*
M.A., University of Wisconsin — Economics
Halverson, Donald Littlejohn — *Whitewater*
M.A., University of Wisconsin — Romance Languages
Haner, Reba Cordelia — *Sun Prairie*
B.S., University of Wisconsin — Agricultural Bacteriology
Hankinson, Hazel — *Madison*
B.A., Lawrence College — Soils
Hanley, Marguerite Catherine John — *Portage*
B.A., University of Wisconsin — Chemistry
Hannan, Loretta Frances — *Milwaukee*
B.A., University of Wisconsin
Harbour, Nina — *Orange, Cal.*
B.A., Leland Stanford University — Economics

Hargrave, Frank F — *Greencastle, Ind.*
S.T.B., Boston University — Agricultural Economics
Harris, Carl Quantick — *Chicago, Ill.*
B.S., University of Wisconsin — Animal Husbandry
Hart, Dorothy — *Madison*
B.A., University of Wisconsin — Economics
Hartwell, Richard Winsor s e — *Madison*
B.S., University of Wisconsin — Economic Entomology
Hatch, Lucile Dorothy — *Baraboo*
B.A., University of Wisconsin — Public Speaking
Hawkins, Pliny Haine — *Madison*
M.S., Montana Agricultural College — Botany
Hawthorn, Horace Boies — *Castana, Iowa*
M.S., Iowa State University — Economics
Hay, Donald Leith — *Milwaukee*
B.S., University of Wisconsin — Physics
Hayden, James Matthew — *Madison*
B.A., University of Wisconsin — Accounting
Hayes, Augustus Washington — *Madison*
M.S., University of Wisconsin — Agricultural Economics
Heddle, John Ronald — *Madison*
B.A., University of Wisconsin — Botany
Hélie, Fernande Marie-Louise — *Vitre, France*
Licence es Lettres, University of Rennes — English
Hertzler, Joyce Oramel — *Berea, Ohio*
M.A., University of Wisconsin — Economics
Herzog, Lewis Wolfram — *Waukesha*
B.S., Carroll College — Chemistry
Heuer, Josephine — *Madison*
B.A., University of Wisconsin
Hickey, Philip John — *Cleveland, Ohio*
B.S., University of Wisconsin — Chemistry
Hoffman, Rudolph Oscar — *Madison*
Ph.C., State University, Ghent, Belgium — French
Hoffmeyer, Henry G. G. — *Florence, S. C.*
B.S., Clemson College — Agronomy
Holden, Eugene Davenport — *Madison*
B.S., University of Wisconsin — Agronomy
Hollard, Henry Walter — *Highland, Ill.*
B.S., University of Illinois — Dairy Husbandry
Holway, Ida Mackin — *Madison*
B.A., Lawrence College — Economics
Hoover, William H. — *Madison*
M.A., University of Wisconsin — Physics
*Howell, Jean Howden — *Milwaukee*
B.A., University of Wisconsin — English
Hsieh, Chia Yung — *Peking, China*
B.S., Peking College — Geology
Hulburt, Mary Ella — *Wauwatosa*
Ph.B., University of Chicago — Economics

*Died January 28, 1920.

Ingraham, Mark Hoyt — *Brooklyn, N. Y.*
B.A., Cornell University — Mathematics
Jackson, Joseph Walter — *Monroe*
B.S., University of Wisconsin — Commerce
James, Elizabeth Nina — *Platteville*
B.A., Baker University
James, Henry Francis — *Madison*
Ph.B., University of Wisconsin — Geology
Jansky, Cyril Moreau, Jr., — *Madison*
M.A., University of Wisconsin — Physics
Jargo, Rudolph Alexander — *Deerfield*
B.A., Luther College
Jenkins, Ruth Dutiln — *Madison*
B.L., Smith College — Journalism
Jennings, Anna Heise — *Madison*
M.A., University of Wisconsin — French
Jerome, Gladys S. — *Madison*
M.A., University of Wisconsin — English
Johannesen, Rolf Thorleif Horn — *Delavan*
B.A., University of Wisconsin — History
Johnson, Edward Marion — *Enterprise, Kans.*
B.A., University of Kansas — Journalism
Johnson, Jalmer Bernard — *Eau Claire*
B.S., University of Wisconsin — Pharmacy
Johnson, Lawrence Christian — *Richland Center*
B.A., Lawrence College — Political Science
Johnson, Peter Leo — *Oconomowoc*
DD. Rome (Italy) — History
Jome, Hiram Leonard — *Sawyer*
B.A., St. Olaf College — Economics
Jones, Leon Kilby — *Seattle, Wash.*
B.S., Oregon Agricultural College — Plant Pathology
Jones, Victoria E — *Madison*
B.A., University of Wisconsin — Commerce
Jordan, Brady Rimbey — *Madison*
Litt.B., Princeton University — French
Kasak, Maria Louise — *Milwaukee*
M.A., University of Wisconsin — Sociology
Keebler, Irwin Wallace — *Milwaukee*
B.S., University of Wisconsin — Chemistry
Keller, Henry Jr. — *Bellefonte, Pa.*
B.S., Pennsylvania State College — Agricultural Economics
Keller, Ulysses S. G. — *Madison*
M.D., Columbia University — Bacteriology
Khoorshid, Ardeshir Behmanji Hirji — *Secunderabad, India*
B.A., St. Xaviers College (Bombay) — Genetics
Kilness, Gideon Waldemar — *Dell Rapids, S. Dak.*
B.A., Luther College — History
King, Gertrude Phyllis — *Madison*
B.A., University of Wisconsin — Economics
Kinne, Burdette Ingersoll — *Madison*
M.A., University of Wisconsin — French

Koehler, Benjamin — *Madison*
B.A., Lawrence College — Plant Pathology
Koehler, Lucy Josephine — *Menomonee Falls*
B.A., University of Wisconsin — Home Economics
Koehler, Walter Allos — *Mishicot*
B.S., University of Wisconsin — Chemical Engineering
Kolb, John Harrison — *Madison*
M.A., University of Chicago — Agricultural Economics
Koschmann, Albert Herbert — *Wausau*
B.A., University of Wisconsin — Geology
Kraemer, Elmer Otto — *Madison*
B.S., University of Wisconsin — Chemistry
Kraus, Corinne Arline — *Marshfield*
M.A., University of Wisconsin — Economics
Krause, Arlington Colton — *Green Bay*
B.A., Lawrence College — Chemistry
Krausnick, Gertrude — *St. Louis, Mo.*
B.A., Washington University, St. Louis — History
Krohn, Carl Arthur — *Madison*
B.S., University of Wisconsin — Chemistry
Krueger, Leonard Bayliss — *Madison*
M.A., University of Pennsylvania — Economics
Lamont, Marion Elizabeth — *Madison*
B.A., University of Wisconsin — Zoology
Langdon, Grace Elizabeth — *Madison*
B.S., Elmira College — Journalism
Langer, Helen Mary — *Chicago, Ill.*
M.A., University of Wisconsin — French
Larsen, Nellie May — *Lake Geneva*
B.A., University of Wisconsin — History
Leake, Chauncy Depew m — *Madison*
Litt.B., Princeton University — Physiology
LeClair, Carl Aurie — *Madison*
M.A., University of Missouri — Soils
Lehmann, William Christian — *Madison*
M.A., Vanderbilt University
Lentz, Alvin Edward — *Mayville*
B.A., University of Wisconsin — Economics
Leslie, Eleanor Isabel — *Chicago, Ill.*
B.A., Vassar College — Medicine
Lewis, Thomas McDowell Nelson — *Watertown*
B.A., Princeton University — Animal Husbandry
Limp, Charles E. s e — *Holton, Ind.*
B.A., Indiana State Normal College — Manual Arts
Lindberg, Milton Benjamin — *Eau Claire*
B.S., Columbia University — Economics
Ling, Fengpao — *Tientsin, China*
B.A., Soochow University — Economics
Lottes, Marie Kathryn — *Madison*
M.S., University of Wisconsin — Agricultural Bacteriology
Lucas, Mildred — *Lisbon, N. Dak.*
B.A., Milwaukee Downer College
Ludden, Homer Jameson — *Mineral Point*
B.S., University of Wisconsin — Electrical Engineering

Lueck, Roger Hawks	*LaCrosse*
B.S., Carroll College	Chemistry
Lunz, Henry	*Madison*
B.S., University of Wisconsin	Agronomy
Lusch, Jay Laurence	*Madison*
M.S., Kansas State Agricultural College	Genetics
Lynn, Audie J.	*Corydon, Ky.*
M.A., Toledo University	Economics
McClintock, Helen Elizabeth	*Meadville, Pa.*
M.A., Allegheny College	French
McCraken, Duane	*Richland, Iowa*
B.A., Penn College	Economics
McKay, John Gordon	*Madison*
B.A., University of Wisconsin	Economics
McKay, Lawrence Hazelhurst	*Hendersonville, N. C.*
B.S., Virginia Mechanics Institute	Agriculture
McKinney, Harold Hall	*Madison*
B.S., University of Wisconsin	Plant Pathology
McMurray, Dorothy	*Nashville, Tenn.*
B.S., George Peabody College for Teachers	History
McNall, Preston Essex	*Manhattan, Kan.*
M.S., Kansas State Agricultural College	Agricultural Economics
McPherson, Maud Esther	*Washington, D. C.*
M.A., George Washington University	English
Madison, Lessie	*Bastrop, La.*
B.A., H. Sophie Newcomb Memorial College	English
Malone, Nina Kathleen Smith	*Madison*
B.A., University of Wisconsin	Spanish
de Manziarly, Germaine	*Paris, France*
B.A., Sorbonne University	Economics
Marks, Harold Eugene	*Madison*
B.A., University of Wisconsin	Commerce
Martin, Ella May	*Milwaukee*
B.A., Lawrence College	Botany
Mason, Ralph Bryant	*New Windsor, Ill.*
B.A., William and Vashti College	Chemistry
Megeath, Virginia Adelaide	*New York, N. Y.*
B.A., Smith College	Genetics
Meloche, Gladys Louise	*Madison*
B.S., University of Wisconsin	Home Economics
Melrose, James Albert	*Janesville*
B.A., Hamilton College	Economics
Mendenhall, Maud Hamilton	*Dyersburg, Tenn.*
B.A., Cornell University	Latin
Mendum, Samuel Weis	*Madison*
M.S., University of Wisconsin	Economics
Merrill, Lillie McDonald	*Rochester*
B.L., University of Wisconsin	Home Economics
Mertzke, Arthur John	*North Freedom*
B.A., University of Wisconsin	Economics
Metschl, John	*Milwaukee*
B.A., University of Wisconsin	Chemistry
Middleton, Forest Case	*Madison*
B.A., University of Wisconsin	English

Miller, Glenn Evelyn — *La Valle*
M.A., University of Wisconsin — Economics
Miller, J. Haynes — *Madison*
B.S., Georgetown College — Agricultural Education
Miller, Sidney Lincoln — *Madison*
M.A., University of Wisconsin — Economics
Minsaas, Joseph — *Trondhjem, Norway*
Trondhjem Technical School of Norway — Chemistry
Montillon, George Hamilton — *Cedar Rapids, Iowa*
M.S., Iowa State College — Chemistry
Moody, John Lawrence — *Weyauwega*
B.A., University of Wisconsin — Economics
Morehouse, Edward Ward — *Springfield, Mass.*
B.A., Amherst College — Economics
Mueller, Fred George s e — *Madison*
Ph.B., University of Wisconsin — Philosophy
Mueller, Marguerite Charlotte — *Chicago, Ill.*
M.A., Northwestern University — History
Munda, José M. wls — *Manila, P. I.*
B.A., University of the Philippines — Economics
Murata, Tetsusaburo — *Kyoto, Japan*
B.C., Waseda University — Economics
Murphy, Eleanor Janet m — *Madison*
M.A., University of Wisconsin — Medicine
Nagaoka, Otojiro — *Aichiken, Japan*
B.S., Tokio Institute of Technology — Chemical Engineering
Nazarene, Elton Grey — *Dallas Center, Iowa*
B.M.E., Iowa State College — Mining and Metallurgy
Nebel, Harold m — *Milwaukee*
B.A., University of Wisconsin — Physiology
Nelson, Nels Theodore — *Madison*
B.S., University of Wisconsin — Plant Pathology
Neprud, Marion Catherine — *Coon Valley*
B.A., University of Wisconsin — Political Science
Nesbit, Robert Alexander — *Tekamah, Nebr.*
B.A., University of Nebraska — Zoology
Nettleton, Lewis Lomax — *Nampa, Idaho*
B.S., University of Idaho — Physics
Newman, Irene Mary — *Madison*
B.A., Un versity of Wisconsin
Noland, Lowell Evan — *Marshall, Ind.*
B.A., De Pauw University — Zoology
Olsen, Emery Evans — *Los Angeles, Cal.*
M.A., University of Southern California — Economics
Ortega, Joaquin — *Madrid, Spain*
M.A., University of Wisconsin — Spanish
Otterson, Joseph Orlando — *Madison*
B.A., University of Wisconsin — Medicine
Parker, Frank Wilson — *Madisonville, Ky.*
B.S., Alabama Polytechnic Institute — Soils
Parsons, Llewellyn B. — *Binghamton, N. Y.*
B.S., Syracuse University — Chemistry
Peddicord, Ortho Otis — *Madison*
B.A., Valparaiso University — Agriculture

Pence, Helen Charlotte	*Chicago, Ill.*
B.A., University of Wisconsin	Latin
Pennell, Cornelia	*Bedford, Pa.*
B.A., Hood College	Music
Perkins, Lillian Alida	*Dodgeville*
B.A., University of Wisconsin	History
Peterson, Max Heinrich	*Madison*
M.A., Northwestern University	Physics
Pflueger, Luther Appel	*Crystal Lake, Ill.*
M.A., Indiana University	French
Phelps, Marion Eveline	*Spokane, Wash.*
M.A., Smith College	Physics
Phillips, Roy Cleveland	*Norwich, Conn.*
M.A., Harvard University	Spanish
Phythian, Mabel	*Cheshire, England*
B.A., University of Manchester	History
Pierce, Harrison Morton m	*Plymouth*
B.A., Milton College	Medicine
Pollack, Harry A.	*Milwaukee*
B.A., University of Wisconsin	Commerce
Porter, Philips Howe	*Madison*
B.A., University of Wisconsin	Political Science
Post, Julia Harriet	*Madison*
B.A., University of Wisconsin	Zoology
Potter, George Frederick	*Madison*
M.S., University of Wisconsin	Horticulture
Powers, Marion Louise	*Grand Rapids, Mich.*
B.A., University of Michigan	History
Price, John Theobald	*Paris, Ky.*
M.A., Center College	English
Price, Robert Louis	*Prescott*
B.S., Hamline University	Physics
Quick, Victor Hugo s e	*Peshtigo*
B.S., University of Wisconsin	Agronomy
Rankin, Frank Stephen m	*Madison*
B.S., Howard University	Physiological Chemistry
Rasmussen, Rupert Henry	*Nye*
B.S., Carleton College	Agriculture
Raymond, Mary Lois	*Newton Center, Mass.*
M.A., Radcliffe College	French
Rechard, Ottis Howard, Jr.,	*York, Pa.*
M.A., University of Pennsylvania	Mathematics
Reddy, Charles Steven	*Platteville*
M.S., University of Wisconsin	Plant Pathology
Reichert, Ramona	*West Bend*
B.A., University of Wisconsin	English
Reid, Dorothy Emma m	*Oconomowoc*
B.A., University of Wisconsin	Physiology
Reid, Duncan Henry	*Madison*
B.S., University of Wisconsin	Poultry Husbandry
Reid, Mary Elizabeth	*Oconomowoc*
B.S., University of Wisconsin	Botany
Richards, Clarice Audrey	*Madison*
M.A., Miami University	Botany

Rickett, Harold William — *New York, N. Y.*
B.A., University of Wisconsin — Botany
Riegel, Robert Edgar — *Neenah*
B.A., Carroll College — History
Ritchie, Catherine Jean s e — *Jefferson*
B.A., University of Wisconsin — Education
Ritter, George J. — *Madison*
Ph.M., University of Wisconsin — Chemistry
Roberts, Ray Harland — *Madison*
B.S., Oregon Agricultural College — Botany
Rodriguez, Eulogio Balan wls — *Manila, P. I.*
B.A., University of Wisconsin — Political Science
Rogers, Lucy E — *Kimball*
B.A., University of Wisconsin — Journalism
Rolland, Marius — *Thief River Falls, Minn.*
Ph.B., University of Wisconsin — Economics
Ronzone, Ethel m — *Madison*
M.A., Columbia University — Physiology
Ross, Leslie Truesdale — *Denver, Colo.*
M.A., University of Wisconsin — French
Salvan, Alice Marie Jeanne — *Saint Jean d'Augily, France*
B.S., St. Jean College — French
Salvan, Jacques — *Bayonne, France*
B. et Lettres, Universityof Poitiers — French
Sameth, Elsie m — *Reno, Nev.*
B.A., Cornell University — Anatomy
San Augustin, Gregorio — *Cavite, Manila, P. I.*
D.V.M., University of the Philippines — Animal Husbandry
Saunders, Allan Frederic l — *Amherst, Mass.*
B.A., Amherst College — Political Science
Scallon, Brighidin Trumble — *Hancock, Mich.*
M.A., University of Wisconsin — French
Schaefer, Roland T s e — *Milwaukee*
B.A., Baldwin-Wallace College — Education
Schierz, Ernest Rudolph — *Milwaukee*
M.S., University of Wisconsin — Chemistry
Schlatter, Fred Edmund — *Madison*
Ph.B., University of Wisconsin — Physiology
*Schlichten, Carl von — *Cincinnati, Ohio*
B.A., Cincinnati University — Geology
Schmidt, John Henry — *Madison*
M.S., University of Wisconsin — Chemistry
Schrenck, Walter Theodore — *Golconda, Ill.*
M.S., University of Wisconsin — Chemistry
Schubert, Arthur — *Madison*
B.A., Bates College — English
Schubring, Selma Langenhan — *Madison*
M.A., University of Wisconsin — Geography
Scott, Almere Louise — *Madison*
B.A., University of Wisconsin — Economics
Sell, Mariana Theresa — *Madison*
B.S., University of Wisconsin — Agricultural Chemistry

*Died January 27, 1920.

Senn, Petters Holmes — *Silverstreet, S. C.*
B.S., Clemson College — Genetics
Seymour, Edith Katharine — *Waverly, Mass.*
B.A., Miami University — Plant Pathology
Sharp, Malcolm Pitman — *Madison*
B.A., Amherst College — Economics
Shaw, George Robert — *Madison*
M.A., Washington and Lee University — Chemistry
Shear, Sherwood William — *Rosslyn, Va.*
B.S., University of Wisconsin — Agricultural Economics
Sheehan, James Murray — *Hamilton, Ohio*
M.A., Harvard University — English
Sherk, Daniel Christopher Leander — *Madison*
M.A., University of Wisconsin — Chemistry
Sherman, Edna Dixon — *Grand Forks, N. Dak.*
M.S., North Dakota Agricultural College — Home Economics
Sherman, Margaret Sophia — *Appleton*
B.A., Lawrence College — Public Speaking
Sherwood, Everett Clifton — *Lomax, Ill.*
B.S., Oklahoma Agricultural and Mechanical College — Plant Pathology
Shine, Mary Lambert — *Cincinnati, Ohio*
M.A., University of Cincinnati — History
Showalter, Amos M. — *Conway, Kan.*
B.A., Goshen College — Botany
Sinaiko, Sohnia — *Madison*
B.A., University of Wisconsin — Economics
Slagg, Charles Merwyn — *Madison*
M.S., University of Wisconsin — Plant Pathology
Slichter, Louis Byrne — *Madison*
B.A., University of Wisconsin — Physics
Sloan, Janet Elizabeth — *Brookings, S. Dak.*
B.S., South Dakota Agricultural College — English
Smit, Benjamin Johannes — *Reitz, S. Africa*
B.A., Cape of Good Hope College — Dairy Husbandry
Smith, Gilbert Brown Lorenzo — *Madison*
M.A., University of Wisconsin — Chemistry
Snyder, Andrew Joseph — *Waukesha*
M.S., University of Wisconsin — Chemistry
Sommer, Hugo Henry — *Sheboygan*
M.S., University of Wisconsin — Agricultural Chemistry
Sparks, Loron Darius s e — *Madison*
Ph.B., University of Wisconsin — Education
Sprague, Frank Arthur — *Madison*
M.A., University of Wisconsin — Spanish
Stearn, Noel Hudson — *St. Louis, Mo.*
M.A., Stanford University — Geology
Steil, William Nicholas — *Madison*
Ph.D., University of Wisconsin
Stewart, Harold Wilson — *Madison*
B.S., University of Illinois — Soils
Stone, Hosmer Ward — *Madison*
M.A., University of Wisconsin — Chemistry

Strang, Louise Luqueer — *Madison*
B.A., University of Colorado — Philosophy
Strickler, Alvin — *Madison*
M.S., University of Michigan — Chemistry
Stroman, Govan N. — *Walde, Tex.*
B.S., Texas Agricultural and Mechanical College — Agronomy
Strowd, Wallace Header — *Madison*
M.S., University of Wisconsin — Agricultural Chemistry
Tasaka, Shigesada — *Tokyo, Japan*
B.A., Waseda University — Economics
Takasu, Akira — *Osaka, Japan*
B.S., Tokoku Imperial University — Economics
Taylor, Edward Gordon — *Newtonville, Mass.*
B.S., Massachusetts Institute of Technology — Physics
Taylor, Joseph Clark — *Logansport, Ind.*
B.A., University of Wisconsin — Political Science
Teare, Daniel James — *Augusta*
B.A., University of Wisconsin — Commerce
Theodoro, Nicanor Gregorio — *Santa Cruz, Lagaima, P. I.*
B.S., University of Wisconsin — Plant Pathology
Tetreau, Eleazer — *Madison*
B.A., Hamline University — Agricultural Economics
Thayer, Vivian Tron — *Madison*
M.A., University of Wisconsin — Philosophy
Thorngate, George m — *Exeland*
B.A., Milton College — Medicine
Tiffany, Erwin Milton — *Lyndon, Kan.*
B.S., Kansas State Agricultural College — Agricultural Education
Tillotson, Ruth Amelia — *Madison*
B.A., University of Wisconsin — Plant Pathology
Tisdale, William Burleigh — *Madison*
M.S., University of Wisconsin — Plant Pathology
Titchener, Margaret Seymour — *Ithaca, N. Y.*
B.A., Wells College — Latin
Tompkins, John A. B. — *Wauwatosa*
B.C.E., University of Michigan — Horticulture
Tosterud, Martin — *Madison*
B.S., University of Wisconsin — Chemistry
Town, George Galloway — *Madison*
B.S., University of Wisconsin — Chemistry
Townley, Hubert Claude — *Madison*
B.A., Carleton College — Education
Trautmann, William John — *Madison*
Ph.M., University of Wisconsin — Chemistry
Treille, Henriette Marie Marguerite — *Paris, France*
B.A., Ripon College — French
Tufty, Harold Guilford — *Duluth, Minn.*
B.S., University of Wisconsin — Electrical Engineering
Turnbull, Julia Isabella — *Madison*
B.S., Vanderbilt University — French
Turner, Jennie Willing McMullin — *Madison*
B.A., University of Wisconsin — Economics
Valen, Ingeborg — *Kviteseid, Telemarken, Norway*
Graduate, Kristiania University — Home Economics

Valen, Neri	*Bö Telemark, Norway*	
B.S.A., College of Agriculture, Norway	Agricultural Economics	
Van Natta, Leslie Walter	*Platteville*	
B.A., University of Wisconsin	Economics	
Walker, Isabel Fitch	*Newton Center, Mass.*	
B.S., Columbia University	Home Economics	
Warttman, Paul	*Cedar Falls, Iowa*	
B.A., Iowa State Teachers College	Chemistry	
Weaver, Andrew Thomas	*Madison*	
M.A., University of Wisconsin	Psychology	
Weber, George F	*Madison*	
B.S., South Dakota University	Plant Pathology	
Wehrwein, George Simon	*State College, Pa.*	
B.S., University of Wisconsin	Agricultural Economics	
Weiss, David	*Madison*	
B.A., University of Wisconsin	Journalism	
Welch, Elizabeth Brownlee	*Cedar Rapids, Iowa*	
B.S., Northwestern University	Home Economics	
Welles, Colin Gilchrist	*Scotia, N. Y.*	
B.S., Cornell University	Plant Pathology	
White, David George	*Madison*	
M.F., University of Nebraska	Economics	
White, Helen Constance	*Roslindale, Mass.*	
M.A., Radcliffe College	English	
Whyte, Bertha Kitchell	*Madison*	
M.A., Kansas University	Chemistry	
Williams, Frank Ernest	*Madison*	
M.A., University of Wisconsin	Geology	
Williamson, Robert Vernon	*Wells, Ore.*	
M.S., University of Wisconsin	Chemistry	
Willson, Elizabeth	*Madison*	
Ph.D., University of Chicago	Italian	
Wilson, Frank C	*Manhattan, Kan.*	
B.S., Kansas State Agricultural College	Soil Bacteriology	
Wilson, James Herbert	*Bethel, Vt.*	
B.A., Oxford University	French	
Wilson, Melburn Lincoln	*Bozeman, Mont.*	
B.S.A., Iowa State College	Agricultural Economics	
Wilson, William Balfour	*Belleville*	
Ph.B., University of Wisconsin	Economics	
Wineland, Grace Odel	*Bryan, Ohio*	
M.S., Purdue University	Plant Pathology	
Winther, Sophus Kieth	*Eugene, Ore.*	
M.A., University of Oregon	English	
Wise, Clarence Reuben	*Madison*	
B.A., Cornell College (Iowa)	Chemistry	
Wood, Elizabeth	*Palo Alto, Cal.*	
B.A., Stanford University	Economics	
Wood, George Gerry	*Appleton*	
B.A., Lawrence College	Commerce	
Woodworth, Clyde Melvin	*Madison*	
M.S., University of Wisconsin	Genetics	
Yoke, John Jonathan	*Acton, Ind.*	
B.S., University of Illinois	Genetics	

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UNDERGRADUATES

COLLEGE OF LETTERS AND SCIENCE

Seniors

Aardal, Albert Anderson	*Moorhead, Minn.*
Aid, Mary Laura	*Council Bluffs, Iowa*
Albertz, Max Henry	*Watertown*
Allen, Marjorie Strong	*Oshkosh*
Altschwager, Edwin Henry m	*Sheboygan*
Alway, Martha Marie s e	*Aberdeen, S. Dak.*
Archibald, Helen Marion	*Ashland*
Aronson, Harry J.	*Milwaukee*
Bach, Clarence Edwin m	*Milwaukee*
Bacon, Lee Fairchild	*Madison*
Barney, Grace Emma	*Superior*
Barrett, Cecilia Winifred s e	*Edgerton*
Bartholf, Marjorie	*Glenco, Ill.*
Bassett, Dorothy Jane	*Rock Island, Ill.*
Baur, Gladys Mercedis s e	*Milwaukee*
Baur, Alfred John	*Cedarburg*
Beach, Joseph Barnes	*Whitehall*
Beal, Beatrice Elizabeth	*Albany, N. Y.*
Beard, Doris Mary	*Springfield, Ohio*
Bemis, George Gordon m	*Antigo*
Benson, Robert Henry Reese	*Milwaukee*
Bents, Caryl Zilda	*Madison*
Berger, Doris	*Milwaukee*
Berry, Esther Mary s e	*Milwaukee*
Bertling, Adeline s e	*Wilmette, Ill.*
Billau, Margaret Elizabeth	*Cedar Rapids, Ia.*
Bissell, Lillian	*Viola, Ill.*
Bitterman, Grace Vivian	*Madison*
Black, Mary Gertrude	*Chicago, Ill.*
Blaul, Sophie Poehler	*Burlington, Iowa*
Bonzelet, Mary Augusta	*Madison*
Borden, William Henry	*Madison*
Bosworth, Leslie Jennings	*Manly, Ia.*
Brackebusch, Agnes Adelaide s e	*Lake Mills*
Bradbury, Dorothy	*Topeka, Kan.*
Bradfield, Harriet Alma	*La Crosse*
Bradley, Melcena Vereeda s e	*Sedalia, Mo.*
Brashear, Hazel Anderson s e	*Moline, Ill.*
Braun, Alma Martha	*Merrill*
Breyley, Captola Rae	*Wadsworth, Ohio*
Brickels, Dorothy Jessie	*Waukesha*
Bridge, Dorothy Evelyn	*Madison*
Briggs, Adelin Sumner	*Madison*

Brogan, Katherine Ruth	*Ironwood, Mich.*
Brooks, Dudley Cookingham	*Madison*
Brorby, Melvin LeRoy	*Madison*
Brown, Margaret Relihan	*St. Louis, Mo.*
Brunkow, Esther Martha	*Monroe*
Bruns, Eleanor Copeland w l s	*Lake Mills*
Bur, Catherine Hedwig	*Green Bay*
Burch, Helen Upton s e	*Madison*
Burke, Thomas Nicholas	*Wayside*
Butler, Janet	*Madison*
Caldwell, Hugh McIntyre m	*Poynette*
Caldwell, Mary Lavina s e	*Poynette*
Calvert, Winifred Emily s e	*Benton*
Carley, Verna Adeline s e	*Appleton*
Carlock, Dorothy Mabel s e	*Mechanicsburg, Ill.*
Carlson, Helen Ovidia s e	*La Salle, Ill.*
Carpenter, Charles Hand	*Chicago, Ill.*
Chapman, Laurence Brinkman	*Great Bend, Kans.*
Chappel, Meda Augusta	*Oregon*
Christiancy, Carter Cornelius	*Warren, Ohio*
Churchill, Norma Eleanor	*Madison*
Cirlin, Marcus Bernarr m	*Madison*
Clapsaddle, Janet Ames	*Leland, Ill.*
Clapsaddle, Reita Margaret	*Leland, Ill.*
Clark, Helene s e	*Duluth, Minn.*
Clark, Thelma Lee	*Evansville*
Cochems, Kenneth m	*St. Anthony, Idaho*
Coerper, Dorothy Magdalene	*Hartford*
Cohn, Fletcher Gans	*Memphis, Tenn.*
Colby, Helen Maud s e	*Madison*
Collins, Florence Emily s e	*Racine*
Commons, John Alvin	*Madison*
Conley, Irene Grace	*Revillo, S. Dak.*
Connell, John William m	*Fond du Lac*
Conover, Daphne Grace	*Madison*
Converse, Mary	*Madison*
Cook, Katherine John	*Madison*
Coon, George Wayland m	*Milton Jct.*
Coon, Harold Macomber m	*Stevens Point*
Cottrell, Lois Marie s e	*Madison*
Cox, Linton Alden, Jr.	*Indianapolis, Ind.*
Craighill, Margaret Dorothea m	*Madison*
Cranefield, Paul Frederic	*Madison*
Cummings, Hannah Elson	*Marquette, Mich.*
Cumnock, Beatrice J. s e	*Black River Falls*
Currie, Agnes E.	*Minneapolis, Minn.*
Cutler, Viola Alyse	*Madison*
Dahle, Artman Hovey m	*Madison*
Dana, Marguerite Conrad	*West Allis*
Dangel, Dorothea Louisa s e	*Reedsburg*
Davis, Lois Adelyn	*Frankfort, Ind.*
Day, Florence Roberts	*East Cleveland, Ohio*
Delaney, William Francis	*Milwaukee*

Deutsch, Herman Julius	*Milwaukee*
Dodd, Helen Eliza	*Milwaukee*
Donald, Ernest m	*Madison*
Donkle, Venice Marion	*Madison*
Duke, Helen Masner	*Indianapolis, Ind.*
Durch, Rose Magdalene s e	*Chippewa Falls*
Durrie, Janet	*Madison*
Edelman, Mary	*Sheridan, Wyo.*
Edmunds, Hobart John	*Wausau*
Elles, Aline Elizabeth	*Evansville, Ind.*
Ende, Arthur	*Sheboygan*
Endres, Otto John	*La Crosse*
Evans, Dorothy Charlotte	*Moline, Ill.*
Evans, Edward Thompson m	*La Crosse*
Falstad, Clarence Henry m	*Eau Claire*
Fauerbach, Clara Vierling	*Madison*
Ferguson, Mary Ella	*Madison*
Ferrell, Clyde Miser	*Carrollton, Ohio*
Finsky, Morris m	*Lake Geneva*
Fischer, Warren Charles	*Two Rivers*
Fishburn, Katharine	*Madison*
Fisher, Marjorie Katherine	*Baraboo*
FitzGerald, Charlotte	*Richland Center*
Foster, Carlton Harwood	*Oshkosh*
Francis, Hugh Huntington	*Madison*
Frederick, Roland Hubbard m	*Milwaukee*
Fuchs, Harry Sigmund	*Janesville*
Gaik, Eleanor Adelheid	*South Bend, Ind.*
Gebhardt, Anna-Laura s e	*Madison*
Gerken, Florence Eva	*Madison*
Gibbon, Elsie Florence	*Milwaukee*
Gill, Charles Albert	*Sun Prairie*
Gilman, James Ward	*Madison*
Gilman, Robert Louis m	*Oshkosh*
Glassner, Rose Ruth s e	*Milwaukee*
Gluck, Elsie	*New York, N. Y.*
Godfrey, Edwin Samuel	*Waupaca*
Golder, Helen Dorothy	*Oak Park, Ill.*
Good, Frances Mary	*Ashland*
Goodwin, Harriet	*Hartland*
Gorder, Arne Christian m	*La Crosse*
Grant, James Evert	*Madison*
Graper, Herbert Frederic	*Ft. Atkinson*
Gregory, Maklen Wallis	*Delavan*
Gregory, Mary Elizabeth	*Delavan*
Grover, Lethe Genevieve	*Grantsburg*
Gudsos, Alta Jeannette s e	*Cashton*
Guequierre, Jacques Pierre m	*Madison*
Haberland, Erwin John m	*Verona*
Hadfield, Anna Helen s e	*Madison*
Haessler, Dorothy	*Milwaukee*
Hahn, Agatha Helen s e	*Watertown*
Haldeman, Lennox Glen	*Madison*

Hall, Dorcas Josephine	*Milwaukee*
Hall, Irene Corinne	*Ottumwa, Iowa*
Hall, Lawrence Waterbury l	*Madison*
Halline, Edward Paul	*De Pere*
Hamilton, Phyllis Brayton	*Madison*
Hanna, Florence Bernice	*Ottawa, Ill.*
Hansen, Sigrid Alfreda s e	*Ashland*
Harley, Herman Kenneth	*Madison*
Harloff, Gladys Louise s e	*Madison*
Harrison, Dorothy Beth	*Madison*
Harrison, Elizabeth	*Madison*
Harrison, Jeannette m	*Morrison, Ill.*
Hartmann, Elise Asenith	*Philadelphia, Pa.*
Hartmeyer, Helen Anne s e	*Madison*
Hatch, Allen Eugene	*Spring Green*
Hathaway, Grace Esther	*Madison*
Hauk, Helen Celia	*Madison*
Hawthorne, Gladys Ruth s e	*Monroe*
Hayes, Louis James	*Janesville*
Heckman, Roy M	*Merrill*
Hedderich, Mabel Lucile s e	*La Crosse*
Hemsing, James Franklin	*Milwaukee*
Hendricks, Lela Mary s e	*Tomah*
Hendrickson, Ella Franzen	*St. Paul, Minn.*
Hendrickson, Clarence Waldemar	*Madison*
Hersey, Ruth Boyce s e	*Brooklyn*
Herzfeld, Richard Philip	*Milwaukee*
Hickey, Mary Catherine	*Reedsburg*
Hicks, Marion Adah	*Madison*
Higbie, Nathan Bradley	*Chicago, Ill.*
Hill, Isabelle Laura	*Milwaukee*
Hillstrom, Ellen	*Madison*
Hinn, Helen Bertha s e	*Fennimore*
Hinners, Virginia Miller w l s	*Milwaukee*
Hintgen, Josephine	*La Crosse*
Hittner, Vernon James m	*Seymour*
Hoag, Hazel Lucy s e	*Monticello, Iowa*
Hoagland, Gertrude Betsy	*Peoria, Ill.*
Hoard, Marjorie Jean	*Sharon*
Hobbs, Merville Kummers l	*Platteville*
Hoffman, Arthur Louis	*Madison*
Hoffman, Adele Myrtle Louise	*Watertown*
Holcombe, Ray Edward s e	*Madison*
Holscher, Maude Marie s e	*Macfarland*
Holzinger, Lillian Esther	*Lancaster*
Hoover, Clara Viola	*Chicago, Ill.*
Horwitz, Lazarus Herman m	*Sheboygan*
Householder, George Seegers	*Chicago, Ill.*
Howard, Doris Allegra s e	*Superior*
Howard, Margaret m	*Portland, Ore.*
Huber, Herman Harry m	*Milwaukee*
Huber, Norma Marjorie s e	*Minocqua*
Hughes, Margaret Mary s e	*Madison*

Humphrey, Anne	*Milwaukee*
Huston, John m	*Richland Center*
Ingalls, Louise Pebbles	*Oak Park, Ill.*
Irvine, Robert Kenneth m	*Manawa*
Ivey, Everett D. m	*Millston*
Jackson, Mabel Bond	*River Forest, Ill.*
James, Marion Elizabeth	*Madison*
Jamieson, Helen Mary	*Poynette*
Jobse, Amy Clara	*Milwaukee*
Johnson, Marion March	*Normal, Ill.*
Johnson, Mary Anastasia	*Lemont, Ill.*
Johnson, Ruth Ann	*Rye, Fla.*
Johnson, Ruth Ellsworth	*Madison*
Johnston, Mildred Lyne	*Fort Atkinson*
Jones, Edna s e	*Spring Green*
Jones, Grace Eloise	*Brandon*
Jones, Mabel Anna	*Melvina*
Jones, Vesta Norine s e	*Madison*
Jorndt, Ruth	*Madison*
Jungck, Frederick William s e	*Menomonie*
Juster, Eugene Meyer	*Madison*
Kautsky, Ruth	*Colby*
Kearns, Edward Peter l	*Madison*
Keeley, Laurence Carl	*Mayville*
Kevin, Paul Robert m	*La Crosse*
Kidder, Earle Elton m	*Madison*
Kimball, Charles Leonard	*Oak Park, Ill.*
Kischel, Goldes Vilas	*Wausau*
Kitchell, Mary Virginia m	*Topeka, Kan.*
Klass, Frances Elfrieda	*Oconto*
Kluth, Amanda Augusta	*Clintonville*
Koepp, Otto August	*Madison*
Kornreich, Eugene Frederick m	*Milwaukee*
Krauth, Marguerite Harriet	*Phillips*
Kremers, Laura Ruth	*Madison*
Krohn, Irwin Kjelland m	*Black River Falls*
Krueger, Hattie Otellia	*Stevens Point*
Krumm, John Frederick m	*Chicago, Ill.*
Kuehn, Helma Elizabeth	*West Salem*
Lamb, Elizabeth Risk s e	*Janesville*
Lange, Ivan Louis	*Cedarburg*
Lee, Margaret Irene s e	*Madison*
Lemm-Marugg, Carl	*Madison*
Leverich, Harriet Elizabeth s e	*Sparta*
Levy, Dorothy s e	*Milwaukee*
Lewis, Margaret Jane s e	*Madison*
Liebermann, Lucile Sara w l s	*Watertown*
Lindsay, Janet Edmond	*Milwaukee*
Liu, Chung-Hung	*Foochow, China*
Logeman, Margaret	*Milwaukee*
Loomer, Zella Grace s e	*Madison*
Lorfeld, Gerhard William m	*Sheboygan*
Lovell, Lois Virginia	*Fargo, N. Dak.*

Luban, Simon m	*Milwaukee*
Luckey, Ruth Campbell s e	*Madison*
Ludlow, Evelyn Charlotte	*Monroe*
Lugoff, Leonard Seymour	*Duluth, Minn.*
Lund, Bertha Theressa	*Mt. Horeb*
Lund, Laura Thelma	*Bloomer*
Lynch, Agnes	*Superior*
Lyons, Edith Roberts	*La Crosse*
McCabe, Cornelia Devlin	*Superior*
McCabe, Lester Follett	*Duluth, Minn.*
McCain, Katherine Louise	*Crawfordsville, Ind.*
McCandless, Donald Sisson	*Davenport, Iowa*
McCandless, Stanley Russell	*Davenport, Iowa*
McCollister, Elizabeth	*Madison*
McCrory, John Raymond s e	*Fond du Lac*
McGarty, Michael Edmund m	*Mauston*
McGruer, Earl	*Madison*
McMeans, Margaret Collins s e	*Davenport, Iowa*
McNeil, John Edward	*Aniwa*
McPherrin, John Wertz	*Des Moines, Iowa*
Machlis, Samuel Arthur m	*Madison*
Mackay, Ralph Sutherland	*Milwaukee*
Mahar, Margaret Buckley	*Hartford*
Maher, Catherine Mary s e	*Milwaukee*
Maher, Evangeline Genevieve	*Devils Lake, N. Dak.*
Mahlkuch, Samuel August	*Monroe*
Margraff, Gertrude Bertha s e	*Colby*
Markham, Margaret Cornelia	*Manitowoc*
Marshall, Richard Hughes	*Madison*
Marshall, Samuel Hagan	*Madison*
Martin, Dorothy Isabel	*Michigan City, Ind.*
Martin, Jennie McKee	*Mt. Horeb*
Martin, Ruth Agnes Mary	*Madison*
Melby, Eva	*Madison*
Mell, Mildred Rutherford	*Athens, Ga.*
Merrill, Louis Taylor	*Beloit*
Metcalf, Lael Frances	*Spring Green*
Metcalf, Lethe Viola	*Spring Green*
Millard, Robert Dinsmore m	*Antigo*
Miller, Fanny	*Milwaukee*
Miller, Maude	*Cumberland*
Miller, Ruth Beatrice	*Alma Center*
Miller, Winifred Vanderpool	*Madison*
Mitchell, Marie Eva s e	*Milwaukee*
Moe, Orpah Ruth s e	*Chetek*
Mondschein, Irmgard Clarissa	*Milwaukee*
Moody, Sidney Fred	*Weyauwega*
Moore, Anne Evelyn	*Watertown*
Moore, Thomas Francis m	*Watertown*
Moran, Margaret Marie	*Hibbing, Minn.*
Morman, Wade Hampton	*Wausau*
Moroney, John Rodgers	*Dallas, Tex.*
Moroney, William Joseph Jr.	*Dallas, Tex.*

Morris, Francis Joseph m	*Manitowoc*
Mueller, Gretchen	*Lebanon, Ky.*
Mueller, Walter Edward	*Davenport, Iowa*
Munro, Caroline Walker	*Princeton, N. J.*
Murphy, Elizabeth Hazel s e	*Delavan*
Naffz, Alice Camille s e	*Madison*
Nelson, Eunice	*Edgerton*
Nelson, Kathryn	*Manitowoc*
Neprud, Lincoln	*Westby*
Netherwood, Anna Mirbelle	*Madison*
Nichols, Lauretta Hessin s e	*Marshalltown, Iowa*
Neotzel, Gertrude Murilla s e	*Waukesha*
Nutter, Lucile Adeline	*Sac City, Iowa*
Nuzum, Marguerite Frances	*Madison*
Oberheim, Grace Myrtle w l s	*Mt. Carroll, Ill.*
Odegard, Helena Martinsen	*Madison*
Older, Leone Florence	*Portage*
Olsen, Lucille Eleanor s e	*Madison*
O'Malley, Stella Ethelberta s e	*Madison*
Oppelt, Gertrude Josephine s e	*Fort Wayne, Ind.*
Osborn, Eighmy-bell	*Madison*
O'Shea, Michael Vincent	*Madison*
Ostlund, Elvira Otilia m	*Butte, Mont.*
Ostrander, George Emmet	*Columbus*
Otteson, Elli s e	*Eau Claire*
Overton, Orrin Van m	*Beloit*
Owen, Leona Frances	*Chicago, Ill.*
Parmelee, Abbie Neal	*Chicago, Ill.*
Parsley, Mannie Nutt	*Kansas City, Mo.*
Paulson, Clara Olive	*Hollandale*
Paulson, Thelma Luella w l s	*Evansville*
Pearson, Josephine Rae	*Upper Montclair, N. J.*
Pett, Ernest Herman	*Johnson Creek*
Pettegrew, Melba Irene	*Fox Lake*
Philipp, Cyrus Lucius	*Milwaukee*
Philpott, Merrill Raymond m	*Madison*
Plumb, Eugenia Langson	*Milwaukee*
Porter, Autentia May	*Oak Park, Ill.*
Prentiss, Marion Sara	*Milwaukee*
Price, Frances Louise	*Milwaukee*
Proctor, Sarah Louise	*Union City, Ind.*
Puckett, Mildred Vail	*Rock Rapids, Iowa*
Quisling, Sverre m	*Madison*
Ragatz, Lowell Joseph s e	*Madison*
Ramsey, Helen s e	*Rock Rapids, Iowa*
Ramsey, John Robbins	*Racine*
Randolph, John Binford l	*Lafayette, Ind.*
Rankin, Iva Lucille s e	*Pekin, Ill.*
Rasmussen, Vilas l	*Ixonia*
Raube, Herbert Albert m	*Waupun*
Reed, Harold West	*Elkhorn*
Reeder, Margaret Helen	*Houghton, Mich.*
Reinking, Margaret Beatrice	*Madison*

Rettger, Robert Ernest	*Terre Haute, Ind.*
Riggs, Gladys Evelyn	*Cando, N. Dak.*
Roberts, Rob Roy m	*Ft. Atkinson*
Robinson, Olive Ellen	*Evansville*
Rollefson, Gerhard Krohn	*Superior*
Rudy, Frances Eleanor	*Madison*
Rudy, Paul Passmore l	*Madison*
Ruggles, Ruth Elizabeth	*Hurley*
Rushenberg, Marene Jennie	*Roberts*
Ryan, Madge Irene s e	*Madison*
Sammons, Louise	*Sioux City, Iowa*
Schilling, Gladys Ruth	*Wausau*
Schlicher, J. Rudolph	*Madison*
Schlomovitz, Harry Herman m	*Milwaukee*
Schlosser, Gladys Marguerite	*Arlington*
Schmidt, Elsie Florence	*Wauwatosa*
Scholtz, Theodore Livingtson	*Madison*
Schubert, Clarence Karl m	*Madison*
Schuette, Louise Marie	*Manitowoc*
Schulte, Victor Jacob	*Milwaukee*
Schulz, Johanna Henrietta	*Milwaukee*
Schumacher, Ethel Maude s e	*Elroy*
Settle, Ruth Johan	*Martinsdale, Mont.*
Sevringhaus, Lois Katherine	*New Albany, Ind.*
Seybold, Erwin George m	*Forest Jct.*
Seymour, Whitney North	*Madison*
Shea, Edith Verena	*Ashland*
Shepherd, Thomas LeRoy m	*Platteville*
Shortess, Pauline s e	*Charleston, Ill.*
Shurtleff, Dorothy Hancock	*Manchester, N. H.*
Siddons, Frederick Philip Heyward	*Washington, D. C.*
Siewert, Anita Mary s e	*Arlington*
Simonds, Paul William	*Milwaukee*
Simpson, John Douglas	*Minneapolis, Minn.*
Simpson, Marjorie Du Val s e	*Chicago, Ill.*
Sinclair, Mildred Iantha	*Ladysmith*
Skaar, Ragnhild Synnóve	*La Crosse*
Smith, Emmet Patrick	*Madison*
Smith, Mabel Gertrude	*Rockford, Ill.*
Smith, Mildred Trabue	*Madison*
Smith, Ruth Donaldson	*Webster City, Iowa*
Smuckler, Robert Henry m	*Milwaukee*
Snodgrass, Etha Cleaver	*Eugene, Ore.*
Spohn, George Daniel l	*Janesville*
Stacy, Esther Anna	*Osage, Iowa*
Stanley, Bonny Lucile	*St. Francis, Ark.*
Steele, Richard Wilson	*Oak Park, Ill.*
Steensland, Marie Louise	*Madison*
Stern, William m	*Kenosha*
Stevenson, Violet Esther	*Arlington*
Stewart, Duncan James	*Rockford, Ill.*
Stirwalt, Bessie Joan	*Terre Haute, Ind.*
Stofflet, Anna Beryl	*Bishop, Cal.*

Storlie, Carolyn Nelson	*Minneapolis, Minn.*
Stone, Estelle Ruth s e	*Milwaukee*
Strassburger, Albert Emmanuel l	*Oshkosh*
Sullivan, Winifred Irene	*Fond du Lac*
Taylor, Alfred Hendricks	*Ottawa, Ill.*
Taylor, Elsie Elizabeth s e	*Madison*
Taylor, Harold Beecher	*Chicago, Ill.*
Taylor, Katheryne Cornelia s e	*La Crosse*
Tenny, Kathryn Estelle s e	*River Forest, Ill.*
Terry, Halstead Coleman	*Madison*
Teschner, Paul August K. m	*Milwaukee*
Teshner, Hermance Sarah	*Eugene, Ore.*
Thompson, Evan Gwynne	*Lake Mills*
Thompson, Robert Oliver	*Madison*
Tierney, Edward Frederick m	*Portage*
Tormey, Marion Elizabeth s e	*Madison*
Turney, Frances	*Fairfield, Iowa*
Ulrich, Helen R.	*Neenah*
Umbreit, Freda Emmet	*Milwaukee*
Urban, Ruth-Marie	*Wauwatosa*
Urberg, Sofus Emanuel m	*Blair*
Van Vleck, John Hasbrouck	*Madison*
Vinje, Ethel s e	*Madison*
Wade, Hester	*St. Louis, Mo.*
Wagner, Margaret Louise	*Freeport, Ill.*
Wagner, Newton Van Derveer	*Madison*
Walz, Chester Davison	*Madison*
Wanner, Esther Juliette	*Chicago, Ill.*
Ward, Alonzo La Rue	*Aberdeen, S. Dak.*
Warner, Frances Marian	*Kansas City, Mo.*
Waterbury, Eva Kate	*Prairie du Sac*
Waterman, Isabelle Amanda	*Menomonie*
Watson, Goodwin Barbour	*Whitewater*
Weber, Gertrude s e	*Keokuk, Iowa*
Weeks, Herbert John	*Chilton*
Weimer, Elizabeth Ann	*Sheboygan*
Weiskirch, Anita Elizabeth	*Topeka, Kan.*
Weiss, Helen Catherine	*Madison*
Weisse, Harvey Jennings l	*Sheboygan Falls*
Weld, Beatrice Louise	*South Bend, Ind.*
Wellauer, Henry Conrad	*Wauwatosa*
Welsh, Mary Irene s e	*La Crosse*
Wensley, Margaret Gray	*East Cleveland, Ohio*
Werba, Daniel Richard m	*Milwaukee*
White, Lola Anne s e	*Winneconne*
Whitlock, Robert Laird	*Gettysburg, S. Dak.*
Wilgus, Alva Curtis	*Platteville*
Winchell, Vira Frances	*Madison*
Wise, Evelyn	*Jackson, Tenn.*
Wittwer, Marie Gladys	*Madison*
Wolfe, Ruth Matilda	*Sun Prairie*
Wood, Delphine	*Fonda, Iowa*
Wright, Florence Margaret s e	*Wahpeton, N. Dak.*

Wurlitzer, Raimund Billings	*Cincinnati, Ohio*	
Zulfer, Anthony George	*Chicago, Ill.*	—469

Course in Commerce

Andersen, Elizabeth Marie	*Madison*
Austin, Carlton Leroy	*Grand Rapids, Mich.*
Baker, James Patrick	*La Crosse*
Baxter, Marcus L.	*Lancaster*
Behrendt, Otto Herman Emil	*Wausau*
Bergset, Lloyd	*Eau Claire*
Bickel, Frederick McIntyre	*Racine*
Boeing, John Kruggel	*Madison*
Bohnson, Roland Durfee	*Clinton, Iowa*
Brennan, Rowland Edward	*Madison*
Brewster, Grace Elizabeth	*East Troy*
Brown, Earl Don	*Madison*
Burgy, Jacob Herbert	*Monticello*
Carroll, Clark Joseph	*Watertown*
Carroll, Lawrence Kinzie	*Sauk City*
Chamberlain, George Henry	*Milwaukee*
Chandler, Arthur Luther	*Madison*
Clark, William Arthur	*Nisland, S. Dak.*
Claus, Pearl Elizabeth	*Madison*
Coe, Orpha Mazie	*Barron*
Crebs, John Montgomery Jr.	*Carmi, Ill.*
Crump, Gordon William	*Madison*
Culbertson, Charles Dewey	*Stanley*
Dahlman, Oscar Conrad E.	*Plymouth*
Dohr, Donald	*Madison*
Donovan, James Rowells	*Waupun*
Doyle, Elmer Michael	*Highland*
Drew, Francis Leo	*Madison*
Edwards, Leroy Eugene	*Madison*
Edwards, Raymond Delos	*Madison*
Erdmann, Willard Valentine	*Sheboygan*
Fee, Archibald Hubert	*Superior*
Feldman, Grant Allan	*Mason City, Iowa*
Fetter, Russell Manion	*Kendallville, Ind.*
Fitzgerald, Robert Drake	*Milwaukee*
Fladoes, Martin Alfred	*Menomonie*
Fowler, Mary Collison	*Fithian, Ill.*
Freese, Herbert George	*Sioux Falls, S. Dak.*
Freund, Walter Emerson	*Cedarburg*
Gildermaster, Henry Herman	*Princeton, Ill.*
Glaser, Joseph Nicholas	*Milwaukee*
Goetsch, Arthur Albert	*Reedsburg*
Groat, John Leland	*Janesville*
Hammond, Loring Theodore	*Wauwatosa*
Hanken, Harry	*Marinette*
Hanssen, John Louis	*Davenport, Iowa*
Harrington, Florence Mary	*Milwaukee*
Harrison, Don Edward	*Sarasota, Fla.*

Hensey, Irene Annette	*Ft. Atkinson*
Hewett, Floyd Fisher	*Arlington, S. Dak.*
Hewett, Roswell E.	*Madison*
Hill, Byron MacLeod	*Kenosha*
Hinton, George William	*Sparta*
Hodgins, Gerald Burgh	*Madison*
Holtz, Harold Lawrence	*Columbus*
Holzberg, Philip Paul	*Superior*
Hornaday, Howard Blair	*Madison*
Hoyer, Frank Charles	*Manitowoc*
Huntting, Laura Updegraff	*McGregor, Iowa*
Hurley, Edith Belle	*Fox Lake*
Joerndt, Clarence Venoah	*Kenosha*
Jones, George Good	*Warren, Ind.*
Kahn, Herbert Mandel	*Appleton*
Karow, Eugene William	*De Forest*
Katzenstein, Henry Bonns	*Milwaukee*
Kiekhofer, Erna Lula	*Milwaukee*
King, Marvin Stephen l	*Arena*
Kinzel, Lesley Kenneth	*Merrill*
Kircher, Paul Edgar	*Kiel*
Kletzien, Hobart Henry	*New Holstein*
Kletzien, Loyal Herman	*New Holstein*
Knappen, Laurence Stevens	*Brookings, S. Dak.*
Knorr, Lincoln Dewey	*Madison*
Knutson, Elmer Oley	*Boscobel*
Kraemer, Elmore Andrew	*Rockfield*
Kress, Fred Raymond	*Tomah*
Kuehl, Frank William l	*Fountain City*
Lampman, Harold Heath	*Clare, Mich.*
Levy, Edward David	*Augusta*
Ley, Hilda Margaret	*De Pere*
Lindsay, Robert Brown	*Milwaukee*
Lindsey, James Milton	*Boise, Idaho*
Linehan, Raymond Francis	*Genesee Depot*
McCoy, Frank Adelbert Jr.	*N. Tonawanda, N. Y.*
McCray, Sim Thaxter	*Oshkosh*
McIver, Frazier Daniel	*Superior*
McMurry, Morland John	*Evansville*
Maier, Walter Louis	*Antigo*
Mandel, Walter Frederick	*La Grange, Ill.*
Mann, Berthold Charles	*Mayville*
Mann, Frederick John	*Evansville, Ind.*
Mays, Francis Peltier	*New London*
Meier, Paul Adrian	*Plymouth*
Melaas, Karel Christian	*Stoughton*
Melcher, Burton Walter	*Madison*
Merrill, Willard Doris	*Madison*
Metz, Henry Lawrence	*Madison*
Metzker, William Martin	*Milwaukee*
Meyer, Lawrence Emmons	*Oshkosh*
Meyers, Ross Bacharach	*Darlington*
Miller, James Christolph	*Madison*

Moore, David Weston	*Onalaska*
Mueller, Alphons Robert	*La Crosse*
Mungavin, James Francis	*Superior*
Murphy, Daniel Francis	*Chicago, Ill.*
Nelson, Frederick Washington	*Racine*
Nissen, Laura Hagerup	*Madison*
Ogle, Samuel Eugene	*Waldo*
Oldenburg, Frederick William	*Linden*
Olson, William Otto	*Wautoma*
Owens, John Purdy	*Milwaukee*
Oyaas, Einar Bernhardt	*Eau Claire*
Pagel, Herman Emil	*Stevens Point*
Pantzer, Frederick Morris	*Sheboygan*
Pease, Harlow Heath	*Wauwatosa*
Perkins, Edward Lee	*Joliet, Ill.*
Peters, Oswald Henry	*West Bend*
Peterson, Carl Edwin I	*Menomonie*
Pieh, Roy John	*Madison*
Pinther, Harold Otto	*Fond du Lac*
Pogue, Kenneth Hunt	*Paw Paw, Ill.*
Porter, Lyell Potter	*Evansville*
Pratt, Harold James	*Edgerton*
Quimby, John Alvan	*Sheboygan*
Ramsey, Ronald West	*Rock Rapids, Iowa*
Ray, Charles Harold	*Milwaukee*
Rewey, Robert Livingston	*Rewey*
Sachse, Erwin George	*Sheboygan*
Salit, Zigmund	*Madison*
Schatzle, Henry	*Delavan*
Schiedenhelm, Albert Knauer	*Wilmette, Ill.*
Schenck, Edwin William	*Madison*
Schenck, Willard John	*Madison*
Schmidt, George Arthur	*Milwaukee*
Schneider, Walter Edward	*Telodo, Ohio*
Schomberg, Richard J., Jr.	*Milwaukee*
Schumann, Harold Louis	*Watertown*
Schwartz, Charles Floyd	*Sharon*
Seielstad, Albert Norman	*La Crosse*
Shellenberger, Jack Herbert	*Madison*
Shellman, Ernest John	*Madison*
Sherman, Howard Cole	*Madison*
Sinaiko, Jacob J.	*Madison*
Smiley, Russell Glen	*Janesville*
Smith, Sanford Fred	*Edgerton*
Spickard, Leland William	*Richland Center*
Stiles, Ralph De Merit	*Lake Mills*
Stuhler, Frederick Stewart	*Madison*
Taylor, Russell Fayette	*Whitewater*
Upgren, Arthur Reinhold	*River Falls*
Vanderjagt, Ellis Leonard	*Milwaukee*
Welsh, Daniel Scott	*Madison*
Werrbach, Archie John	*Milwaukee*
Westphal, Harry Le Roy	*Preston, Iowa*

White, Charles Herman	*Rewey*	
Wilder, Frank Edward	*Madison*	—156

Course for Normal Graduates

Albright, Bernice	*Normal, Ill.*	
Drewry, Lucile Marguerite	*Madison*	
Gibbon, Owen Benjamin s e	*Madison*	
Hanson, Lillian Christine s e	*Superior*	
Heiliger, Ella Catherine	*Madison*	
Kell, Herman Frederic s e	*Madison*	
Kruschke, Walter Frank	*Waldo*	
Livingston, William Francis s e	*Milton Jct.*	
McLay, Grace Christina	*Janesville*	
Matrovers, Chester Harold s e	*Oconto*	
Olson, Lila Belle	*Madison*	
Peterson, Ruth Agnes	*Wausau*	
Regan, Michael Patrick	*Milwaukee*	
Rottiger, Ruby Anna	*Platteville*	
Schuldt, Ella Cora	*Platteville*	
Smith, Henry Earl s e	*Dodgeville*	
Vernon, Mabel Dorothy s e	*Kenosha*	—17

Course in Chemistry

Andrews, Andrew Irving	*Oshkosh*
Arzberger, Cornelius Frederick	*Jefferson*
Beglinger, Harold Fred	*Oshkosh*
Bischoff, Fritz Emil	*Milwaukee*
Blonien, Bert Andrew	*Milwaukee*
Braun, Harold	*Milwaukee*
Chase, Lucile Eastwood	*Greeley, Colo.*
Coe, Arthur William	*Horicon*
Corine, George Andrew	*Superior*
Dickinson, Sheldon James	*Dundee, Ill.*
Finner, Lucy Louise	*Arcadia*
Flogans, William Albert	*Chicago, Ill.*
Fowler, William McKinley	*Kankakee, Ill.*
Grams, Marie Helen	*Kansas City, Mo.*
Hackbert, Clarence Reinold	*Arlington*
Hart, Mable Beth	*Hillsboro*
Helfaer, Bertram M.	*Milwaukee*
Helfaer, Evan Philip	*Milwaukee*
Hentzen, Erwin Albert	*Milwaukee*
Himmler, Lowell Whitman	*Washington, D. C.*
Holbrook, William Floyd	*Cameron*
Holter, Adolph	*Kristiania, Norway*
Hoppert, Carl Arthur	*Sheboygan*
Horton, Frederic Arthur	*Rockford, Ill.*
Kahlenberg, Herman Heald	*Madison*
Koch, John Ralph	*Janesville*
Koehler, Henry George	*Ripon*
Maleckar, William Richard	*Marinette*
Mead, Max Lionel	*Primghar, Iowa*

Nash, George Walter	*Milwaukee*	
Phillips, George Dewey	*Milwaukee*	
Prichett, Mary Josephine	*Mankato, Minn.*	
Ramsdell, Guy Arthur	*Marion*	
Schmidt, Ray Otto	*Davenport, Iowa*	
Short, Robert Wright	*Elkhart, Ind.*	
Steinle, John Vernon	*Madison*	
Taylor, Henry Gordon	*Madison*	
Thomas, Norton Andrew	*Milwaukee*	
Verhulst, John	*Sheboygan*	
Vollmar, Clarence Joseph	*La Crosse*	
Wolf, Henry Nicholas	*Chilton*	—41

Course in Journalism

Ashford, Claire Woodworth	*Huntsville, Tex.*	
Bergeson, Marion Faith	*Earlville, Ill.*	
Bump, Franklin Elisha, Jr.	*Wausau*	
Collins, Jeannette Maria	*Cumberland*	
Dopkins, Elmo Carlyle	*River Falls*	
Edison, Alice Grace	*Sun Prairie*	
Erikson, Leonard Frederick	*Chicago, Ill.*	
Guernsey, Dorothy	*Chicago, Ill.*	
Hadley, Edith Jane	*Stoughton*	
Hartung, Leatha Vesta	*Two Rivers*	
Herz, Robert Thal	*Logansport, Ind.*	
Johnson, Margaret Mabel	*Great Falls, Mont.*	
Kleven, Garnet Estell	*Mt. Horeb*	
Longaker, Adelina	*East Aurora, N. Y.*	
McDonald, Iva Mary	*Madison*	
Meyers, Bernard Edward	*Kenosha*	
Miller, Carl Grover	*Chippewa Falls*	
Moore, Marion Eleanor	*Madison*	
Olson, Kenneth Eugene	*Ashland*	
O'Meara, Walter Andrew	*Cloquet, Minn.*	
Regli, Adolph Casper	*Eau Claire*	
Riordan, Hugh Leo	*Port Washington*	
Roth, Marion Regula	*Minneapolis, Minn.*	
Schulz, Ella Marion	*Madison*	
Scott, Owen Le Grand	*Sioux Falls, S. Dak.*	
Selk, Lucile Charlotte	*Madison*	
Sinaiko, Josie	*Madison*	
Swan, Harold Johnson	*Mazomanie*	
Van Wagoner, Esther Ellen	*Pontiac, Mich.*	
Whipple, Marcia	*Waterloo*	
Wilson, Margaret Curtiss	*Madison*	
Wolfe, Hazel Zeta	*Mt. Horeb*	
Zilmer, Bertram George	*Monroe*	—33

General Course

Cox, John Van Brunt	*Horicon*	
Dickelmann, Lorin Elmer	*Milwaukee*	
Haley, Irene Wilson	*Tulsa, Okla.*	

Koch, Elmer John	*Brillion*	
Meyer, Baron de Hirsch	*Brillion*	
Petrie, Hazen Hill	*Madison*	
Snyder, Helen Marion	*Milwaukee*	
Solberg, Victor s e	*Eau Claire*	
White, Leon Oliver	*Madison*	—9

Juniors

Albrecht, Selma Carrie s e	*Madison*
Alexander, Anne Ruth	*Hayward*
Alexander, Ruth	*Madison*
Allen, Rosamond	*Boston, Mass.*
Allyn, Louise	*Madison*
Alvarez, Augustin L.	*Zamboanga, P. I.*
Ames, Betty Delano	*Roswell, N. Mex.*
Anderson, Marion Ruth	*Madison*
Anderson, Mary Eloise	*Chicago, Ill.*
Anderson, Neva Esther	*Superior*
Andrews, Celia s e	*South Wayne*
Apter, Charles Scheier	*Milwaukee*
Aschenbrenner, Steven	*Milwaukee*
Assovsky, Charles D.	*Milwaukee*
Austin, Allen Sunday	*Milwaukee*
Bach, Mark John m	*Milwaukee*
Bacon, Caryl Monona s e	*Madison*
Bacon, Isabel Lyman	*Salt Lake City, Utah*
Bakken, Henry Harrison	*Blue Mounds*
Baldwin, Marion Elisabeth s e	*Berwyn, Ill.*
Barney, Tyler Davis	*Sparta*
Barr, Wallace Andre	*Milwaukee*
Barrett, Elzaida Mildred	*Baraboo*
Baumann, Eleanore Ottalie	*Winona, Minn.*
Beach, Marguerite Marie	*Ft. Atkinson*
Becker, Mary Lucile s e	*Ackley, Iowa*
Belman, Harry Samuel	*Milwaukee*
Bendeke, Valdis Marion	*Grand Forks, N. Dak.*
Bennett, Donald Menzies	*Madison*
Berg, Benita D.	*Marshfield*
Berger, Elsa m	*Milwaukee*
Bernhardt, Edmond Lloyd m	*Wilton*
Beste, Curtis Francis	*Mosinee*
Bielenberg, Marie Louise s e	*Elgin, Ill.*
Bigler, John Adolph m	*Chippewa Falls*
Birtcherd, Edna Maurene	*Norfolk, Va.*
Bischoff, Clifford Edward	*Superior*
Blaul, Bertha Pauline	*Burlington, Iowa*
Blount, John Gray Jr.	*Milwaukee*
Blum, Bruce Marty	*Monroe*
Blum, George Louis Jr.	*Eau Claire*
Bohl, Warren Albert	*Brookings, S. Dak.*
Bollenbeck, Marcella Kathryn	*Madison*
Bolliger, Lydia Aurelia s e	*Madison*

Borgelt, Edward Hubert	*Milwaukee*
Borman, Milton Carter	*Oshkosh*
Boschert, Catherine s e	*La Crosse*
Bowles, John Herschel m	*Sheldon, Ill.*
Boyden, Alan Arthur	*Madison*
Bradley, Bertha Irene s e	*Twin Falls, Idaho*
Bramlette, Milton Munn	*Madison*
Breazeale, Virginia Norvil	*Sharkley, Miss.*
Breen, Edward Joseph	*Ft. Dodge, Iowa*
Breidablik, Anna Bergitte	*Madison*
Breitenbach, Margaret Frances	*Madison*
Brennan, Elsie May s e	*Lancaster*
Breyley, Mildred Allegra	*Wadsworth, Iowa*
Brinkerhoff, Charles James	*Neenah*
Brown, Enid Lois	*Colfax, Iowa*
Brown, Grant Houston	*De Kalb, Ill.*
Brown, Leslie Edwin	*Whiting, Iowa*
Brown, Thomas Kenneth m	*Waupun*
Brunschweiler, Edith Harwood s e	*Appleton*
Buck, L. Irene s e	*Chicago, Ill.*
Bucknam, Vernis Nettie s e	*Osage, Iowa*
Bugbee, Virginia Hempstead	*Waukesha*
Bump, Warner Smith m	*Wausau*
Bunge, George Christian	*La Crosse*
Burg, Freda Marie	*Platteville*
Burnham, Lois Frances	*Madison*
Busby, Fern Mae s e	*Arcadia*
Byers, Ruth	*Coldwater, Mich.*
Calvert, Charlotte Joslin m	*Madison*
Campbell, Arch Phelps s e	*East Ellsworth*
Campbell, Everett Lowell m	*Madison*
Campbell, Mary Alice s e	*Chicago, Ill.*
Cance, Gladys Fern	*Ettrick*
Capellen, Eda Cecilia	*La Crosse*
Carpenter, Cathryn Evelyn	*Racine*
Carpenter, Earl Eugene m	*Superior*
Carpenter, Esther Jean	*Canton, S. Dak.*
Carver, Horace Jones	*Milwaukee*
Castles, Martha Lucile	*St. Louis, Mo.*
Caylor, Truman E. m	*Bluffton, Ind.*
Chamberlain, Jean Bosler	*Harrisburg, Pa.*
Chamberlain, Joseph Nourse	*Des Moines, Iowa*
Chandler, Elizabeth Ash	*Silver Springs, Md.*
Chen, Kun Fau	*Hangchon, China*
Chiao, Wan Hsuan	*Tsing Yuan Shansi, China*
Christianson, Oscar	*Beloit*
Clark, Burton Jr. m	*Oshkosh*
Clark, Grace	*Ottumwa, Iowa*
Claxton, Mabel Louise	*French Lick, Ind.*
Clay, Maude Dorothea s e	*Bunceton, Mo.*
Clayton, Helen	*Webster Groves, Mo.*
Coburn, Frances Gilfillan	*West Salem*
Cohen, Esther Marie s e	*Chicago, Ill.*

Cole, Emerson	*Rockford, Ill.*
Commons, Rachel Sutherland	*Madison*
Conklin, Frances Eugenia	*Hutchinson, Kan.*
Conklin, Virginia Teresa	*Madison*
Conley, Henry Harold m	*Cazenovia*
Connell, Laura May m	*Fond du Lac*
Conway, Florence Mary	*Antigo*
Cook, Mabel Louise s e	*Chippewa Falls*
Cooper, Doris Edwina s e	*Madison*
Cornish, Pauline Dorothy	*Denver, Colo.*
Corr, William Philip m	*Juneau*
Cosgrove, Frank William	*Fond du Lac*
Cox, Deirdre Dorothy	*Chicago, Ill.*
Cox, Eleanor Harriet	*Madison*
Coxon, Robert Gregg s e	*Madison*
Crabbe, Henrietta-Marie s e	*Green Bay*
Craighill, Eleanor Rutherford s e	*Madison*
Croskey, Marguerite Isabelle	*Madison*
Crownhart, Jesse George	*Madison*
Culnan, John Herbert	*Marinette*
Culver, Lucian Glenn	*Eau Claire*
Culver, William Sloan	*Eau Claire*
Currie, Agnes Ann	*Superior*
Dachtler, Mildred Veronica	*Council Bluffs, Iowa*
Dauksys, Joseph	*Newark, N. J.*
Davey, Allan Cecil	*Sheboygan*
Davey, Ethel	*Dodgeville*
Davidoff, Isidore Zolmon m	*Milwaukee*
Davidson, Jay Hyman	*Racine*
Davis, Persis	*Oshkosh*
Davis, Robert William	*Madison*
Dawson, Harriet Ione	*La Crosse*
Day, Alice Marie	*St. Louis, Mo.*
Debbink, Marion	*Milwaukee*
Dehler, Sophie A.	*Helena, Mont.*
Delker, Loretta Mathilda	*Madison*
Dellicker, Doris Elliott	*Milwaukee*
Desimval, Grace Marion s e	*Superior*
Dick, Helen Mae	*Philipp, Miss.*
Dickens, Marion	*Milwaukee*
Diebold, Frances Elizabeth s e	*Madison*
Dobry, Lillian Anna m	*Algoma*
Docter, Myron George	*Milwaukee*
Dodge, Howard McLelland	*Valparaiso, Ind.*
Doege, Paul Frederick m	*Marshfield*
Doerfler, Frederic Anderson	*Wauwatosa*
Doerr, Margaret Alice m	*Mt. Vernon, Ind.*
Doggett, Ruth Janet	*Danville, Va.*
Donald, Delma Ellen	*Madison*
Dopp, Edith Isabel	*Davenport, Iowa*
Dowling, Philip Herschel	*Madison*
Downey, Hugh Henry	*La Crosse*
Draper, John Harold	*Oak Park, Ill.*

Dredge, Thomas Joseph m	*Madison*
Dreier, Hazel Lorinda s e	*Norwalk*
Dreps, Joseph Antone	*Tomah*
Dummer, Frances	*Chicago, Ill.*
Dunbar, Elizabeth Dawson	*Elkhorn*
Dwight, Frances Elizabeth	*Madison*
Ede, Kenneth Leland	*Monroe*
Edson, Dewey George	*Alcester, S. Dak.*
Egan, John Marion l	*Highland*
Elflein, Vivian Viola	*Milwaukee*
Ellis, Ivan George m	*Milwaukee*
Ellis, William Buxton	*Chicago, Ill.*
Emanuel, Eulalea Alfreda s e	*Shawano*
Emerson, Adolph Herman	*La Crosse*
Emery, Clyde Burtis	*Kansas City, Mo.*
Ensign, Wilbur Powell	*River Falls*
Epstein, Janet Sylvia s e	*Delavan*
Eschweiler, Elaine Katharine	*Madison*
Espinosa, Carmen Gertrude	*Albuquerque, N. Mex.*
Ethier, Eunice Mariette s e	*Milwaukee*
Evans, Alice Louise	*Shuqulak, Miss.*
Evans, Dorris	*Spiceland, Ind.*
Evans, Margaret	*Indianapolis, Ind.*
Evans, Maysel Evelyn	*Bangor*
Evans, Richard Donald m	*Madison*
Exley, Erwin William	*Menasha*
Fagan, Robert Alvin m	*Milwaukee*
Falk, Adele Marie	*Lake Mills*
Falk, Philip Hadley	*Lake Mills*
Farley, Lenora Agnes	*Madison*
Farrell, Mae Josepha s e	*Chicago, Ill.*
Feckler, Mary Elizabeth	*Fargo, N. Dak.*
Fee, Marie Antoinette s e	*Superior*
Feeney, John Matthias m	*Glenwood, Minn.*
Fiedler, Donald John	*Mineral Point*
Fiedler, Ralph Oliver	*Milwaukee*
Filtzer, Flora Marie Louise	*Milwaukee*
Finch, Edith Louise s e	*Peoria, Ill.*
Fisher, Elizabeth Mildred s e	*Madison*
Fisher, Margaret	*Chicago, Ill.*
Fisher, Susie s e	*Galveston, Tex.*
Flatz, George Henry m	*Milwaukee*
Follett, Lothrop Frank	*Ottawa, Ill.*
Forman, Leland Monroe	*Neillsville*
Forsberg, Allen Bennett	*Duluth, Minn.*
Foss, Arthur Rolf	*Onalaska*
Fox, Raymond Walter	*Waterloo*
Francis, Marguerite Arline	*Brooklyn, N. Y.*
Franklin, Louis	*Milwaukee*
Frederickson, James Fyfe	*Madison*
Fremstad, Alvina Clara	*La Crosse*
Fritsch, Dorothy	*Milwaukee*
Fucilla, Joseph Guerin s e	*Racine*

Fugina, Clarence Edward	*Arcadia*
Fuller, Agnes M. s e	*Madison*
Gaardner, Clarence Arthur	*Spring Valley*
Gapen, Edna Courtney s e	*Whitewater*
Gapen, Zelda Judith	*Whitewater*
Gardner, Irene Gladys s e	*Ashland*
Geer, Ruth-Lloyd	*Toledo, Ohio*
Geske, Walter Albert	*Colgate*
Gibson, Virginia Lundy	*Muskogee, Okla.*
Gill, Harold Arthur	*Madison*
Gill, Helen Etta	*Madison*
Gleason, Joseph Baird, Jr.	*Madison*
Gleerup, Grace Alise	*Madison*
Glenn, Robert Ralph	*Prairie du Chien*
Gnagi, Will Bender m	*Monroe*
Gnewikow, Sylvia Heloise s e	*Norwalk*
Goessling, Wilber William	*St. Louis, Mo.*
Goff, Sidney Britton m	*Elkhorn*
Gold, Ida E.	*Berlin*
Goodwin, Marion	*Hartland*
Gordon, Richard Jacob m	*Chicago, Ill.*
Goss, Marion Maxwell	*Oshkosh*
Graham, Esther Gertrude s e	*Milwaukee*
Grams, Raymond Carl	*La Crosse*
Greene, Gladys s e	*Madison*
Greenwood, Charles George	*Emerson, Iowa*
Gregg, Mabel Josephine	*Madison*
Grover, Georgia B.	*Kenosha*
Gruenheck, Gussie Ann s e	*Madison*
Grueningen, Rebecca von s e	*Keil*
Gutenkunst, Eleanor Marie	*Milwaukee*
Haass, Marie Evelyn	*Pewaukee*
Hadley, Gladys Richey	*Ft. Wayne, Ind.*
Hall, Marion Ferris	*Evanston, Ill.*
Halperin, Harry	*Madison*
Halsor, Josephine Marie se	*De Forest*
Hamacheck, Antoinette	*Kewaunee*
Hames, Mary Catherine	*Madison*
Hammond, Harriet Elizabeth	*Antigo*
Hammond, Reginald Wilmot	*Manitowoc*
Hancock, Madeleine Prudence	*Chicago, Ill.*
Hanitch, Catherine Louise	*Superior*
Hanks, Julia Judge	*Madison*
Hanson, Amanda Mathilda	*Ashland*
Hanson, Julian	*Sturgeon Bay*
Harley, Mary Lillian	*La Crosse*
Harman, John Claire	*Sparta*
Harper, Helen Campbell	*Burlington*
Hart, Mae Evelyn	*Waunakee*
Hartman, Leone Anne	*Madison*
Hatch, Irma Clex s e	*Eau Claire*
Hauck, Rachael	*Fairbury, Nebr.*
Heath, Catherine King	*Green Bay*

Hemenway, Lillian Daetsch s e	*Madison*
Hemingway, Robert Wing m	*Mattoon*
Hendrickson, Norma Elvira	*Madison*
Hess, Ardis Marie m	*Mauston*
Heth, Louis Ebbert	*Racine*
Heysett, Carol Josephine	*Ludington, Mich.*
Hill, Marian Isabelle s e	*Milwaukee*
Hinkins, Marcia Nelson s e	*Delavan*
Hinman, Dorothy	*Sandwich, Ill.*
Hintz, David Herman	*Almond*
Hiss, Agnes Ames	*Casper, Wyo.*
Holcombe, Robert Lyndon m	*Madison*
Hollands, Dorothy May	*Oak Park, Ill.*
Holscher, Herbert Frederich	*McFarland*
Hooper, Dorothy June	*Aberdeen, S. Dak.*
Hoover, Kenneth Harry	*Milwaukee*
Hornibrook, Kathryn	*Marinette*
Horton, Laura Henrietta	*Winona, Minn.*
Hovlid, Leonard Marvel s e	*Menomonie*
Howard, George Ephraim	*Pittsburgh, Pa.*
Hsii, Wei Ming	*Peking, China*
Hubbard, Lucille Marie	*De Soto*
Hughes, William Arthur s e	*Carrolville*
Huhn, Natalie Theodora	*Oshkosh*
Hullinger, Ruth Hunt	*Chicago, Ill.*
Hume, Jessie Henrietta	*Los Angeles, Cal.*
Hunt, Lewis Salisbury	*Milwaukee*
Hunt, Lydia Elizabeth s e	*Madison*
Hunt, Rhea s e	*Barronette*
Hunter, Margaret Mary s e	*Billings, Mont.*
Huston, Elizabeth	*Paris, Ill.*
Hyslop, Volney Butman	*Madison*
Hyzer, Leland l	*Janesville*
Ingli, Irene Gwendolen	*Ellsworth*
Ingram, Walter Julius	*Rice Lake*
Irish, Esther June	*Brookings, S. Dak.*
Ising, Alta Lucille	*Oshkosh*
Jackson, Dorothy Gale	*Greeley, Colo.*
Jacobson, Roland Arthur m	*Madison*
Jenison, Frances Ernestine s e	*Fond du Lac*
Jennings, Blanford	*Washington, D. C.*
Jewéll, Ernest Lemon m	*Hillsboro*
Johnson, Almeda Alice	*Augusta*
Johnson, Harvey Chester m	*Superior*
Johnson, Howard Lauritz s e	*Racine*
Johnson, Miriam Louise	*Bellefontaine, Ohio*
Johnson, Thelma Beryl	*Madison*
Jolliffe, Elsie Lucy	*Plymouth, Mich.*
Jones, Mabel Jennings	*Waupun*
Jones, Russell Alger	*Oak Park, Ill.*
Jorsch, Ianthe Marie	*Manitowoc*
Jost, Peter s e	*Mondovi*
Kaumheimer, Leon Emanuel	*Milwaukee*

Keith, Helen Lincoln	*Galesville*
Kellogg, Hazel Irene	*Marshalltown, Iowa*
Kellogg, Lucy Mary s e	*Janesville*
Kelsey, Carl Hammond m	*Stevens Point*
Kentzler, Paul R.	*Madison*
Kernan, Kathryn Elma	*Madison*
Kessenich, Lucille Ernestine	*Madison*
Kinne, Constance s e	*Elkhorn*
Kitselman, Mildred	*Munice, Ind.*
Knapp, Edwin John s e	*Hales Corners*
Knowles, Edith Gray	*Philadelphia, Pa.*
Kolitsch, Louis Joseph	*Appleton*
Komers, Paula Vera	*Wausau*
Krembs, Ferdinand Richard m	*Stevens Point*
Kreutz, George Charles	*La Crosse*
Kropf, Dorothy Anne s e	*Madison*
Kucheman, Norman Albert	*Minneapolis, Minn.*
Kuenzli, David Benjamin	*Milwaukee*
Kupperman, Frances Victoria m	*Madison*
Lacey, Lydia Joy	*Madison*
Lamberson, Winnifred Alida	*Whitehall*
Lambrecht, Marguerite	*Madison*
Langmade, Ruth	*North Baltimore, Ohio*
Laskey, Norman Franklin m	*Superior*
Latimer, Frances Hamilton s e	*Mellen*
Latta, Dorothy Elizabeth s e	*Des Moines, Iowa*
Lauman, Grace Longshore s e	*Breckenridge, Mo.*
Lauter, Elfreda Elizabeth	*Indianapolis, Ind.*
Lehmann, Jane Schrumpf	*Madison*
Lentz, Robert Carl	*Mayville*
Lerdahl, Nels Christian s e	*De Forest*
L'Estrange, Gerald Aloysius m	*Milwaukee*
Lewis, Pauline S.	*Madison*
Lichtenwalner, Roy P.	*Monroe*
Lightbody, Julia Thomas	*Superior*
Lightfoot, Lester Roderick m	*Cloquet, Minn.*
Linden, Gabriel Eric m	*Des Moines, Iowa*
Liu, Ven Hai	*Suchow, China*
Loose, Kathryn Alice s e	*Waukesha*
Loughlin, Edward Leo	*Madison*
Lounsbury, James Anderson	*Pretoria, S. Africa*
Lowe, John William m	*Whitehall*
Lucas, Doris Gretchen s e	*Milwaukee*
Luce, Lester Oliver	*Eau Claire*
Lugg, Joseph Henry	*Whitewater*
Lyons, Elizabeth Loyola	*La Crosse*
McAdams, Mary s e	*Mukwonago*
McCarthy, Helen Mary	*Madison*
McChesney, Annie Elizabeth m	*Dane*
McClelland, Ruth Marie s e	*Findlay, Ohio*
McConnell, Beatrice Jessie	*Sherrard, W. Va.*
McCullough, Marion Edith	*Wauwatosa*
McDermott, Leone	*Darlington*

McDonald, Edward Martin	*Beaver Dam*
MacEwan, Charlotte Genevieve s e	*Kalamazoo, Mich.*
McKellar, Jessie Mae s e	*Blanchardville*
McKenzie, Helen Natalie s e	*Kenosha*
McKitrick, Mildred Marie	*Madison*
McKone, Fern Marie	*Green Bay*
MacLaurin, Dorothea Drummond	*Madison*
MacLean, Chester Eugene	*Beloit*
McMullen, Glenn John	*Tomah*
McMurry, Ora Richard	*Evansville*
Mabley, Hilda Barney s e	*St. Louis, Mo.*
Macfarlane, Elizabeth Adeline	*Duluth, Minn.*
Madden, Helen Monica s e	*Tomah*
Madison, Frederick William	*Oconomowoc*
Mailer, Andrew Robert m	*De Pere*
Mallory, Margaret Wilde s e	*Hampton, Ia.*
Markham, Elizabeth	*Manitowoc*
Markus, Norbert Williams	*Quincy, Ill.*
Marsden, Wendell Herbert	*Fennimore*
Martin, Henry Peter Jr.	*Appleton*
Martineau, Mary Lenore s e	*Marinette*
Martineau, Thomas Burgoyne	*Oshkosh*
Martinstein, Marie	*Oskaloosa, Iowa*
Marty, Rosa	*Council Bluffs, Iowa*
Mathews, Lorraine K	*Ashland*
Mattesan, Beatrice Elizabeth	*Clintonville*
Mayer, Chester Justin	*Milwaukee*
Mead, Kathryn Marcia	*Indianapolis, Ind.*
Meadows, Elizabeth White	*Wausau*
Mecartney, Malcolm	*Hindsale, Ill.*
Meinert, Albert Erwin	*La Crosse*
Meyer, Anita Louise	*Wauwatosa*
Meyer, Helene Frances s e	*Holland, Mich.*
Meyer, Nella Katherine	*Holland, Mich.*
Meyer, William Frederic m	*Milwaukee*
Meyers, Grace M.	*Belvidere, Ill.*
Milbrandt, Ruth Victoria s e	*Brooklyn*
Miller, Allen Hollis	*Cairo, Ill.*
Miller, Russell Howard m	*Whitewater*
Mitchel, Mira Louise s e	*Madison*
Mitchell, Florence Elizabeth	*Sun Prairie*
Mlsna, Ann Agnes	*Cashton*
Monfried, Clara	*Madison*
Moore, Charles Francis	*Madison*
More, Jessie Ann	*Wimbledon, N. Dak.*
Morehouse, Lillian Maude	*Elkhart, Ind.*
Morgan, Genevieve Eleanor	*Des Moines, Iowa*
Moss, Winifred	*Milwaukee*
Muegge, Arthur Carl	*Walsh, Ill.*
Mueller, Emma Caroline s e	*Madison*
Mueller, Gustav Gottlieb	*Princeton*
Muskat, Harry	*Milwaukee*
Mykel, Kathryn Ciperlie	*Weyauwega*

Naeckel, Harold William	*Mayville*
Neal, Margaret Eastwood s e	*Lake City, Minn.*
Neiberger, Mary Coe	*Normal, Ill.*
Nelson, Ernest Darandus m	*Arcadia*
Nelson, Mark Snowden m	*Canton, Ill.*
Nettleship, Carolyn Taylor	*St. Louis, Mo.*
Newcomb, Alvah Lay m	*Pepin*
Newcomb, Clara Forest	*Waupun*
Newcomb, Helen	*River Falls*
Newsom, Edith May	*New Bloomfield, Mo.*
North, Ludlow Frey	*Green Bay*
Northup, Esther Grinnell	*Marshalltown, Iowa*
Oakes, Alice Elizabeth s e	*Canton, Ohio*
Occena, Mateo Felix	*Washington, D. C.*
O'Hora, Sarah Agnes	*Mazomanie*
O'Keefe, Aileen Elizabeth s e	*Waunakee*
O'Keefe, Lucille Elizabeth	*Madison*
Oleson, Eleanor Marie	*Rio*
Ophaug, Ruth	*Madison*
Oppel, Catherine Wells	*Madison*
Orr, Robert Connell	*Waukesha*
Osgood, Wayland	*Windsor*
Otteson, Thelma Antonette	*Viroqua*
Owen, Helen Joanne	*Milwaukee*
Pabst, Pauline Theckla	*Oconomowoc*
Paddock, John Munger	*Milwaukee*
Palmer, Lora Belinda	*La Crosse*
Parkhill, Frances Margaret	*Rochester, Minn.*
Parkinson, Mary Julia	*Madison*
Passmore, Josephine Bloodgood	*Milwaukee*
Paul, Harold Henry	*Milwaukee*
Paul, Olin m	*Marshfield*
Peabody, Charlotte Elizabeth	*Madison*
Peck, Purcelle Vernita	*Pana, Ill.*
Penhallegon, Marian Loveday s e	*Mineral Point*
Pepper, Olive Walton s e	*Allensville, Ky.*
Perez, Asuncion Arriola	*Bulacan, P. I.*
Perez, Cirilo Barcial w l s	*Bulacan, P. I.*
Perstein, Isador Arnold	*Madison*
Pestalozzi, Hasso Karl	*Milwaukee*
Peterson, Edward Nohl m	*Florence*
Peterson, Eleanor Lelia s e	*Madison*
Peterson, Leo Willis m	*Granton*
Peterson, Marvin Garfield m	*Geneva, Ill.*
Petley, Ruth Alice	*Milwaukee*
Pett, Alma Emilie Johanna	*Johnson Creek*
Phillips, Burr Wendell	*De Pere*
Phillips, Vera Irma s e	*Milwaukee*
Pickard, William John	*Evanston, Ill.*
Pier, Harry McKay	*Richland Center*
Pleck, Joseph Harold	*Sturgeon Bay*
Plowman, Paul Dearborn s e	*Weyauwega*
Poertner, Dorothy Janet	*St. Louis, Mo.*

Pointer, Ruth	*Birmingham, Ala.*
Pollock, Bertha Maude	*Gilman, Ill.*
Potts, Esther Viola	*Madison*
Pouder, Helen Catherine	*Indianapolis, Ind.*
Pradt, Alan Emmons	*Wausau*
Preston, Mary Ellen s e	*Brodhead*
Procknow, Bernice Margaret	*Chicago, Ill.*
Quam, Hazel Erna	*Ashland*
Quinlan, Margaret Amelia	*Antigo*
Ralph, Edwin Donald	*Wauwatosa*
Rastede, Ethel Bernice	*Morrison, Ill.*
Raymond, Grace Brewster	*Newton Center, Mass.*
Reed, Zilpha Eliza s e	*Blue River*
Resh, Warren Herlan s e	*Winnebago, Ill.*
Reynolds, Helen Elizabeth	*Norfolk, Nebr.*
Rhodes, Lillian Marie	*Madison*
Richey, Mary Dorothy s e	*Glenwillard, Pa.*
Riley, Eleanor Farrell	*Madison*
Roberts, Arnol Victor	*Wild Rose*
Roberts, Carol Aleta	*Wild Rose*
Roberts, Esther Josephine	*Madison*
Robertson, Clark Mead	*Plymouth*
Rock, Helen Louise s e	*Superior*
Rockwell, Ruth Evelyn s e	*Crown Point, Ind.*
Roessler, Evora Kathryn s e	*Milwaukee*
Rogers, Mildred Adella	*Highland Park, Ill.*
Rose, Helen Jessie	*Willoughby, Ohio*
Ross, Florence Marie	*Beloit*
Rottiger, Alvin William s e	*Platteville*
Rounsevell, Dorothy May	*River Falls*
Rowe, Marjorie Isabel s e	*St. Johns, Minn.*
Ruder, Leona Emily	*Madison*
Rummele, Ruth Elizabeth	*Sheboygan*
Russell, Cecil Macauley	*Fall Creek*
Ruth, Edith Johannah s e	*Superior*
Ruth, Signa Mary	*Superior*
Ryan, Frances Arline	*New York, N. Y.*
Ryburn, Florence Olive	*Bloomington, Ill.*
Rygh, Edgar Andrew m	*Madison*
Sackett, Helen Elizabeth	*Springfield, Ohio*
Salisbury, Jane Frances	*Sparta*
Sampson, Anna Elizabeth	*Kansas, Iowa*
Samuels, Agnes Helen s e	*Madison*
Sanborn, Vinnie Frances	*Madison*
Schaper, Dorothy s e	*Milwaukee*
Schapiro, Saul m	*Milwaukee*
Schecker, Emmy	*Milwaukee*
*Schlesselman, Louise Ida	*Lafayette, Ind.*
Schlotthauer, Gertrude M.	*Madison*
Schmedeman, Katharine	*Madison*
Schneller, Lucille Amber	*Arcadia*

*Died January 29, 1920

Schoen, Walter Renold	*Green Bay*
Schramm, Frank Higgson	*Burlington, Iowa*
Schroeder, Marion Elaine	*Chicago, Ill.*
Schulz, Irwin Paul m	*Milwaukee*
Schumaker, Arlisle	*Milwaukee*
Schweizer, Gretchen Marie	*La Crosse*
Scott, Margaret Helen s e	*Richland Center*
Seaton, Dorothy Melissa	*Canton, Ill.*
Seguin, Hazel Arlina s e	*Superior*
Seids, John William Jr.	*Moline, Ill.*
Shaw, Don Lee	*Delavan*
Shepard, Marguerite Eugenia s e	*Madison*
Sherburne, Beatrice	*Fremont*
Sherr, Joe Robert	*Milwaukee*
Shirey, Hazelbelle	*Madison*
Shreve, Adrienne Alba	*Washington, D. C.*
Shuttleworth, Saadi Sappho	*Madison*
Sillar, Anne	*Plainfield, Ill.*
Simons, Grace Elizabeth	*Chicago, Ill.*
Simpson, Alexander Lewis	*Shullsburg*
Sinaiko, Herman Louis	*Madison*
Sinaiko, Leila s e	*Madison*
Sister Mary Natalie O. S. D.	*Madison*
Sister Mary Timothy	*Sinsinawa*
Skaar, Marguerite	*La Crosse*
Smart, Dorothy Hathaway	*Davenport, Iowa*
Smiley, Florence Ida	*Madison*
Smith, Frances Eugenia	*Madison*
Smith, Lewis Pettibone	*Chicago, Ill.*
Smith, Mabel Mayhew	*Chicago, Ill.*
Snyder, Helen Marie	*Massillon, Ohio*
Synder, Verna Mae s e	*Crawfordsville, Ind.*
Sorenson, Thorval Levi m	*Racine*
Spaulding, Juniet Walker	*Princeton, Ill.*
Spawn, Robert Bayli	*Beloit*
Sprague, Murray Hugh	*St. Joseph, Mo.*
Spurgin, Vivian	*Chicago, Ill.*
Staab, Irene Johanna s e	*Wall Lake, Iowa*
Stafford, Grace May s e	*Milwaukee*
Statz, Eleanor Carissa s e	*Madison*
Stavrum, Margaret Regina	*La Crosse*
Steadman, Carolyn Edith	*Chicago Heights, Ill.*
Steadman, Lillian Mable	*Beresford, S. Dak.*
Steeholm, Hardy	*Madison*
Stetson, Marjorie Frances	*Lake Mills*
Stevens, Alton Rogers s e	*Oberlin, Ohio*
Stevens, Linton Cooke	*Milwaukee*
Stevens, Thelma Butler	*Lancaster*
Stevenson, Eva Caroline s e	*Madison*
Stevenson, Helen	*Des Moines, Iowa*
Stinson, Mary Gilliam s e	*Mt. Vernon, Ind.*
Stork, Mary Elizabeth	*Madison*
Storms, Ruth	*Glencoe, Ill.*

Sullivan, Laura Frances s e	*Milwaukee*
Sullivan, Veronica Mary s e	*Oshkosh*
Summerville, Warren James	*Madison*
Sumptian, Dorothy s e	*Kendallville, Ind.*
Sutcliffe, Leah Marion s e	*Chicago, Ill.*
Sutliff, Wheelan Dwight	*Rhinelander*
Swan, Mary Florence	*Wauwatosa*
Swancutt, Ida Estelle	*Sioux Falls, S. Dak.*
Swift, Margaret Julia s e	*Darlington*
Tasche, Leslie William	*Sheboygan*
Taylor, Eva Minerva	*Lancaster*
Taylor, Harriett Eliza	*Lafayette, Ind.*
Teare, Dorothy Grace	*Monmouth, Ill.*
Templin, Vera May s e	*Baraboo*
Thayer, Eugene Beetler	*Wausau*
Thomas, James Roy s e	*Loyal*
Thompson, Dorothy s e	*Madison*
Thompson, Ruth Marguerite	*S. Pasadena, Calif.*
Thompson, Troy Melvin m	*Plena, Mont.*
Thomson, John Norman	*Centerville, S. Dak.*
Thornton, David Howard s e	*Atchison, Kan.*
Thurston, Harold Kasson	*Madison*
Titus, Winifred	*Fond du Lac*
Torrison, Mandt	*Manitowoc*
Tsai, Feng	*Peking, China*
Tucker, Frances-Ellen s e	*Madison*
Tuttle, Clifton Milton	*Madison*
Uhl, Helen Grace	*Galesville*
Van Aken, Julia Lois	*Coldwater, Mich.*
Van Dyke, Samuel Philip	*Kilbourn City*
Van Meter, Frances	*Des Moines, Iowa*
*Van Slyke, Josephine Lydia	*Oshkosh*
Vingom, Clair Odin m	*Cleiu, Montana*
Vogel, Samuel Alexander m	*Superior*
Vogt, Lucile Helen	*Milwaukee*
Voit, Bertha A	*Milwaukee*
Voit, Elsa Catherine	*Milwaukee*
Voorhees, Elizabeth Aston	*Washington, D. C.*
Voorhees, Mary Toucey	*Washington, D. C.*
Voss, Evelyn Calvin	*St. James, Minn.*
Votteler, Gretchen Pauline s e	*Waukesha*
Vroman, Charles Hatch	*Oconomowoc*
Wagner, William Walter	*La Crosse*
Waite, Kathleen Mina	*Nashua, Iowa*
Waite, Philip Clawson	*Oshkosh*
Walker, Emroy Clement s e	*Randolph*
Wall, John Irving	*Antigo*
Wall, Mark Henry m	*Eau Claire*
Ward, Ernestine B.	*Brodhead*
Warren, Margaret Helen	*Tomah*
Warsinske, Mildred E. s e	*Marshfield*

*Died January 29, 1920

Waterman, Elizabeth Marion s e	*Racine*
Wegener, James Hugo	*Marshfield*
Weihe, Raymond Guthard s e	*Milwaukee*
Weisman, Jacob Mathew	*Racine*
Weisse, John Jay	*La Crosse*
Weisse, Lester Charles	*Sheboygan Falls*
Wells, Elfreda Strasburger	*Oshkosh*
Welsh, Rodney Costello l	*Madison*
Wertz, Marguerite Monfort	*Madison*
Weston, Frank Lawrence m	*Mason City, Iowa*
Whaley, Carrol Omar s e	*Janesville*
White, Aletha Alice s e	*Grayslake, Ill.*
White, Lola Ferne	*River Falls*
White, Mary Edna s e	*Kent, Ohio*
White, Ruth Virginia	*River Falls*
Whitney, Beryl Esther	*Madison*
Wieben, Anella Marie	*Milwaukee*
Wigder, Clara Florence	*Fond du Lac*
Williams, Ada Griswold	*Oshkosh*
Williams, Dorothy Mae	*Gettysburg, S. Dak.*
Williams, Stalham Leon	*Wilmette, Ill.*
Wilson, Helene Elizabeth s e	*Superior*
Wilson, Katherine Martha	*Superior*
Winckler, Katherine s e	*Madison*
Witter, Marion L.	*Spencer, Iowa*
Wolf, Lorelle Arthur	*Madison*
Wolfe, John Calvin	*Madison*
Wolfe, Seth August	*Madison*
Wray, Marjorie Rebecca	*Seattle, Wash.*
Wright, Hazel E.	*Webster Groves, Mo.*
Wright, Warren Finch s e	*Fond du Lac*
Wyatt, Doris s e	*Butler, Mo.*
Zimmerman, Beulah Worthey s e	*Freemont, Ohio*
Zimmerman, Vernon Robert	*Wentworth, S. Dak.* —657

Course in Commerce

Abbott, John Rodney	*Wilton*
Abrahamson, Abe	*Winthrop Harbor, Ill.*
Aikins, John Thomas	*Viroqua*
Albrecht, Karl Albert	*Appleton*
Anderson, Alex James	*Oregon*
Anderson, Earl Canute	*Grantsburg*
Arvidson, Oscar Frederick	*Marinette*
Aschenbrener, Willard George	*Park Falls*
Ballhorn, Gordon Charles	*Bear Creek*
Barager, Miles Emerson	*Owen*
Barnes, Harry George	*Campbell, Minn.*
Bartlett, Harriet Dorothy	*Madison*
Beck, Howard Hubert	*Milwaukee*
Beckwith, Wayne Izov	*Cincinnati, Ohio*
Bekkedal, Darline Madelia	*Westby*
Bennett, Charles Rathman	*Flandreau, S. Dak.*

Bennett, Loren	*Flandreau, S. Dak.*
Benson, Elmer Fred	*Clear Lake*
Benz, Karl John	*Canton, S. Dak.*
Bettendorf, Arthur Joseph	*St. Anne, Ill.*
Bieber, Peter Edgar	*La Crosse*
Birong, Vernon Thomas	*Madison*
Blair, Walter Borden	*Plainfield*
Blowney, Russell Page	*Waukegan, Ill.*
Boardman, Seymour Cook	*Milwaukee*
Boerke, Edison Morse	*Wausau*
Bohnert, Elmer Robert	*Juneau*
Bolender, Joseph Bridge	*Monroe*
Borden, Ruthwin Bennett	*Plainfield*
Bowers, Newton L.	*Rice Lake*
Brandt, Clarence Albert	*Fennimore*
Brennan, Leo Thomas	*Madison*
Buckmaster, Dean Albert	*Kenosha*
Buckmaster, Sada Eleanor	*Madison*
Buxton, James Clifford	*Platteville*
Carter, Warren Tuttle	*Madison*
Chapman, Charles McCoy	*Bloomington*
Christensen, Anna Marie	*Racine*
Clear, Ewart Keller	*Ft. Wayne*
Cohen, Fred	*Marinette*
Coit, Lew Garrison	*Hudson*
Conley, Claude Swanson	*Frankfort, Ind.*
Conrad, Clifford Dewey	*Baldwin*
Cowie, Allen John	*Superior*
Cristy, Kenneth Earl	*Waupaca*
Cullen, Kenneth Arthur	*Peshtigo*
Currie, Earl William	*La Crosse*
Curtin, John Leslie	*Madison*
Dahm, Irene Lancaster	*Madison*
Darrenougue, Raymond Sylvester	*Reedsburg*
Degerstedt, John Richard	*Barron*
Deysenroth, Carl Frederick	*Madison*
Dickens, John Shannon	*La Crosse*
Dietzman, William Paul	*Richland Center*
Dix, Arno Viol	*Port Washington*
Donohue, Raymond Earl	*Tipton, Iowa*
Dorries, Charles Wetzel	*Buffalo, N. Y.*
Drotning, Henry O.	*Staughton*
Duecker, Hubert Carl	*Kiel*
Dunne, Newman Leo	*Cedarburg*
Edwards, Ethel Marie	*Marion*
Eggebrecht, Otto August	*Wausau*
Estvad, Ruth Christine	*Madison*
Fairfield, Gordon Grey	*Green Bay*
Fanning, Willis Moore	*Delavan*
Farrell, Carl William	*Sterling, Ill.*
Feddersen, Nels Cristian	*Racine*
Feldman, Joseph George	*Madison*
Felten, Clarence B.	*Milwaukee*

Ferguson, Russell Owen	*Evansville, Ind.*
Finegan, Adra Bland	*Arlington Heights, Ill.*
Fischer, William G.	*Unity*
Fitzgibbons, James Maurice	*Monroe*
Fleckenstein, Joseph Arthur	*Marshfield*
Fox, Philip Gorden	*Waterloo*
Fricker, William Henry	*Whitewater*
Frohback, Harold Otto	*Three Forks, Mont.*
Gilbert, John Vernon	*Sturgeon Bay*
Gotfredson, Roy Charles	*Green Bay*
Grape, Leon Albin	*Bruce, S. Dak.*
Gutenkunst, Charles Albert Jr.	*Milwaukee*
Haley, John Wendell	*Madison*
Halperin, Herman Bernard	*Madison*
Halverson, Stener Benjamin	*Oregon*
Hardy, Earle William	*Waukesha*
Harrison, Kathleen	*Madison*
Hatch, Vernon Victor	*Eau Claire*
Haugan, Addison	*Beloit*
Hausmann, Eleanor Henrietta	*Madison*
Hawley, William Emery	*Baldwin*
Hazard, Charles Mackintosh	*Milwaukee*
Heffernan, Martin Aloysius	*Caryville*
Heins, Marguerite Mabel	*Keil*
Heisman, Milton John	*Watertown*
Heseman, Earl John	*Evansville*
Hile, James Robertson, Jr.	*Superior*
Hirsheimer, Earl Spence	*La Crosse*
Hodge, Hobart Valentine	*La Crosse*
Hoffman, Jennie Louise	*Madison*
Hofsoos, Emil	*Stevens Point*
Hollatz, Clarence Alexander	*Madison*
Holmes, Paul Allen	*Milton*
Holt, Norman Herbert	*Cambridge*
Holter, Hieronymus Heyerdahl	*Christiania, Norway*
Holtz, Wilbur Edmund	*Columbus*
Hooey, Clifford Kile	*Rice Lake*
Horton, Ralph	*Miles City, Mont.*
Hubbell, Ernest Hamand	*Kansas City, Mo.*
Huse, Edwin Ernest	*Los Angeles, Cal.*
Iversen, Agnes Mathilde	*Stoughton*
Jacobson, Edna Louise	*Madison*
Jerg, Vera Luella	*Janesville*
Jessell, Reuben Fred	*Madison*
Johnson, Norman Gustave	*Wausau*
Jung, Wesley Winter	*Sheboygan*
Kickhaefer, William Louis	*Milwaukee*
King, Clarence Albert	*Butte, Mont.*
Klug, Lylas Paul	*Merrill*
Klumb, Carl Edwin	*West Bend*
Knickel, William Dewey	*Campbellsport*
Knilans, Stuart Crocker	*Sheboygan*
Kuebler, Walter Leroy	*Viroqua*

Lamb, Harold Wadsworth	*Grand Rapids, Mich.*
Lammers, Adrian Lucius	*Chicago, Ill.*
Larson, Milo Reese	*Dodgeville*
Laun, Carl Henry	*Kiel*
Lehr, Albert Marks Jr.	*Oklahoma City, Okla.*
Leonhard, George Jacob Jr.	*Marshfield*
Lins, Clemens Michael	*Spring Green*
Little, Harvey Bonnell	*Appleton*
Loewenthal, Richard Joseph	*Chicago, Ill.*
Lyons, Raymond D.	*Lansing, Mich.*
McCartney, Ernest Roy	*Milton*
McCullough, Leo James	*Fond du Lac*
McIntosh, Clarence William	*Edgerton*
McKeague, John Jay	*Wautoma*
McKinnon, Stewart McLaren	*Superior*
McKivergin, James Edward	*La Crosse*
MacLaren, John Archibald	*Spooner*
McRae, Grace	*Rhinelander*
Madden, John D.	*Fox Lake*
Maier, Victor Irwin	*Antigo*
Mann, Gustav Bruno	*Evansville, Ind.*
Manson, John Nicolls Jr.	*Wausau*
Mattox, Ronald Clark	*Aurora, Ind.*
Melvin, James Dewey	*La Harpe, Ill.*
Meyer, Harvey Gustav	*Madison*
Miller, Chester Joseph	*Milwaukee*
Mishelow, Edward David	*Milwaukee*
Morrissey, Lewis William	*Madison*
Myrland, Eiel Harmon	*Mauston*
Neisser, Walter Ralph	*Milwaukee*
Nelson, Arthur Tillman	*La Crosse*
Nelson, Dewey Vanard	*Darlington*
Newell, Lynn Fields	*Oshkosh*
Newman, Robert Thurgood	*Mellen*
Niebergall, Floyd Arthur	*Pawpaw, Ill.*
Nolen, Herman	*Muskegon, Mich.*
O'Keefe, Alexis Wyckoff	*Madison*
Olds, Helen Brunette	*Albany, Ill.*
Olesen, Julia Amanda	*Humbolt, Iowa*
Olin, Will Garth	*Florence*
Olson, Helen Isabel	*Madison*
Omsted, Karl R.	*Stoughton*
Paine, Wendell Wyman	*Milwaukee*
Peach, Lloyd	*Edgerton*
Perry, Robert Hazard	*Superior*
Peterman, William Frederick	*Merrill*
Petersen, Ralph Henry	*Milwaukee*
Peterson, Emory Jerome	*Scandinavia*
Porter, Paul Wood	*Madison*
Potter, James Keith	*Huron, S. Dak.*
Presser, Erwin Joseph	*Milwaukee*
Prochnow, Hubert Victor	*Milton*
Ramsett, Clarence	*Viroqua*

Rehberg, Harold Romaine	*Janesville*
Rietow, William Howard	*Sheboygan*
Rinder, George Henry	*Sioux Falls, S. Dak.*
Roth, Helen Sophia	*Madison*
Routt, Myron Meyer	*Milwaukee*
Royce, Henry Burnside	*Madison*
Ruffolo, Fred	*Racine*
Russell, Ruth	*Great Bend, Kan.*
Rusterholz, Carl Henry	*Manitowoc*
Ryan, Patrick Henry	*Sheboygan*
Sammes, Malvena Elizabeth	*Madison*
Sampson, George Nelson	*Minong*
Schaab, William Kenneth	*Auburn, Ind.*
Schaffner, Henrietta	*Mt. Pleasant, Iowa*
Schanen, Paul	*Stevens Point*
Schmidt, Arno John	*Davenport, Iowa*
Schmiege, Herbert John	*Appleton*
Schoeneberg, Edwin Arthur	*Wausau*
Schuette, Donald Hentscher	*Manitowoc*
Schwenn, Bertha Jane	*Madison*
Seeber, Taylor Hayhurst	*Houghton, Mich.*
Segel, Joe	*Laurel, Miss.*
Seifert, Carl Julius	*Jefferson*
Sell, Vernon Wallis	*Reeseville*
Severson, Conrad Edwin	*Forestville*
Sidie, Stanley Raymond	*Viroqua*
Silbernagel, Edward Godfrey	*Wausau*
Sinagub, Jacob J.	*Madison*
Sitterly, Ada Martha	*Spring Valley, Ill.*
Smith, David William	*Milton*
Smith, Don Day	*Milwaukee*
Smith, Don Wheeler	*Clinton, Iowa*
Smith, Giles Vance	*Indianapolis, Ind.*
Snow, William Patrick	*Ashland*
Soderberg, Lillian Marie	*Barron*
Sollie, Percy	*Ashland*
Sparling, Elliot Wallford	*Ashland*
Spettel, Marcus Joseph	*La Crosse*
Stamm, Walter Albert	*Dillon, Mont.*
Stark, Theodore Eugene	*Madison*
Statz, Carolyn Agnes	*Madison*
Steele, Margaretta Ann	*Sparta*
Steninger, George Edwin	*Parker, S. Dak.*
Stolte, Herbert Albert	*Reedsburg*
Stout, Richard Harding	*Indianapolis, Ind.*
Strope, Loyd Morton	*Madison*
Sunderland, Dean Page	*Omaha, Nebr.*
Sundt, Percy Odin	*Stoughton*
Taylor, Arthur Chandler	*Sioux City, Iowa*
Teckemeyer, Adolph Otto	*Madison*
Terkel, Richard Benjamin	*Milwaukee*
Theisen, George Dewey	*Green Bay*
Thompson, Helen Irene	*St. Croix Falls*

Tillisch, M. Ravn	*Merrill*
Tower, Earl Jasper	*Madison*
Travers, C. Wesley	*Port Washington*
Van Gent, Genevieve Philomena	*Madison*
Van Gent, Paul	*Madison*
Walker, Harland Bert	*Almond*
Walker, William Edward	*La Crosse*
Ward, Truman Lane	*Madison*
Warner, Mason Michael	*Chicago, Ill.*
Weeks, Ralph Emon	*Sharon*
Weinke, Oscar Arnold	*Ripon*
Welch, Stanley Edwin	*Chicago, Ill.*
White, Arthur Bradford	*Madison*
Wilder, Lloyd L.	*Evansville*
Wilkinson, Anna Edna	*Spring Green*
Williams, Frank McKinley	*Earl*
Williams, Porter Ackerman	*Estherville, Iowa*
Wipperman, Hildegard Amalia	*Shawano*
Wolf, Walter E.	*Indianapolis, Ind.*
Wolfram, Herbert Edward	*Watertown*
Wood, George Emery s e	*Cottage Grove*
Wright, Samuel Clough	*Winona, Minn.*
Yerly, Leona	*Madison*
Yuill, James Henry	*Cedar Rapids, Iowa* —252

Course for Normal School Graduates

Ashbrook, Esther Fern	*Evansville, Ind.*
Bale, Jeanette Gratiot	*Galena, Ill.*
Bale, Mary Gratiot	*Winnipeg, Canada*
Bast, Elsie Caroline	*Sheboygan*
Bohan, Helen Margaret	*Avoca*
Bonzelet, Gertrude Louise	*Madison*
Bundy, Margaret Annette	*Menomonie*
Caspers, Ole Hilmar	*Grantsburg*
Davies, Dora May	*Oshkosh*
Doleysh, Le Roy Joseph s e	*Two Rivers*
Eberlein, Marguerite Lombard s e	*Madison*
Enckhausen, Ruth	*La Crosse*
Gunnison, Bessie Maria s e	*Madison*
Henry, William Benjamin s e	*Oconto Falls*
Hinterberg, Edward Herman s e	*Eau Claire*
Hollis, Lillian Ruth s e	*Chicago, Ill.*
Jacobs, Louise Marie	*Stevens Point*
Johnson, Helen Sophia	*Woodville*
Kingston, Agnes Ann	*Bovey, Minn.*
Larkin, James H. s e	*Whitewater*
McArthur, Julia Campbell s e	*Superior*
Marshall, Harold William s e	*Madison*
Morrill, Lester M. s e	*Madison*
Morrill, Theresa Fontaine s e	*Powers, Mich.*
Murray, Alice Una s e	*Superior*
Patten, Everett Frank s e	*Chicago, Ill.*

Pollock, Howard Edward	*Milwaukee*	
Quade, Alice Augusta	*Waterloo*	
Raymond, Estella May s e	*Chippewa Falls*	
Riehm, Lemual Smith	*White Pigeon, Mich.*	
Schleck, Leo Peter	*Madison*	
Sherman, Courtney Clarence s e	*Mineral Point*	
Smith, Guy Harold s e	*La Farge*	
Wheeler, Mary Agnes	*Kalamazoo, Mich.*	
Zarling, Esther Bertha	*Milwaukee*	—35

Course in Chemistry

Baechler, Roy Herman	*Fountain City*	
Baernstein, Harry Daniel	*Racine*	
Blish, Mary Eleanor	*Fond du Lac*	
Boehmer, Kathryn Mueller	*Kearney, Nebr.*	
Boyce, Fred Comstock	*Wausau*	
Budnich, Edmund Louis	*Milwaukee*	
Elder, Joshua Gower	*Keokuk, Iowa*	
Farley, Charles Allison	*Oshkosh*	
Flikkie, Henry John	*Viroqua*	
Gooding, Ralph Urban	*Fond du Lac*	
Harwood, Kenneth John	*Merrill*	
Herreid, Myron Tillman	*Blair*	
Hohmann, Frederick Ralph	*Milwaukee*	
Jung, Clarence Schram	*Milwaukee*	
Lamm, Vincent Peter	*Plymouth*	
Layman, George Arthur	*La Crosse*	
Liebe, Henriette Christine	*Stoughton*	
Liskovec, Joseph John	*La Crosse*	
Lueck, Herbert John	*Merrill*	
Lyons, George Barber	*Brodhead*	
McCollum, Edgar DeBolt	*Rice Lake*	
Meloche, Villiers Willson	*Madison*	
Myers, Marvin R.	*Milwaukee*	
Newbury, Edwin Wilson	*Burlington*	
Newton, Mary Alice	*Washington, D. C.*	
Olsen, Hjalmer Leroy	*Madison*	
Perrin, Hubert Logan	*Ashland*	
Peterson, Lester William	*Leonardsville, N. Y.*	
Renner, Arthur	*La Crosse*	
Schmidt, Emil Gustave	*Osceola*	
Sehon, George Louise (Miss)	*Louisville, Ky.*	
Shaw, George Edward	*Superior*	
Stambough, Philip Sheridan	*Stoughton*	
Stevens, William Henry	*St. Albans, Vt.*	
Stewart, John DeMuth	*Waukegan, Ill.*	
Taylor, Francis Nightingale	*Byron*	
Teigen, Arthur Henry	*Prairie Farm*	
Templeton, Hugh Longville	*Lima Center*	
Walsh, Victor Joseph	*Westfield*	
Wiethaup, Roland Albert	*Milwaukee*	—40

Course in Journalism

Allen, Lurah Blanche	*Arkansas City, Kan.*
Beebe, Katherine Naudain	*Kansas City, Mo.*
Bodden, Marie Viola	*Neenah*
Boies, Adella	*Waterloo, Iowa.*
Brindley, John Webster	*La Crosse*
Bugbee, Isabella Curtis	*Indianapolis, Ind.*
Comstock, William Thurston	*Oconto*
Coulter, Gerald Robert	*Southerland, Iowa*
Crook, Dorothy Dee	*Madison*
Crosby, Marion Pennell	*Rhinelander*
Curl, Hobart Grant	*Orange, Cal.*
Custer, Ethel Mae	*Galesburg, Ill.*
Dennis, Henry Charles	*Courtland, N. Y.*
Devine, Dorothy Johnson	*Elgin, Ill.*
Doherty, Marguerite Eleanor	*Williamsburg, Iowa*
Gannon, Leo Vincent	*Sedan, Minn.*
Germer, Frederic Moore	*Chicago, Ill.*
Gifford, Glen Holley	*Madison*
Gilbert, Judith Ann	*Nevada, Mo.*
Goerlitz, Frederic Omar	*Sheboygan*
Gould, Stevens	*Oshkosh*
Heller, Alberta Catherine	*Beaverdam, Ohio*
Jones, Donald Coffin	*Ft. Atkinson*
Kwei, Chung-Shu	*Kaihsien City, China*
Laird, Nellie Marie	*Madison*
Look, Walter Otto	*S. Kaukauna*
McCoy, Bruce Riege	*Sparta*
Maher, Elizabeth	*Kalamazoo, Mich.*
Manson, Charles Leighton	*Wausau*
Morgan, Beatrice Mariquita	*Walott, N. Dak.*
Munro, Alice Beecher	*Princeton, N. J.*
Murphy, Ellida	*Berlin*
Murphy, Lawrence William s e	*Madison*
Noll, Agnes Louise	*Marshfield*
Peterson, Carl Victor	*Washburn, N. Dak.*
Potter, Mildred	*Stanley*
Puchner, Rudolph John	*Menasha*
Ream, Dorothy Hope	*Cleveland, Ohio*
Rummel, Freida Laura	*Cincinnati, Ohio*
Smith, Maxine Francis	*Moline, Ill.*
Sperry, Frederick Lewis	*Oak Park, Ill.*
Sperry, Pauline True	*Toledo, Ohio*
Stewart, Beth Ardis	*Cedar Rapids, Iowa*
Taylor, Claire	*Excelsior, Minn.*
Tilden, Clark Duncan	*Ames, Iowa*
West, Helen Briggs	*Oshkosh*
Wigder, Benjamin	*Milwaukee*
Wright, James Abell	*Milwaukee* —48

General Course

Feldmann, Hans Adolph	*Milwaukee*
Field, Maurice Eugene	*Rice Lake*

Florea, William Bowman	*New York, N. Y.*	
Graham, Alexander Richard	*Madison*	
Krause, Clarence Carl s e	*Milwaukee*	
Matchette, William Harrison	*Madison*	
Stark, Howard Bailey	*Milwaukee*	
Trewartha, Glenn Thomas	*Hazel Green*	—8

Sophomores

Abaly, Mae Estella	*Madison*
Adams, Adelaide Marion	*Oak Park, Ill.*
Adams, Margaret Beattie	*Louisville, Ky.*
Adolphson, Svea Matilda	*Edgerton*
Allen, Julia Christia	*Oshkosh*
Allison, Ruth	*Sioux Falls, S. Dak.*
Alter, Margaret Antoinette	*Manitowoc*
Ames, Kirk Delano	*Madison*
Amidon, Oak McHenry	*Fargo, N. Dak.*
Anderson, Adelaide Julia	*Macfarland*
Anderson, Gaylord Eugene	*Kankakee, Ill.*
Anstey, Mabel Elizabeth	*Beetown*
Archer, Rowland Harold	*Madison*
Aspinwall, Robert Abbott	*Ft. Atkinson*
Atwood, John Thomas	*Gays Mills*
Axtell, Dorothy Marie	*Evansville*
Ayers, Esther Marian	*Dickinson, N. Dak.*
Babcock, John Davis	*Neenah*
Babcock, Mary Ruth	*Milwaukee*
Bagley, Eleanor Opal	*Cambridge*
Baird, Katherine Howard	*Jeffersonville, Ind.*
Bannister, Leland Phelps	*Knoxville, Tenn.*
Barnes, Arthur	*Madison*
Barnes, Edith G.	*Madison*
Bartholf, Katherine	*Glenco, Ill.*
Bartolomi, Juanito A.	*Pila Laguna, P. I.*
Barton, Alice Gwendolyn	*Albany*
Bates, Willard Herald	*Wyocena*
Bauer, Lawrence Hahn	*Chicago, Ill.*
Baxter, Marion Elizabeth	*Duluth, Minn.*
Beard, Miriam Lockwood	*New York, N. Y.*
Becker, Samuel	*Milwaukee*
Beckman, Frederic William	*Kankakee, Ill.*
Beebe, Elizabeth	*Sparta*
Beebe, Margaret	*Sparta*
Beecher, Frances Marie	*Peoria, Ill.*
Beiderbecke, Gretchen Seiffert	*Davenport, Iowa*
Benjamin, Helen Evelyn	*Ashton, Iowa*
Bennett, Elizabeth Barbara	*Viroqua*
Bennett, Margaret Louise	*Madison*
Bergerman, Melbourne	*Pueblo, Colo.*
Berry, Sara Belle	*Chicago, Ill.*
Bianco, Tony Joseph	*Spooner*
Bilstad, Gwendolyn Warne	*Cambridge*

Bingham, Esther Malcolm	*Kenosha*
Birong, Loraine Anna	*Madison*
Bishop, Florence Marian	*Arcadia*
Bjornson, Gunhild Kathryn	*La Moure, N. Dak.*
Black, Roe Robert	*Medford, Nebr.*
Blanding, Bessie Florence s e	*Chicago, Ill.*
Blatter, Erwin Walter	*La Crosse*
Bodden, Matilda Clara	*Neenah*
Boies, Lawrence Randall	*Centuria*
Bond, Eugene Ayres	*Ruxton, Md.*
Bonesteel, Wendell	*Huron, S. Dak.*
Borchers, Gladys Louise	*Madison*
Boswell, Dorothy Roland	*Quincy, Ill.*
Boswell, Roland Rowley	*Quincy, Ill.*
Bowie, Helen McKinstry	*Washington, D. C.*
Boyce, Lloyd Merrill	*Milwaukee*
Boyd, Mary Adams s e	*Toledo, Ohio*
Brader, James Lyman	*Madison*
Bradford, Francis Scott Jr.	*Appleton*
Breese, Gertrude Elizabeth	*Waukesha*
Breidster, Milford Albert	*Milwaukee*
Brennan, Agnes Marcella	*Madison*
Brethauer, Margaret Anne	*Baraboo*
Bridgman, Harriet	*Shirley, Mass.*
Bridgman, Mary Fawcett	*Stanley*
Brinkman, Walter Charles	*Racine*
Brown, Clarence Buxter	*Highland*
Brown, Edward Dexter	*Rhinelander*
Brown, Susan de Laite	*Chicago, Ill.*
Brownrigg, Clara	*Merrimac*
Bryan, Samuel	*Memphis, Tenn.*
Bundy, Egbert Bird	*Eau Claire*
Buob, Helen Dorothy	*Madison*
Burdon, Harold Victor	*Belleville*
Burpee, Leah Rowe	*Janesville*
Burwell, Consuelo	*Madison*
Bussey, Frederick Newton	*Chicago, Ill.*
Buswell, Ione Beatrice	*Kendall*
Buswell, Irma	*Kendall*
Butler, Margaret Ellen	*River Forest, Ill.*
Buttweiler, Miriam Thayer	*Indianapolis, Ind.*
Caldwell, James Rolston	*Philadelphia, Pa.*
Cameron, Thomas Lynn	*Oshkosh*
Canada, Maurice	*Elkader, Iowa*
Carberry, Wells Francis	*Milwaukee*
Carl, Norma Barbara	*Green Bay*
Carter, Lorrayne	*Chetek*
Casey, Aileen	*Oconomowoc*
Casserly, Raymond James	*Madison*
Chadbourn, Reuben Cornwell	*Columbus*
Charney, Sidney Clyde	*Milwaukee*
Chapman, Dorothy Dee	*Milwaukee*
Chase, Helen Davidson	*Clinton, Iowa*

Chase, Ruluf Arthur	*Platteville*
Cherry, James Crowel	*Kenilworth, Ill.*
Chipman, Mary Lourretta	*Morrisonville*
Christensen, Norman Gilbert	*Westfield*
Christy, Viva Bell	*Clinton, Iowa*
Church, Carl Adelbert	*Sheridan, Wyo.*
Clague, Coleman Elliott	*Winnetka, Ill.*
Clark, Elizabeth Ann	*Menomonie*
Clark, Loran Simeon	*Plainfield*
Clark, Marion Eugene	*Indianapolis, Ind.*
Clasmann, Cora Marie	*Milwaukee*
Cole, Olive Marian	*Brookings, S. Dak.*
Collins, Catherine	*Chicago, Ill.*
Collins, William Kinney	*Madison*
Collipp, William Fulton	*Portage*
Colman, Julia	*La Crosse*
Comstock, Byron Herbert	*Portage*
Conlee, Carol Evelyn	*Madison*
Conlee, Ruth Isabell	*Madison*
Connor, Richard Malcolm	*Marshfield*
Constance, Fern Elizabeth	*Waupaca, Ill.*
Conway, Margaret Irene	*Colby*
Coon, Gaylord Palmer	*Madison*
Coop, Myrtle Marion s e	*Valley City, N. Dak.*
Copeland, Doris Laurine	*Evansville*
Cordell, Elizabeth Miller	*Madison*
Correll, Ellen Fredericka	*Memphis, Tenn.*
Coulson, William Lee	*Grafton*
Craig, Johnston Guvin	*Kirkwood, Mo.*
Craik, Albert Percy	*Superior*
Crawford, Robert Wood	*Frederic*
Cremer, Dorothy Rita	*Red Wing, Minn.*
Crocker, Walter Claire Jr.	*Spooner*
Cronk, Angie Elizabeth	*Menomonie*
Cunningham, Lawrence Eugene	*Beloit*
Daley, Olive Signorn	*De Forest*
Damon, Kenneth Finch	*Spokane, Wash.*
Dannemann, Frienche Mary s e	*Amber, Iowa*
Davenport, Jarvis Daniel	*Sturgeon Bay*
Davis, James Bon Durant	*Marinette*
Day, Eula Elizabeth s e	*E. Cleveland, Ohio*
Dela Hunt, Jane Allcott	*Milwaukee*
DeLaney, Anna	*Highland*
DeLaney, Oscar Minton	*Whorton, N. J.*
Dellinger, John Grant	*Madison*
Dexter, Edwina s e	*Madison*
Dickinson, Helen Rozilla	*Edgerton*
Dickover, Ruth Beatrice	*Hammond, Ind.*
Dippel, Alma Lydia	*North Freedom*
Dixon, Dorothy	*North Vernon, Ind.*
Dixon, Esther Margaret	*Elroy*
Doan, Miriam	*Duluth, Minn.*
Dodd, John Morris	*Ashland*

Doerr, Dorothy Anne	*Mt. Vernon, Ind.*
Donaghey, James B.	*Madison*
Donnellan, Arthur Norman	*Eau Claire*
Donovan, Margaret	*Madison*
Double, Helen	*Los Angeles, Cal.*
Drake, Frances E. s e	*Mason City, Iowa*
Dubois, Elizabeth Mary	*Washington, D. C.*
Duckett, Margaret Hildreth	*Boston, Mass.*
Dunlop, Fannie Louise	*Madison*
Dwight, Dorothy Marguerite	*Madison*
Dye, William Joseph Paul	*Sisterville, W. Va.*
Dyer, Margaret Ellen	*Madison*
Ebert, Reinhold Otto	*Marion*
Edwards, Irene Louise	*La Crosse*
Edwards, Wilmer Charles	*Marion*
Egstad, Myrtle I s e	*Cameron*
Eisenberg, Louis Abraham	*Milwaukee*
Elliott, Alvah Charles s e	*Muscoda*
Ellis, June Ethyl	*Madison*
Ellison, Frederick John	*Fond du Lac*
Elton, Katherine Ruth	*Port Washington*
Ely, Katherine Gordon s e	*Madison*
Epstein, Hannah Evelyn	*Delavan*
Esch, Hugo Edward	*Manitowoc*
Evans, Martha s e	*Granite City, Ill.*
Ewald, Edith Vivian s e	*Mt. Carmel, Ill.*
Ewell, Agnes Coleman	*Duluth, Minn.*
Ewing, Albert Button	*Louisville, Ky.*
Faletti, Stephen Lawrence	*Spring Valley, Ill.*
Falge, Raymond Louis	*Madison*
Federer, Leo Joseph	*Madison*
Fehland, Harold Roland	*Merrill*
FitzGibbon, Helen Claire	*Madison*
Forsbeck, Filip Carolus	*Milwaukee*
Fosgate, Frank Pilling	*Richland Center*
Foshion, Herbert Victor	*Brussels*
Fox, Matie Dorothy	*Waterloo*
Foxon, Fern Iola s e	*North Hampton, Mass.*
Frederick, Harry Yomen	*Westfield*
Fries, Mary Fredonia	*Richland Center*
Fritsche, Louise Catherine	*New Ulm, Minn.*
Fuller, Albert Morse	*River Falls*
Gail, Edna Jane	*Kenosha*
Gardiner, Edith Marion	*Edgerton*
Gardner, Helen Charlotte	*Huron, S. Dak.*
Gasul, Benjamin Morris	*Kenosha*
Gaterman, Freda Margaret	*Manitowoc*
Gausewitz, Walter Herman	*Milwaukee*
Gault, Harry Clayton	*Lancaster*
Gildehaus, Mildred Alvine	*St. Louis, Mo.*
Gile, Nyria Venice	*Edgerton*
Gleason, Clyde Walter	*Portage*
Gleerup, William Weston	*Madison*

Graves, Helen Bryan	*Viroqua*
Graves, Marian Grace	*Harlan, Iowa*
Green, Margaret Thorp	*Washington, D. C.*
Greenspon, Jennie	*Appleton*
Gregg, Ashton Carter	*Decorah, Iowa*
Gregory, Lawrence William	*Valders*
Grimes, Katherine Helen	*Des Moines, Iowa*
Grimm, Alfred Frederick	*Madison*
Grover, Beth	*Kenosha*
Gruner, Vera Gilda	*St. Louis, Mo.*
Guerini, Esther Teressa	*Middleboro, Mass.*
Guyer, Edwin Michael Cooley	*Madison*
Haffenberg, Helen Ethel	*Chicago, Ill.*
Haigh, Frederic Warren	*Madison*
Hales, Ellen Barbara	*Mineral Point*
Halverson, Ellis Cobb	*Madison*
Hames, Martha Rose	*Madison*
Hammond, Florence Evelyn	*Hammond, Ind.*
Hancock, Hortense Mignone	*Texarkana, Tex.*
Handran, Ethelyn Anna	*Waterford*
Hanlon, Harvey	*Plymouth*
Hanson, Frederick Raymond	*Milwaukee*
Hardy, Horace Frederick	*Chicago, Ill.*
Hargan, James	*Madison, Ind.*
Harman, Hubert Fish	*Sparta*
Harrington, Earl Thomas	*Milwaukee*
Harrison, Ethel Vivian	*Madison*
Hart, Milton Russell	*Boise, Idaho*
Harville, Clifford Henry	*Eau Claire*
Haskins, Gladys Marjorie	*Madison*
Hastings, Minnetta Annie	*Madison*
Haugen, William Emmert	*Hudson*
Haven, Esther Olive	*Hudson*
Hayes, Ramona Sara	*Madison*
Heidner, Frederick Carl	*West Bend*
Henderson, Dolly Geraldine s e	*Hawkeye, Iowa*
Hendricks, Lydia Anne	*Tomah*
Hennel, Norma Lillian	*Cashocton, Ohio*
Herreid, Borghild Theodora	*Madison*
Hess, James Sam	*Mauston*
Heyman, Arthur Jerome	*Kenosha*
Heyman, Morris Adolph	*Grand Rapids, Mich.*
Hiestand, Elizabeth Marion	*Madison*
Hinners, Mildred Jean	*Chicago, Ill.*
Hinzie, Mary Lee	*Two Rivers*
Hipple, Marietta s e	*Madison*
Hirsig, Herron Albert	*Mt. Horeb*
Hirsig, Pearl Theodosia s e	*Mt. Horeb*
Hoag, Harold Brown	*La Grange, Ill.*
Hoard, Annie Laurie	*Ft. Atkinson*
Hodgson, Ruth Lenore	*Evanston, Ill.*
Hogan, Edith Margaret	*Superior*
Holbrook, Joseph Carlton	*Okmulgee, Okla.*

Holzer, Janet Eunice	*Milwaukee*
Hooper, Helen	*Oshkosh*
Hopkins, Joseph Jackson	*Milwaukee*
Hornaday, Josephine	*Danville, Ind.*
Hotton, Alfred Dwight	*River Falls, Ill.*
Howe, Cecelia Anne	*Darlington*
Hudson, Helen	*Norfolk, Nebr.*
Hudson, Robert James	*Madison*
Huegel, Alleen DeGaris	*Madison*
Hugunin, Marjorie Roberta	*Janesville*
Huntley, Alton Karl	*Clyde, Ohio*
Immell, Florence Genevieve	*Blair*
Ingwersen, Jennette	*Chicago, Ill.*
Irwin, Gladys Genevieve	*Elroy*
James, Lois Harriet	*Anaconda, Mont.*
Janisch, William Jennings Bryan	*Waterloo*
Jefferson, Sallie Virginia s e	*Sparta*
Jewell, Eleanor Mary s e	*Grand Rapids, Mich.*
Jewell, Matilda Mitchell	*Grand Rapids, Mich.*
John, Lillian	*Milwaukee*
Johnson, Clarence L.	*Eau Claire*
Johnson, Elizabeth Mary s e	*Superior*
Johnson, Ella Alice s e	*Port Arthur, Tex.*
Johnson, Lucille Kathryn	*Houston, Tex.*
Jones, Amaretta Beth	*Sparta*
Jones, Eulalia	*Turtle Creek, Pa.*
Jorgenson, Louise Margaret	*Racine*
Jorndt, Bertha	*Madison*
Kahn, Helen Frances	*Galveston, Tex.*
Kallio, Marie	*Finleyson, Minn.*
Kastler, Donald Montanye	*Racine*
Kastlin, George Jacob	*La Crosse*
Kay, Carolyn Cantine	*Alliance, Ohio*
Keeley, Helen Marie s e	*Mayville*
Kellogg, Horace Banter	*Antigo*
Kemp, Katherine Furman	*New York, N. Y.*
Kenseth, Selvide Gertrude	*Cambridge*
Kieckhefer, Norma Helen	*Milwaukee*
Kiland, Inger Andrea	*Madison*
Kimball, Dean Prichard	*Janesville*
King, Margaret Andrews	*Crawfordsville, Ind.*
Kinne, Helen Susan	*Orofino, Idaho*
Kirk, Helen	*New Castle, Pa.*
Kiser, Elliott Fox	*Eau Claire*
Kjos, Selmer Elias	*Viroqua*
Klosterman, Ema Henrietta	*Shawano*
Knilans, Helen	*Sheboygan*
Knudson, Arthur Hackel	*Brooklyn*
Koelsch, Dorothy	*Boise, Idaho*
Koppke, Ruth Josephine	*Madison*
Kostuck, John Thomas	*Amherst Jct.*
Kraege, Frederick Halsey	*Madison*
Krauskopf, Ruth	*Milwaukee*

Krome, Hannah	*Milwaukee*
Kubley, Louise Florence	*Monroe*
Labudde, Constance Amalia	*Oshkosh*
Laird, Harold Remington	*Madison*
Langerude, Harold Curtis	*Spooner*
Langstadt, Lucille Lena	*Appleton*
Larsen, Myron Wilbur	*Whalen*
Lautenbach, George Robert	*Weyauwega*
Leary, Susan	*Oak Park, Ill.*
LeClercq, Edith	*Paris, Tex.*
Lee, Edward Noble	*Chicago, Ill.*
Lee, Evelyn Lila	*Oak Park, Ill.*
Leliter, Marian Frances	*La Porte, Ind.*
Leonard, Willard Leslie	*Riverside, Ill.*
Letcher, Gwendolyn Muriel	*Madison*
Levitan, Nadia	*Mt. Horeb*
Lewis, Lorna Lucille	*Oshkosh*
Lighty, Harold Kent	*Madison*
Lind, Marjorie Ruth	*Hillsboro*
Lindsten, Esther Merwyne	*Chicago, Ill.*
Linebarger, Charles Elijah	*Chicago, Ill.*
Lingenfelter, John Samuel	*Butte, Mont.*
Lo, Shiu Chung	*Hong Kong, China*
Longstaff, John Walter	*Huron, S. Dak.*
Loomer, Harlin Gilbert	*Madison*
Lowth, Robert John	*Columbus*
Luck, Charles Carlton	*Kansas City, Mo.*
Lund, Alf	*Eau Claire*
Lund, Burton Gaynor	*Racine*
Lund, Edna	*Eau Claire*
Lung, Po Kwan	*Canton, China*
Lyman, Auta Eveline	*Madison*
Lyons, Robert Donlan	*Vermilion, S. Dak.*
MacAnanny, Dorothy Mabel	*Madison*
McCaslin, Margaret Isabel	*East Cleveland, Ohio*
McCulloch, Lynette	*Marshfield*
McDougall, Tyrell Glen	*Britton, S. Dak.*
McDowell, Margaret Esther	*Milwaukee*
McFarland, Gladys Mae	*Fredericksburg, Iowa*
McGary, Lester	*Norwalk*
McNeil, Helen	*Virginia, Minn.*
Madsen, Violet Hansa	*Oregon*
Maher, Beatrice	*Kalamazoo, Mich.*
Mahler, Anita Ida	*Milwaukee*
Mahoney, David John	*Fond du Lac*
Malmin, Esther Alice s e	*Blue Earth, Minn.*
Maltpress, Seymour Lee	*Rockford, Ill.*
Mandelker, Martin	*Milwaukee*
Marden, Nathan Langly	*Oshkosh*
Martineau, John Baptiste	*Oshkosh*
Martini, Margarete Katherine	*Milwaukee*
Marvin, Arthur Donald	*Beaver Dam*
Mather, Doris Harriette	*Ladysmith*

Maxwell, Mary Wilson s e	*Marshalltown, Iowa*
Mead, Liela Todd	*Shell Lake*
Mehre, Frederic William	*Glenbeulah*
Melcher, Louis Chester	*Madison*
Melziva, Edward S.	*Lena*
Meyer, Catherine Marie	*Oak Park, Ill.*
Meyers, Helen Amanda s e	*Evansville*
Michaëlis, Carlina Jane	*Madison*
Miller, Adelaide Henrietta s e	*Madison*
Miller, Eva	*Milwaukee*
Miller, Henry Burtus	*Fond du Lac*
Miller, Maude Mildred	*Markesan*
Miller, Philip	*Madison*
Miller, Vanson Venorian Jr.	*Ladysmith*
Milliren, Russell Edward	*Stockholm*
Moe, Ralph Ray	*Duluth, Minn.*
Moon, John Frank	*Rosendale*
Morris, Charles William, Jr.	*Chicago, Ill.*
Moultrie, Elizabeth Leigh	*Los Angeles, Cal.*
Mountin, William John	*Hartford*
Mulrooney, Elizabeth Mary	*Bloomington*
Munson, Thenora	*Stoughton*
Murphy, Alice Elizabeth s e	*Oklahoma City, Okla.*
Murphy, Donald Bates	*Peoria, Ill.*
Neidig, Vera Hope	*Rockford, Ill.*
Nelson, Dorothea	*Rockford, Ill.*
Nelson, Ethel Fay s e	*Peshtigo*
Neubauer, Harold Raymond	*Baraboo*
Norem, Lawrence Everett	*Milwaukee*
Nusbaum, Juliet Amelia	*Richmond Ind.*
Oberlin, Katherine Gray	*Hammond Ind.*
Ochsner, Stanley Edward	*Prairie du Sac*
Ohlson, Guy Edward	*La Crosse*
O'Hora, Clarence Martin	*Madison*
O'Keefe, Margaret Mary	*Waunakee*
Olson, Mildred Karen	*Madison*
Olson, Valerie Estelle	*Racine*
O'Malley, Charlotte Mary	*Madison*
O'Neil, Philip Edward	*Cloquet, Minn.*
Orschel, Albert Kaufman	*Miles City, Mont.*
Orton, Miriam Ruckwood	*Darlington*
Osborn, Chandler	*Oshkosh*
Osgood, Carroll Wilcox	*Windsor*
O'Shea, Stanley Daniel	*Madison*
Osten, Earle Lester	*Mankato, Minn.*
Owen, Laures Margaret	*Madison*
Owens, Grace	*Lake City, Iowa*
Ozanne, Herbert Kellogg	*Oshkosh*
Palmer, Virginia Rutledge	*DeLand, Fla.*
Paras, Conrado	*Boac, P. I.*
Parker, George Macdonald	*St. Louis, Mo.*
Parker, Marian	*Kalamazoo, Mich.*
Pasch, Lester Adolph	*Milwaukee*

Patchen, Josephine Norris	*Manitowoc*
Pattison, Nancy	*Freeport, Ill.*
Payne, Wilfred Gladstone	*Wauwatosa*
Pearson, Dorothy Louise	*Upper Mont Claire, N. J.*
Peck, Alice Laura	*La Grange, Ill.*
Pedigo, John Paul	*Tampa, Fla.*
Perlman, Henry Bernard	*Madison*
Peterman, Leila Henrietta	*Merrill*
Peterson, Lyndle Wilson	*Shawano*
Peterson, Olive Bernice s e	*Chicago, Ill.*
Peverill, Wilma Etta	*Waterloo, Iowa*
Pfluegner, Dorothy Anita	*Milwaukee*
Phillips, Lyle Graham	*De Pere*
Pickhardt, Edwin Louis s e	*St. Louis, Mo.*
Pinkerton, DeWitt Van	*Neenah*
Pohle, Genevieve A.	*Madison*
Polesky, Fred Alexander	*Milwaukee*
Pope, George Guion	*Evanston, Ill.*
Pope, Margaret Isabel	*Pewaukee*
Porter, Anna Maude	*Evansville*
Porter, Cathrine Alice	*Madison*
Purnell, William Henry	*Kenosha*
Quail, Jarvis Thomas	*Hayward*
Rall, Helen Doris s e	*Toledo, Ohio*
Raymond, Jessie Lauretta	*Madison*
Reid, Ruth Elizabeth	*Hurley*
Reinertsen, Vivian Snary	*Milwaukee*
Reinking, John Juergen	*Madison*
Renue, Dorothy Vernon	*Oak Park, Ill.*
Reynolds, Thomas Arthur	*Madison*
Rivard, Raymond R.	*Madison*
Roach, Mary Virginia s e	*Minneapolis, Minn.*
Roberts, David Tracy	*Wilmette, Ill.*
Roberts, Ethel Lillian	*Madison*
Rockwell, Katherine Edith	*Oshkosh*
Roddy, Rhea Goodson	*Forney, Tex.*
Rogan, Helen Marguerite	*Chicago, Ill.*
Romig, Ruth Evangeline	*Madison*
Rose, Bertha Elizabeth s e	*Rossville, Ind.*
Rosenberry, Katherine	*Madison*
Rounseville, Willis A.	*Winnetka, Ill.*
Royse, Edith Hull	*New York, N. Y.*
Runkel, Violet Marie	*Prairie du Chien*
Rutherford, William Thomas	*Milwaukee*
Rydjord, John	*Lily, S. Dak.*
Sale, William Merritt	*Louisville, Ky.*
Salem, Ellen Augusta	*Portage*
Sammis, Josephine Louise s e	*Madison*
Sattre, Jeanette Marion	*Rice Lake*
Saunders, Benjamin Walker	*Oregon*
Saunders, George Murdoch	*Superior*
Scheinfeld, Aaron	*Milwaukee*
Schenk, Edward William	*Shawano*

Schiffmann, Alvin John	*Chicago, Ill.*
Schleman, Herbert Spencer	*Valparaiso, Ind.*
Schmidt, Dorothea Marguerite	*Freeport, Ill.*
Schmidt, Faye Ellis	*Madison*
Schneider, Charles Samuel	*Beloit*
Schoen, Ludwig Alois	*La Crosse*
Scholten, Adrian Herman	*Valley Springs, S. Dak.*
Schroeder, Florence Marie	*Milwaukee*
Schrumpf, Violet Marie	*Highland, Ill.*
Schuller, Gertrude Marie	*Indianapolis, Ind.*
Schulz, Lydia Martha	*White, S. Dak.*
Schutz, George John Jr.	*Shawano*
Schweiger, Leo Joseph	*Cashton*
Schweizer, Caroline	*La Crosse*
Schwentker, James Milton	*Madison*
Schwinn, Walter Kelly	*Red Oak, Iowa*
Scilley, Deddy Gordan	*Billings, Mont.*
Scofield, Irma Loraine	*Osage, Iowa*
Scott, Ralph Vernon	*Hardin, Mont.*
Scovill, Nellie Preston s e	*Rockford, Ill.*
Sehon, Elizabeth Lewis s e	*Louisville, Ky.*
Sells, Arthur Max	*Florence*
Seymour, Helen Louise	*Reedsburg*
Shaner, Dorothy Romaine	*Philadelphia, Pa.*
Shearer, Eleanor	*Madison*
Sheldon, Eleanor Pray	*Madison*
Sheldon, Leander Frederick	*Tomahawk*
Shockey, Franklin Perry	*Oak Park, Ill.*
Shorney, Gordon Duddridge	*Oak Park, Ill.*
Shurtleff, Helen Elizabeth	*Marengo, Ill.*
Sichler, Margaret Xentha	*Madison*
Siljan, Pearl Marie	*Madison*
Sime, Ruth Christine	*Stoughton*
Simpson, Margaret	*Minneapolis, Minn.*
Sims, Leslie Clinton	*Rice Lake*
Sinaiko, Grace Maxine	*Madison*
Sinaiko, Isabel Jean	*Madison*
Smedal, Erling Arnold	*McFarland*
Smith, Edna Louise	*Madison*
Smith, Helen Agnes	*St. Petersburg, Fla.*
Smith, Mae Laura	*Rockford, Ill.*
Smith, Theodore Jonathan	*Tomah*
Smith, Violet Margaret	*Chicago, Ill.*
Smither, Florine	*Huntsville, Tex.*
Snashall, Hylva Evelyn	*Janesville*
Snell, Mildred Maud	*Plymouth*
Snider, Elizabeth	*Davenport, Iowa*
Solveson, Vera Eleanor	*Oconomowoc*
Sorenson, Roy	*Milwaukee*
Spensley, Alice Lila	*Madison*
Spiker, Irene s e	*Gary, Ind.*
Squire, Lucius Alvin	*Portage*
Staab, Elma Mary	*Wall Lake, Iowa*

Stagg, Arvilla Elynore	*Chicago, Ill.*
Stearns, Dana Preston	*Mason City, Iowa*
Stephenson, Edwin Ambrose	*Muncie, Ind.*
Stewart, Lillian Victoria s e	*Madison*
Stewart, Pearl Esther	*Baltimore, Md.*
Stock, Donald August	*Eau Claire*
Stockdale, Ethel Wegner	*Milwaukee*
Stoddard, Clara Shepard	*Sioux City, Iowa*
Stowell, Esther	*Peoria, Ill.*
Straight, Alma LaVeta	*Tonda, Iowa*
Stroup. Helen Gladys	*Grand Rapids, Mich,*
Stucki, John Calvin	*Black River Falls*
Suhr, Alfred Louis	*Milwaukee*
Sumner, Dorothy Dunning	*Madison*
Swartzbaugh, Edith Blackford	*Toledo, Ohio*
Swetil, Ellen Marion s e	*Milwaukee*
Sygman, Samuel	*Two Rivers*
Von Szeliski, Victor Spartan	*Madison*
Talbot, Harry Elno	*North Loup, Nebr.*
Talley, Eleanor Frances	*Sioux City, Iowa*
Tangney, Homer Francis	*Kilbourn*
Taylor, Harold Westlake	*Indianapolis, Ind.*
Taylor, Susan Lois	*LaFayette, Ind.*
Tennant, Dorothy Drew	*Lake City, Minn.*
Terrell, Frances Ellen	*Indianapolis, Ind.*
Thomas, Charles Archibald Jr.	*La Crosse*
Thomas, Marjorie s e	*Appleton*
Thompson, John X	*Madison*
Thompson, Roy Winfield	*Madison*
Thompson, Stuart Edward	*Neenah*
Tippet, Walter Pierson	*Appleton*
Todd, Marjorie s e	*St. Louis, Mo.*
Toepfer, Raymond August	*Madison*
Togstad, Karl Raymond	*McFarland*
Tomlin, Elgie Viola	*Madison*
Towell, Arthur	*Milwaukee*
Trachte, Clarence Gilbert	*Watertown*
Tracy, Sterling Hill	*Memphis, Tenn.*
Treischmann, Eva Louise	*Milwaukee*
Trestrail, Donald Tasker	*Eau Claire*
Troyan, Ethel Marie s e	*Cleveland, Ohio*
Tucker, Alice Needham	*Berwyn, Ill.*
Turnbull, Margaret Elinor	*Sparland, Ill.*
Van Houten, Richard Walter	*Milwaukee*
Vetten, Cornelius Nicholas	*Sheboygan*
Wagg, Angelyn	*Appleton*
Wall, Arthur Raymond	*Antigo*
Wallescz, Selma	*Milwaukee*
Ware, Dorothy Rhoda	*Portage*
Warner, Elizabeth Dale	*Madison*
Wehe, Blanche Lucile s e	*Lakota, N. Dak.*
Wehle, Alex Francis	*West Bend*
Wehle, Edward William	*West Bend*

Weir, Helen May	*Mt. Pleasant, Iowa*
Weller, Horace Look	*Fond du Lac*
Westendarp, Dorothy Emma s e	*Coldwater, Mich.*
Wheeler, Catherine Eleanor	*Wauwatosa*
White, Burton Henry	*Oconomowoc*
White, Paul Benjamin	*Madison*
White, Sherman	*Chicago, Ill.*
Whitlock, Martha Phelps	*Chicago, Ill.*
Wible, Herbert Lloyd	*Elm Grove*
Wickwire, Katherine Lydia s e	*Rockford, Ill.*
Wiese, Esther Lois	*Kewaunee*
Wildeman, William Jacob	*Madison*
Wiley, Margaret Bennett	*Fond du Lac*
Wiley, Robert Le Roy	*Chippewa Falls*
Willett, Alfred Edwin	*Plainfield, N. J.*
Williams, Bertha Helen	*Madison*
Williams, John McMynn	*Oberlin, Ohio*
Willis, Doris s e	*Washington C. H., Ohio*
Winchell, Ima Charlotte	*Madison*
Winslow, Mary Isabel	*Madison*
Winter, Mabel	*Madison*
Wittkop, Norman Lorenz	*Hartford*
Wood, Vesta Holliday	*Cairo, Ill.*
Woodard, Mary Rea	*Watertown*
Woodhouse, Irving	*Bloomington*
Woolery, Virginia Cleveland	*Pasadena, Cal.*
Wright, Robert Lynds	*Ft. Dodge, Iowa*
Wurth, Walter William s e	*Madison*
Yeh, Yuan Lung	*Chuchow, China*
Zielsky, Frederick Adelbert	*South Shore, S. Dak.*
Zierke, Victor William	*Princeton* —605

Course in Commerce

Adams, Chester Shaff	*Clinton, Iowa*
Albertz, Ella Minna	*Watertown*
Alexander, Marjorie	*Madison*
Allen, Harris Gibbs	*Madison*
Allen, Harry Daphne	*Madison*
Andersen, Victor Sigurd	*Madison*
Anderson, Dwight	*Taylorville, Ill.*
Anderson, Perry George	*Edgerton*
Arnquist, Anna Theodora	*Hudson*
Aylward, Arthur William	*Madison*
Bailey, Donald Moore	*Sioux City, Iowa*
Bailey, Paul Edward	*Menomonie*
Balch, Harold McFarland	*Marshalltown, Iowa*
Bartlelt, George William	*Racine*
Bergman, Alfred Edward	*Eau Claire*
Bergman, Roy Anthony	*Bark River, Mich.*
Bierer, Edward William	*Milwaukee*
Bilansky, Hyman Joe	*Milwaukee*
Binger, Anna Alvina	*Chicago, Ill.*
Birkett, Lloyde William	*Hazel Green*

Blodgett, Clifford Alvaro	*St. Paul, Minn.*
Bloodgood, David Wheeler	*Milwaukee*
Bohri, Waldemar Frederick	*Fountain City*
Bonk, Peter Gregory	*Two Rivers*
Borden, Leighon Charles	*Milwaukee*
Bossard, Beulah Stubley	*Madison*
Bostwick, Charlotte Harriet	*Port Washington*
Brann, Lester William	*Bailey's Harbor*
Brassard, Joseph A.	*Merrill*
Brewer, George Frederick	*Indianapolis, Ind.*
Brodt, Cecil Dewitt	*Rice Lake*
Bronson, Carl Evans	*Spencer, Iowa*
Bruning, Edwin Charles	*Brooklyn, N. Y.*
Buell, Martha Merry	*Madison*
Buettell, Nathan Leonard	*Dubuque, Iowa*
Burgess, Martha Katherine	*Geneva, Ill.*
Burns, Judd Arno	*Stanley*
Burt, Rolland Willard	*Chicago, Ill.*
Caluwaert, Edward Charles	*Madison*
Capek, Charles Ashmore	*Antigo*
Capen, Henry Willis	*Bloomington, Ill.*
Carpenter, Everett Nicholas	*Milwaukee*
Caeser, Carl Frederick	*Boise, Idaho*
Chapleau, Elmer William	*Port Washington*
Charlson, Roy Marion	*Eau Claire*
Christy, Robert Harry	*Eureka, Kan.*
Claflin, Paul Cuddeback	*Milwaukee*
Clarke, Harry Zacke	*Janesville*
Coleman, Joseph Carroll	*Janesville*
Conkling, Gerald Marsh	*Lyons, Kan.*
Conway, Helen Luft	*Grand Rapids*
Cook, Lewis Nelson	*Stevens Point*
Corriveau, Allen Le Tendre	*Port Edwards*
Couture, Cemilda Mary	*Rice Lake*
Coxon, Thomas Turneau	*Madison*
Craig, James McIntyre	*Oconomowoc*
Crane, Eugene Edward	*Chippewa Falls*
Crane, Wilder Willard	*Chippewa Falls*
Crary, H. Rita	*Delavan*
Crowley, Robert John	*Janesville*
Curry, Robert James	*Baraboo*
Curtis, Warren Crandall	*Quincy, Ill.*
Dahl, Lawrence Gustave	*Marinette*
Dally, John Everton	*Milwaukee*
Danielson, Adolph Conrad	*Madison*
Danielson, John Julien	*Rio*
Davis, George Crandall	*Waupun*
Desmond, Humphrey Earl	*Milwaukee*
Dexter, Albert Kendall	*Madison*
Diehl, George Whitney	*Eldora, Iowa*
Dins, Albert Fred	*Colby*
Dodge, Edward Sabin	*Lake Mills*
Dollard, John Adrian	*Fond du Lac*

Drott, Arnold Martin	*Park Falls*
Duncan, Myron George	*Wausau*
Durkes, Luther Lahman	*Franklin Grove, Ill.*
Dysart, Raymond	*Franklin Grove, Ill.*
Eimon, Perry Arthur	*Superior*
Ekern, Elsie Alverne	*Madison*
Ellingson, Eldred Junius	*Milan*
Elwood, Lois	*Lime Springs, Iowa*
Emmons, Lawrence Earle	*Quincy, Ill.*
Englehardt, Carl John	*Milwaukee*
Englehardt, William Frederick	*Milwaukee*
Engler, Melvin Bernhard	*New Glarus*
Falk, Gustav Rudolph	*Spooner*
Falstad, Ralph Leonard	*Eau Claire*
Ferguson, Leander Wood	*Madison*
Fischedick, Paul Julius	*Milwaukee*
Fish, Marion Hesketh	*Milwaukee*
Flinn, William Claude	*Superior*
Frank, George Dewey	*Davenport, Iowa*
Franz, Walter Bernhard	*Milwaukee*
Frogner, Allard W.	*Weyerhauser*
Fuhrmann, Carl Gustave	*Dubuque, Iowa*
Fuller, Keith La Rue	*Hastings, Mich.*
Gahagan, Patrick Marion	*Reedsburg*
Gardner, Claude Dennis	*Platteville*
Garstang, Reginold William	*Indianapolis, Ind.*
Gates, George Bauman	*Racine*
Gaustad, Einar H.	*Eau Claire*
Geary, Gilbert Joseph	*Oshkosh*
Gebhardt, Hertha Anna	*Juneau*
Gilbert, Henry Wilbur Jr.	*Duluth, Minn.*
Gillk, Covington Calhoun	*Grand Rapids, Mich.*
Goldberg, Mark	*Madison*
Gray, Frank Winchester	*Whitewater*
Gray, June Nellie	*Delavan*
Green, Thomas Henry	*Ligonier, Ind.*
Griem, Lester Victor	*New Holstein*
Griffin, Thomas William	*Rockford, Ill.*
Groth, Harold Henry	*Manitowoc*
Grueneisen, Jesse Raymond	*Madison*
Gruenheck, Esther Josephine	*Fond du Lac*
Hadgraft, Ray Phelps	*La Crosse*
Hamelrath, Dorothy Grace	*Merrill*
Hammetter, Walter Henry	*Milwaukee*
Hammill, Beatrice Martha	*Beloit*
Hance, Lyle Stanley	*Pasedena, Cal.*
Harrington, Delos James	*Elkhorn*
Harris, John Radell	*Mauston*
Hartzell, Thomas Lee	*Edgerton*
Hausmann, Millie Louise	*Madison*
Heim, Laura Elizabeth	*Madison*
Hein, Martin Nicholas	*Madison*
Hendra, Christopher	*Mineral Point*

Heicke, William Arthur	*Milwaukee*
Hickey, Rollin Martin	*Reedsburg*
Hildreth, Barbara	*Washington, D. C.*
Hine, Frederick Otis	*Highland Park, Ill.*
Hoffman, Ralph Max	*Madison*
Holcomb, Charles Edward	*La Crosse*
Homstad, Erwin Edgar	*Black River Falls*
Hopkins, Myron Ball	*Milwaukee*
Hovland, Frank Carl	*Bloomer*
Huszagh, Lyman Peyton	*Chicago, Ill.*
Irish, Josephine	*Quincy, Ill.*
Jackson, Edward Charles	*Aberdeen, S. Dak.*
Jackson, Julian Ernest	*Cedar Rapids, Iowa*
Jackson, Virginia	*Ft. Wayne, Ind.*
Jamieson, Ray William	*Shullsburg*
Jandorf, Carl Edwin	*Grand Rapids, Mich.*
Jansen, Leonard Joseph	*Kaukauna*
Johnson, Edward Wallace	*Hancock*
Johnson, Jesse Johannes	*Wautoma*
Johnson, Leonard Marion	*Orfordville*
Johnson, William Charles	*Waupaca*
Johnson, Winifred Edwin	*Madison*
Jones, Arthur Nichols	*Shullsburg*
Jones, David Roswell	*Spring Green*
Jones, Marion Wynne	*Evansville*
Jones, Wesley Warren	*Madison*
Jordan, Stanislaus Stephen	*Antigo*
Jost, Mae Holzer	*Baldwin*
Jung, Otto Alfred	*Sheboygan*
Keller, Oswald Lewin	*Madison*
Kessler, Alfred Ferdinand	*Watertown*
Kiekhofer, Margaret Adelia	*Milwaukee*
King, Wesley Brundidge	*Greeley, Colo.*
Kinnan, Arthur Houston	*Madison*
Kinnear, Kenneth Maxwell	*La Crosse*
Klein, Wayne Carter	*Madison*
Kneevers, Earl Edwin	*Sheboygan*
Knowles, Clay Gerald	*Mondovi*
Koehler, William John	*Milwaukee*
Koltes, Raymond John	*Dane*
Krohn, Victor Eugene	*Black River Falls*
Kruse, Orwin Henry	*Middleton*
Laemle, Bert	*Marshfield*
Lane, Robert Ellsworth	*Janesville*
Larson, Ralph Elliott	*Madison*
Lawson, Philip Carl	*Clinton*
Lehan, Daniel Joseph	*Gunnison, Colo.*
Lewis, Helmar Ariel	*Macfarland*
Lewis, Robert Crego	*Milwaukee*
Libby, Elzie Burton	*Evansville*
Lichtfeldt, Pearl Amalia	*Milwaukee*
Lindstrom, Ruth	*Viroqua*
Loeb, Ralph Ellis	*Milwaukee*

Loflin, Margaret Katherine	*Kenosha*
Lorig, Arthur Nicholas	*S. Milwaukee*
Lucas, Mary Jane	*Huntington, Ind.*
Luhmann, Robert Adolph	*Madison*
McConnell, Ansley Bryon	*Darlington*
McDonald, Robert Edmund	*Milwaukee*
McFarland, Evelyn Volmer	*Cairo, Ill.*
MacGregor, William Grant	*Westfield*
McKay, Neil Scott	*Huron, S. Dak.*
McKenzie, Basil Francis	*Turtle Lake*
McKone, Earl John	*Green Bay*
McLaren, Walter Fred	*Flandreau, S. Dak.*
McLean, Elizabeth	*Binghamton, N. Y.*
Maedje, Hildegarde Louise	*East Cleveland, Ohio*
Mainland, William Bruce	*Oshkosh*
Martin, Horace Perry	*Mineral Point*
Martin, William Dunham Jr.	*Kenosha*
Mathews, Murray Cornelius	*Ashland*
Matthies, Martin Fred	*Two Rivers*
Mautz, Bernhard Meyer	*Madison*
Maytum, Thelma E.	*Alexandria, S. Dak.*
Melcher, Melvin William	*Horicon*
Merkel, Leo Joseph	*Appleton*
Merrick, Dale McKeen	*Eldora, Iowa*
Meyer, Frank Paul	*Oshkosh*
Miller, Earl W.	*Hopkins, Mo.*
Miller, Casper Julius	*La Crosse*
Miller, Omar Peter	*Manitowoc*
Mills, Dudley John	*Black River Falls*
Montgomery, William England	*Beloit*
Morrissey, Katherine Mary	*Madison*
Nash, Richard Michael	*Madison*
Nelson, Gordon Edward	*Superior*
Newell, Ralph Kenneth	*Eau Claire*
Newton, George Storms	*Superior*
Niederaur, Frank L.	*Bryan, Ohio*
Noble, Henry Harnden	*Madison*
North, John Kenyon	*Houston, Tex.*
Nye, Neiel	*Salem, S. Dak.*
O'Brien, Louis Joseph	*Danville, Ill.*
Ogilvie, Leslie John	*Verona*
O'Hanlon, Gerald John	*Milwaukee*
O'Laughlin, Francis Daniel	*Madison*
Olsen, Maurice	*Milwaukee*
O'Neil, Margaret Adelaide	*Madison*
Ormond, Roy Bazanquith	*Brookfield*
Paddock, Forrest Glenn	*Ashton, Ill.*
Parr, Lester William	*Madison*
Pearson, Ralph Jenkins	*Madison*
Peebles, William Smith Jr.	*Lawrenceville, Va.*
Peters, Donald Edward	*Waterloo*
Peterson, James Daniel	*La Crosse*
Prokop, Joseph John	*Eau Claire*

Puchner, Ralph Edward	*Edgar*
Putnam, Grace Mildred	*Madison*
Quam, Jerry Herman	*Stoughton*
Quinn, Veronica Rose	*Madison*
Ralph, James	*Antigo*
Ralph, James Stanley	*Cuba City*
Recker, Max Rogers	*Indianapolis, Ind.*
Richards, Glen Ellsworth	*Madison*
Richardson, Carolyn Margaret	*Delavan*
Richardson, Lewis Gerhard	*Sioux Falls, S. Dak.*
Richter, Henry Wingfield	*Milwaukee*
Ritzenthaler, Otto Martin	*Baraboo*
Rothschild, Joseph Donald	*Greeley, Colo.*
Russell, Charles William	*Flandreau, S. Dak.*
Ryan, Mildred Elizabeth	*Madison*
Sample, Harold Scrogin	*Janesville*
Sanders, Edward Willard	*Detroit, Mich.*
Sawyer, Merrill	*Menomonee, Mich.*
Schneider, Arthur Henry	*Chippewa Falls*
Scholl, Maynard Michael	*Fond du Lac*
Schomisch, Norman Nicholas	*Appleton*
Schroeder, Henry Frederick	*Milwaukee*
Schujahn, Alvin David	*Fond du Lac*
Schultz, Isabelle Mary	*Pewaukee*
Schwartz, Myron Edward	*Two Rivers*
Scott, Donald James	*Davenport, Iowa*
Selvage, Harold Taylor	*Indianapolis, Ind.*
Severance, Deane Carlisle	*Milwaukee*
Shafrin, Irvin Mink	*Milwaukee*
Shaidnagle, Helen Frances	*Milwaukee*
Sherry, Ruben Henry	*Viroqua*
Siegman, Orra Leslie	*Whitewater*
Silverness, Joseph	*Mondovi*
Simpson, Noel	*Oshkosh*
Sinaiko, Isaac	*Madison*
Slothower, David Wendell	*Platteville*
Smith, Douglas Freeman	*River Falls*
Spies, Gerald Augustus	*Menominee, Mich.*
Stadler, Edward Henry	*Two Rivers*
Stavrum, Thomas Lowell	*La Crosse*
Stevens, George Oliver	*Chicago, Ill.*
Stocker, Alfred Elmont	*Western Springs, Ill.*
Stolley, George Brockway	*Milwaukee*
Stuebing, Albert Carl	*Sioux Falls, S. Dak.*
Stuhler, Riess George	*Monticello, Iowa*
Sundt, Guiserd Merrill	*Stoughton*
Sweet, Ben	*Madison*
Swendson, Norman Lester	*Amherst*
Sylvester, Walter Herbert	*Wauwatosa*
Tamms, Henry Nicholas	*Milwaukee*
Taylor, Eugene MacDonald	*Logansport, Ind.*
Taylor, Warren Oliver	*Ashland*
Ten Eyck, Paul Bryan	*Brodhead*

Thauer, Richard Clarence	*Watertown*	
Thomas, Devernon Arthur	*Rice Lake*	
Thomas, Margaret Augusta	*Wauwatosa*	
Thompson, Earl Joseph	*Madison*	
Thompson, Truman	*Taylor*	
Thomson, Lyall Everett	*Richland Center*	
Thwaits, Edmond Harrison	*Milwaukee*	
Thwing, Elizabeth	*Maumee, Ohio*	
Torbet, James Allen	*Devils Lake, N. Dak.*	
Tornell, Ward Gerald	*Pilot Mound, Iowa*	
Trumpf, Forrest Wayne	*Madison*	
Tuttle, Karl Rogers	*Spencer, Iowa*	
Umbreit, George Mackenzie	*Milwaukee*	
Van Sant, Franklin Arthur	*Deerfield*	
Vanatta, Leona Icaphine	*Reynolds, Ill.*	
Voight, Arnold Robert	*Waupun*	
Voorhis, Charlotte Calvin	*Yonkers, N. Y.*	
Vose, Lyman Rea	*McComb, Ill.*	
Walker, Shores Adelbert	*Duluth, Minn.*	
Warner, Lawrence Potter	*Beloit*	
Warren, John Hyland	*Tomah*	
Watson, Julie Courtenay	*Duluth, Minn.*	
Westerfeld, Hattie Frone	*Madison*	
Wiegand, Henry Burkert	*Racine*	
Wickenden, Gertrude Worth	*St. Louis, Mo.*	
Wiemer, Martin Arthur	*Independence*	
Wilcox, Russell Arthur	*Horicon*	
Wilkins, Alice Rostetter	*Ft. Wayne, Ind.*	
Wolberg, Harvey Theodore	*Iola*	
Wright, Paul Arthur	*Milwaukee*	
Yerly, Wilfrid Leroy	*La Crosse*	
Zimmerman, Harry Francis	*Neillsville*	
Zimmermann, Rudolph Charles	*Carrollville*	—318

Course in Chemistry

Ayres, Marion Eloise	*Oak Park, Ill.*	
Blish, Zirian Aldrich	*Fond du Lac*	
Braun, Mervyn	*Milwaukee*	
Briggs, Roberta Jennie	*Chicago, Ill.*	
Brown, Florence Janet	*Neenah*	
Draize, John Henry	*Brussel*	
Drobka, Frank Joseph	*Manitowoc*	
DuBois, Horace Albert	*Neenah*	
Ehrman, Wilhelmine	*Oak Park, Ill.*	
Fawkes, Charles Elliott	*Dubuque, Iowa*	
Finley, Jennie Preston	*Williamsburg, Ky.*	
Getschman, Walter Edward	*Kenosha*	
Gettle, Rollin Brown	*Madison*	
Griem, Walter Bert	*New Holstein*	
Hanajima, Schinicha	*Mishima, Japan*	
Hrubesky, Clarence Earl	*Menasha*	
Kirkhuff, John Lawrence	*Nickerson, Kans.*	
Koepke, Herbert Albert	*Milwaukee*	

Lemcke, Carl Julius	*Merrill*	
Ludden, Alfred Dexter	*Mineral Point*	
MacQueen, William Blair	*Oconto*	
Mansfield, Harriet Louise	*Okauchee*	
Meulemans, August Martin	*West Wrightstown*	
Palmer, Genevieve Arlysle	*Columbus*	
Pickering, Elizabeth	*Madison*	
Raridon, Helen Bernice	*Morrison, Ill.*	
Robinson, Warren Jethno	*Granton*	
Rowland, Katherine Griffith	*Madison*	
Sawyer, Frances Marie	*S. Milwaukee*	
Sneider, Elmer Frank	*Sheboygan*	
Sommers, Eva Margaret	*Madison*	
Spangenberg, George Robert	*Racine*	
Spence, Ralph Beckett	*La Crosse*	
Tiedman, Leonard Paul	*Madison*	
Trantin, Rudolph	*Madison*	—35

Course in Journalism

Ahern, Dorothy Frances	*Fond du Lac*	
Anderson, Ruth Julia	*Chicago, Ill.*	
Baker, John Gower	*St. Croix Falls*	
Bartels, Raymond Osborne	*Milwaukee*	
Bassman, Herbert John	*Milwaukee*	
Bauder, Donald Clinton	*Geneva, Ill.*	
Cape, Mary Josephine	*Madison*	
Coerper, Henry John Jr.	*Indianapolis, Ind.*	
Daniels, Walter Edgar	*Oak Park, Ill.*	
Desmond, Robert William	*Milwaukee*	
Dickson, Mary Myrtle	*Freeport, Ill.*	
Dunn, Darrell Dewey	*Elroy*	
Ferguson, Katherine L.	*Lake Geneva*	
Garstang, Gladys Eloise	*Madison*	
George, Lloyd	*Geneva, Ill.*	
Gerlach, Mildred	*Chicago, Ill.*	
Halling, Erich Martin	*Milwaukee*	
Hamilton, John Stuart	*Westfield*	
Hanson, Genevieve Florence	*Fond du Lac*	
Jacobson, Kenneth Hopkins	*Curtiss*	
Kaufman, Abraham	*New York, N. Y.*	
Knight, Jocelyn Winthrop	*Racine*	
Koltes, Florence Josephine	*Waunakee*	
Kruse, Elmer Deling	*Madison*	
Lyford, Harry Burgh	*Rock Island, Ill.*	
Lyman, Carson Fitch	*Madison*	
McBride, Dorotha Jean	*Bedrock, Colo.*	
MacBride, La Mont Leslie	*Granton*	
MacGinnis, Charles Pattison	*Pittsburgh, Pa.*	
McLean, Mary Wilson	*Menomonie*	
Nusbaum, Mildred Alice	*Richmond, Ind.*	
Peterman, Ivan Hugh	*Cecil*	
Pulver, Hazel Marie	*Merrillan*	
Rowland, David Hand	*Racine*	

Saunders, Clare Casler	*Madison*	
Schultz, Catherine Elizabeth	*Oak Park, Ill.*	
Schulz, Marguerite Lucille	*Madison*	
Shunk, Elton Nels	*Menomonee Falls*	
Strassburger, Marion Brunette	*Oshkosh*	
Walker, Margaret Ruth	*Almond*	
Worthington, Edith	*Washington C. H., Ohio*	
Zander, Lucile Trossen	*Brillion*	—42

General Course

Gale, Julia Lovette	*Oak Park, Ill.*	
Gombar, Francis Sutherland	*Brodhead*	
Kenny, Leslie William	*Platteville*	
Loveland, Eleanor	*Poynette*	—4

Freshmen

Aase, Anna Pauline	*Mondovi*
Abaly, Donald Charles	*Madison*
Abele, Eugene Eaton	*Madison*
Adelt, Gertrude Elenore	*Kenosha*
Aebly, Edward Herman	*Glenwood City*
Ahern, Mary Ellen	*Madison*
Allen, Thomas C.	*Menomonie*
Alschuler, Jacob Edward	*Aurora, Ill.*
Anderberg, Pearl Amy	*Colton, S. Dak.*
Anderson, Dorothy Vesta	*Milwaukee*
Anderson, Marion Phyliss s e	*Lowell, Mich.*
Anderson, Ottilia	*Madison*
Anding, Henry Moore	*Burlington, Iowa*
Ansfeld, Arnold Joseph	*Milwaukee*
Arnold, Leslie William	*Sparta*
Arnold, Lottie Lucille	*Madison*
Arnold, Lyman Kent	*Ingram*
Arnold, Suel Orr	*Ingram*
Ashton, Sidney Cornell	*Wichita, Kan.*
Austin, Edward Clinton	*Milwaukee*
Austin, Grace Geraldine	*Madison*
Austin, Marion L.	*Milwaukee*
Axley, Ralph Emerson	*Seymour*
Babb, John Albert	*Wakonda, S. Dak.*
Bachhuber, Alphons Eugene	*Mayville*
Bacon, Dorothy York	*Salt Lake City, Utah*
Bacon, Francis Philpott	*Madison*
Badenoch, Helen Isabel	*Evanston, Ill.*
Badger, Dorothy May	*St. Louis, Mo.*
Baer, Susie A.	*Baraboo*
Bailey, Jennie Lucille	*Orion, Ill.*
Baird, Louise Ewart	*Louisville, Ky.*
Baker, Rowe George	*Tomahawk*
Baldwin, Mary Cameron	*La Crosse*
Baldwin, Oliver William	*Mountain*
Baldwin, Orrel Tennant	*Evansville*

Baldwin, William Earl	*Gillett*
Baldwin, William Starr	*Lena, Ill.*
Ballantyne, Dorothy	*Bloomington*
Baratz, Joseph Jacob	*Madison*
Barber, Marion Childs	*Donaldson*
Barlow, Alice	*Janesville*
Barlow, Jessie Gertrude	*Milwaukee*
Barry, Catherine	*Cedar Rapids, Iowa*
Barry, Evelyn Mary	*Oconomowoc*
Basenach, George Henry	*Cashton*
Bates, Angeline Nixon	*Indianapolis, Ind.*
Bauchap, Eunice Amelia	*Madison*
Baumgartner, Hester	*Fennimore*
Baxter, Olive	*Tulsa, Okla.*
Beffel, John Marshall Jr.	*Milwaukee*
Bekins, Paul	*Omaha, Nebr.*
Bell, Douglas Bolton	*Tomah*
Bell, Helen Kinsley	*Franklin, Pa.*
Bellows, Esther Katharine	*Wilmette, Ill.*
Bennett, Doris Louise	*Madison*
Bennett, Ruby Iona	*Fennimore*
Bergh, Olga M.	*Soldiers Grove*
Bergin, Constance Helen s e	*Green Bay*
Berkwich, Helen Marian	*Milwaukee*
Berryman, Romayne May s e	*Elkhart, Ind.*
Bersing, Otis Silas	*Blair*
Bieberstein, Adolph Joseph	*Phillips*
Bird, Geneva Anne s e	*Madison*
Birnbaum, Frank Albert	*La Crosse*
Bitting, Robert Williams	*Milwaukee*
Bjornson, Marion L. s e	*La Moure, N. Dak.*
Blackford, Marea Miller	*Findlay, Ohio*
Blair, Marjorie	*Webster Groves, Mo.*
Blair, Marion Shattuck	*St. Louis, Mo.*
Blake, Henry Warren	*S. Madison*
Blanchard, Marie	*Evanston, Ill.*
Blossom, John Dickson	*Peoria, Ill.*
Blount, Eleanor Nash	*Western Springs, Ill.*
Blumer, Bertha Jacob John	*Milwaukee*
Boerner, Gladys Marie	*Milwaukee*
Boesch, Marjorie May	*Burlington, Iowa*
Boll, Margaret E.	*Rice Lake*
Bond, Russell Conwell	*Wheeling, W. Va.*
Bonslett, Bernice Ullainee	*West McHenry, Ill.*
Borchers, Bartell Benjamin	*La Valle*
Borges, Dagny Olivia Magdalene s e	*Madison*
Boruszak, Frances Rose	*Janesville*
Bowles, Mira	*Indianapolis, Ind.*
Brabant, Clara Elizabeth	*Madison*
Breitenbach, Noemi Emily	*Madison*
Brennan, Mary Florence Romelle	*Madison*
Breslauer, Nathan Pereles	*Milwaukee*
Brew, Gladys Caroline	*Milwaukee*

Bridenhagen, Lester Francis	*Sturgeon Bay*
Brink, Mildred Helen	*Grand Rapids, Mich.*
Brinkerhoff, David Emillius	*Neenah*
Brooks, Warren Charles	*Shawano*
Brown, Ethel Helen s e	*Milwaukee*
Brown, Harold Benton	*Harlan, Iowa*
Brown, Margaret Julia	*New Castle, Ind.*
Brown, Pattye Sykes	*Spearfish, S. Dak.*
Brown, Robert Whitcomb	*Highland*
Brundage, Lyla Ruth	*Geneva, Ill.*
Brunson, Frances	*Los Angeles, Cal.*
Bryan, Richard	*Chicago, Ill.*
Bryant, Mildred Leigh	*Milwaukee*
Buchholz, Ethel Idabel	*Green Bay*
Bunge, William Wheeler	*La Crosse*
Burkhardt, Leona Florence	*Burkhardt*
Burnham, Henrietta	*Waupaca*
Burwell, Amelia	*Madison*
Busch, Mildred Helene	*Oshkosh*
Butler, Helen Marguerite	*Madison*
Caine, Nella Francesca	*Leon, Iowa*
Cairns, George Walter	*Madison*
Callahan, Julia Tormey	*Madison*
Capps, Isabel LaVica s e	*New York, N. Y.*
Carlson, Harry Vladimer	*Kenosha*
Carlyle, Vera Thomas	*Madison*
Caronna, Joseph	*Madison*
Carroll, Grace Marguerite	*Madison*
Casserly, Henry Lawrence s e	*Madison*
Cawley, Regina	*Wausau*
Chandler, Marianna	*Madison*
Chase, Eleanor Sawyer	*Oshkosh*
Christoph, Dorothy May	*Norfolk, Nebr.*
Christopherson, Fritz C.	*Grantsburg*
Clare, Dorothy Grace	*Oak Park, Ill.*
Clark, Frances L.	*Oshkosh*
Clayton, Irene Albertine s e	*Milwaukee*
Coddington, June Dorothy	*North Milwaukee*
Cohen, Rose Lois	*Altoona, Iowa*
Collicutt, Earl Hall	*Mineral Point*
Collins, Gertrude Elsie s e	*Rockford, Ill.*
Conley, Paul Bernard	*Darlington*
Connable, Josephine	*Kalamazoo, Mich.*
Connor, Marion Victoria	*Madison*
Cordes, Edna Ann s e	*Sparta*
Correll, Dorothy Anne	*Plainview, Nebr.*
Costigan, Florence Anne	*Madison*
Cotton, Louis William	*Shawano*
Cournoyer, Arline Mae	*Laona*
Cover, Anna Louise	*Johnstown, Pa.*
Coyne, James Howard	*Madison*
Cramer, Stella Mae	*Madison*
Cristman, Ezra Dormer	*Milwaukee*

Culver, Marion Gray	*Eau Claire*
Curley, Robert Edward	*Chicago, Ill.*
Curtis, Helen Florence	*Merrill*
Curtis, Lucile s e	*Milwaukee*
Dahnke, George Henry	*Middleton*
Dake, Harris Willsie	*Mason City, Iowa*
Dalzell, Ramona	*Oak Park, Ill.*
Davenport, Daisy Martin	*Norfolk, Nebr.*
Davies, Anna Gladys	*Madison*
Davis, Dixie	*Oak Park, Ill.*
Davison, Edgar Thomas	*Beaver Dam*
Deicher, Phillip George	*West Bend*
Delaney, Agnes Dorothea	*Madison*
Demarest, Charley Noyes	*Madison*
Diefenthaler, Marjory	*West Salem*
Dietsch, Leland Charles	*Plymouth*
Dishmaker, Melvin Charles	*Luxemburg*
Dixon, Mae	*Dalton*
Doerr, John Edward Jr.	*Mt. Vernon, Ind.*
Dollard, Ellen Vivian	*Fond du Lac*
Dorsey, Margaret	*Keokuk, Iowa*
Douglas, Carlton Egbert	*Milwaukee*
Downing, Marion	*Milwaukee*
Draeb, August Edward	*Sturgeon Bay*
Drake, Emmet Addis	*Mendota*
Drenk, Charles Russell s e	*Elkhart, Ind.*
Driskell, May Nadine s e	*Spearfish, S. Dak.*
Droppers, Alice Louise	*Milwaukee*
Drow, Thelma Mary	*Tomah*
Du Bois, Caroline Elizabeth	*Green Bay*
Dull, Cecil Fay	*Soldiers Grove*
Dunn, Lorraine Ludington	*Madison*
Dusenbery, Cyril Mortimer	*Independence*
Eakin, Allen C.	*Rockford, Ill.*
Eckstein, Frank Patrick	*Boscobel*
Edie, George Laskey	*Madison*
Ehrlich, Kamma Evelyn	*Racine*
Elder, Katharine Cecelia	*Keokuk, Iowa*
Ellingson, O. Frederick	*Edgerton*
Elliott, Helen Martha	*Oak Park, Ill.*
Elser, Frieda Margaret	*Beaver Dam*
Elser, Louise Helen	*Beaver Dam*
Elver, Bernice Jeanette	*Madison*
Ende, Anna	*Sheboygan*
Engelhard, Alfred Benjamin	*Chicago, Ill.*
Erickson, Edgar Louis	*Durand*
Esser, Robert Grant	*Milwaukee*
Estvad, Rigmor Christensen	*Madison*
Etz, Eugene Charles	*Wheeling, W. Va.*
Evans, Thelma Woodruff	*Van Wert, Ohio*
Evenson, Alice Hulda	*Eau Claire*
Fagg, Kenneth Stanley se	*Wilmette, Ill.*
Farwell, Marjorie	*Hubbards Woods, Ill.*

Feeney, Agnes	*Madison*
Fehrer, Florence Louise	*Milwaukee*
Fellows, Frank Samuelson	*Algoma*
Fellows, Susie Nell s e	*Lyons*
Fenelon, Dorothea	*Rhinelander*
Fenn, Alma Jeanette s e	*Prophetstown, Ill.*
Fernberg, Babeth Grace	*Aurora, Ill.*
Ferris, Margaret Evelyn, s e	*Waukesha*
Fiedler, George Adolph	*Holcombe*
Field, Blanche Knippenberg	*Madison*
Files, Grace Caroline	*Forsyth, Mont.*
Finkelstein, Morris	*Milwaukee*
Finley, George William	*Fontana*
Finley, Katheryn Margaret s e	*Madison*
Fitch, Logan Dallas	*Madison*
Fithian, Dorothea Louise	*Knightstown, Ind.*
Fitzgerald, John Bertram	*Fond du Lac*
FitzGibbons, Ida Kathryn	*Monroe*
Flanner, Julia Maude	*Blackwell*
Flarity, Thomas Harold	*Edgerton*
Fleming, Florence Charlotte	*Elkhart, Ind.*
Fleming, John Charles	*Shullsburg*
Florin, Alvin Christian	*Fountain City*
Ford, Stanley Edward	*Madison*
Francois, Emily Genevieve	*Brooklyn*
Frey, Harold Alfred	*Berlin*
Frick, Alice Elizabeth	*Athens*
Friederick, Paul Edmund	*St. Charles, Mo.*
Fritschler, John Curtis	*Sturgeon Bay*
Frye, Margaret Elizabeth	*Elkhart, Ind.*
Frye, Mildred Sarah	*Sparta*
Fuller, Helen Blanche	*Madison*
Fuller, Ruth Helen	*Waterman, Ill.*
Furlong, Thomas Francis Jr.	*Milwaukee*
Gaffney, Margaret Mary	*Madison*
Gage, Leslie Richards	*Peoria, Ill.*
Gangelin, Paul Victor	*Milwaukee*
Ganser, Herbert Aloysius	*Sauk City*
Gardner, William McHard	*Huron, S. Dak.*
Gary, Helen Elizabeth	*Wheaton, Ill.*
Geiger, Ailene Jeanette	*Monroe*
Geller, Helen Henrietta	*Muscoda*
Gertz, Michael Alexander	*Hurley*
Giesen, Allan Francis	*New Richmond*
Gifford, Mary Louise	*Omaha, Nebr.*
Gilbert, Theodore Markley	*Neenah*
Gill, Earl Francis	*Madison*
Gillis, Archie Edward	*Antigo*
Glover, John Emerson	*Hayward*
Gold, Bessie	*Berlin*
Goodenow, Florence Brown	*Berlin, Mich.*
Goodyear, Carol Marston	*Madison*
Gortemoller, Edna Fredricka	*Chicago, Ill.*

Graves, Eleanor Warren s e	*St. Louis, Mo.*
Gray, Mary Caroline	*Chicago, Ill.*
Greco, Charles	*Chicago, Ill.*
Greene, Bernice Henrietta	*Racine*
Gregory, Harwood	*Delavan*
Gregory, Horace Victor	*Milwaukee*
Gregson, Winifred	*Chicago, Ill.*
Groan, Martha Ayleen	*New Albany, Ind.*
Groth, Edna Laura	*Jackson*
Groth, Irene Mary	*Jackson*
Gruhl, Alfred Monroe	*Milwaukee*
Gude, Helen Dorothy	*Davenport, Iowa*
Guenther, Eric Oscar	*Chilton*
Guentzel, Mildred	*Boscobel*
Gulleth, Norma Randolph	*Spokane, Wash.*
Haak, Irma Carol	*Davenport, Iowa*
Hadley, Susan Emma	*Stoughton*
Haley, Mary Louise	*Tulsa, Okla.*
Halverson, George Maynard	*Madison*
Hambley, Mary	*Hurley*
Hammond, Alyce Louise	*Hammond, Ind.*
Hance, Ben McCall	*Niles, Mich.*
Hanley, Catherine	*Madison*
Hanley, Leona Anna	*Madison*
Harley, Gertrude Ruth	*Madison*
Harpel, Elizabeth Stedman	*Chicago, Ill.*
Harris, Esther Jeannette s e	*Cuba*
Harrison, Louisa Helen	*Keokuk, Iowa*
Harrison, Robert Solon	*Madison*
Harsh, William Alexander	*Milwaukee*
Hart, William Eustis	*Cumberland*
Hartmeyer, Margaret Mary	*Madison*
Hartwig, Harold William	*Watertown*
Harvey, Frances Lucile	*Grand Rapids, Mich.*
Harvey, Marian Alberta	*Grand Rapids, Mich.*
Hase, Winifred	*Milwaukee*
Hawley, Grace Gillin	*Elgin, Ill.*
Hay, Lucie Ruby	*Taylorsville, Ill.*
Hayes, Ellen Marie	*Cambridge*
Hays, Lillian Blanche	*Richland Center*
Hazard, Williametta Sylvia	*Sioux Falls, S. Dak.*
Head, Eleanor Bushnell	*Madison*
Heald, Benjamin Franklin	*Sheboygan Falls*
Heassler, Alton Sprecher	*Madison*
Heinlein, Dorothy Alexander	*Bridgeport, Ohio*
Heller, Gertrude Marie	*Milwaukee*
Hempe, Edna Ida	*Milwaukee*
Henderson, Mary Helen	*York, Nebr.*
Henika, Evangeline	*Madison*
Henry, Margaret Grace s e	*Rockford, Ill.*
Henry, Martin Rudolph	*Grand Rapids, Mich.*
Hess, Edith	*Council Bluffs, Iowa*
Heuer, Wilbur James	*Appleton*

Hickcox, Margaret Claire	*Milwaukee*
Hiken, Charles	*Milwaukee*
Hildebrand, Gladys Elaine	*Polo, Ill.*
Hill, Miriam Elizabeth	*Chicago, Ill.*
Hinkins, Fred Warner	*Belmont*
Hipke, Malcolm Maynard	*Milwaukee*
Hodge, Margaret Ellazan	*Keokuk, Iowa*
Hodgins, Henry Bayard	*Madison*
Hodney, Sigrid Carlson	*Madison*
Hofacker, Henry August	*Plum City*
Hoffmann, William Ernst	*Medford*
Hoilien, Grace Adelaide	*Aberdeen, S. Dak.*
Holliday, Nathan William	*Oshkosh*
Holt, Lyla Amelia	*Cambridge*
Holton, Beatrice	*Edgerton*
Holzinger, Grace Mae s e	*Lancaster*
Holzman, John Henry	*North Freedom*
Hooper, Alice Mary s e	*Iron Mountain, Mich.*
Horstmeyer, Hazel Ethel	*Madison*
Houseworth, Ruth Ziesel	*Elkhart, Ind.*
Hubbard, Carol Lydia	*Madison*
Hubbard, Warren Sydney	*Shabbona, Ill.*
Hughes, Frances Willard	*Janesville*
Hughes, Jane Mary	*New Richmond*
Hull, Ethel Marguerite	*Madison*
Hullinger, Katherine	*Chicago, Ill.*
Hume, Loren Alexander	*Green Bay*
Hunt, Catherine Elizabeth	*Fargo, N. Dak.*
Hunt, Hale Wendell	*Greenwood*
Huntington, John Cooper	*Luverne, Minn.*
Hupprich, Florence Louise s e	*Madison*
Hutchins, Lilyan Lucille	*Melrose*
Hutchison, Genevieve Phillips	*Mineral Point*
Ingold, Harry Johnson Jr.	*Appleton*
Ingraham, Dora Virginia	*Milwaukee*
Jackson, Merle Emerson	*Madison*
Jacobsen, Clara Lenora	*Madison*
James, Edna	*Rockford, Ill.*
Jensen, Ruth Evelyn	*Stoughton*
Jenson, Viola Lenora	*Blanchardville*
Jessup, Hilda	*Anderson, Ind.*
Jilbert, Edwin Homer	*Rio*
Johnson, Erilla	*Des Moines, Iowa*
Johnson, Ethel Elizabeth	*Sparta*
Johnson, Gertrude Dorothy	*Rockdale*
Johnson, Madeline Lela	*Madison*
Johnson, Mildred Elvera	*Madison*
Johnson, Mildred Marie	*Bangor*
Johnson, Oliver Joseph	*Eau Claire*
Johnson, Russell Morton	*Bellefontaine, Ohio*
Johnson, Ruth Signe	*Madison*
Johnson, Violette Ruth	*Madison*
Johnston, Walter Bailey	*Mineral Point*

Jones, Dorothy Mae	*Bangor*
Jones, Enos Gray	*Sioux Falls, S. Dak.*
Jones, Genevieve Ross	*Madison*
Judd, Lenore	*Aurora, Ill.*
Kaderabek, Erwin Joseph	*Manitowoc*
Kaeppel, Geraldine Dorothy	*Chicago, Ill.*
Kasbeer, Helen Harriett	*Normal, Ill.*
Katowitz, Harry James	*Kenosha*
Katz, Wilber Griffith	*Milwaukee*
Kauffman, Chloe Helen s e	*Princeton, Mo.*
Kautz, Leo Charles	*Moline, Ill.*
Kay, Arthur	*Madison*
Kay, David Theodore	*Chicago, Ill.*
Kehl, Gertrude Maude	*St. Louis, Mo.*
Kellogg, William Daniel	*Keokuk, Iowa*
Kelley, Florence V.	*Wausau*
Kempton, Willett Main	*Madison*
Kennicott, Marjorie B.	*Chicago Heights, Ill.*
Kerwin, Joseph James	*Madison*
Kiessling, Oscar	*Jefferson*
Kimberly, Georgiana	*Chicago, Ill.*
King, Ted Roosevelt	*Starkweather, N. Dak.*
Kinsey, Kersey Wood	*Arcadia, Nebr.*
Kirk, Elizabeth	*New Castle, Pa.*
Kirkhoff, Harris Smith	*Owen*
Kissinger, Howard F.	*Athens*
Klann, Mildred Hazel	*Milwaukee*
Klotz, Dorothy Laura	*Winnetka, Ill.*
Klotz, Elizabeth Marjorie	*Winnetka, Ill.*
Knox, Billie Henrietta s e	*Oklahoma City, Okla.*
Knutesen, Edwin Bassett	*Columbus*
Koch, Clara Odelia	*Prairie du Sac*
Koehler, Emma Helen	*Webster Groves, Mo.*
Kojis, Ferdinand George	*Milwaukee*
Kopriva, Alma	*Madison*
Koschin, Eleanore Alice	*Racine*
Lacey, James Theopholis	*Madison*
Lahmann, Albert Henry	*Milwaukee*
Lainson, Bernice Claire	*Council Bluffs, Iowa*
Lamb, Leslie Francis	*Madison*
Lambeau, Oren Anthony s e	*Marinette*
Lanke, Max Godfrey	*Tomah*
Larrabee, Leonard Curtis	*Nashotah*
Larson, Leon William	*Menomonie*
Latimer, Marjory Bodine	*Portage*
Leadstone, Helen Annette	*Chicago, Ill.*
Lehman, Charles Ellis	*Birmingham, Ala.*
Lemp, Marion	*St. Louis, Mo.*
Lipkowsky, Charles Albert	*Kenosha*
Levens, Margaret Jane	*Nevada, Mo.*
Levin, Ruth	*Waukesha*
Lewis, Dorothy May s e	*Sandwich, Ill.*
Lewis, Hester Jennette	*Pendleton, Ind.*

Ligare, Alice Louise s e	*River Forest, Ill.*
Lindahl, Lucile Janet	*Chicago, Ill.*
Lindley, Lynnette Inabelle	*Appleton*
Lindsay, Mary Gertrude	*Louisville, Ky.*
Lockhart, Margaret Janet	*Milbank, S. Dak.*
Long, Elizabeth Clare s e	*Canton, Ohio*
Long, Wallace Adolph	*Markesan*
Longcor, Willard Herrick	*Belvidere, Ill.*
Loomis, Madeline Vaughn s e	*Milwaukee*
Loveless, Edith Blanche	*Warren, Ohio*
Ludwig, Huber Alphonse	*Berlin*
Luetscher, Ruth Marguerette	*Madison*
Lugoff, Portia B.	*Duluth, Minn.*
Lund, Murville Leslie	*S. Wayne*
Luther, Arleigh James	*Grantsburg*
Lyon, Washburn Stark	*Milwaukee*
McCaffery, Arthur Lawrence	*Madison*
McCaffrey, Maurice H.	*Madison*
McCandless, Lee	*Davenport, Iowa*
McClymont, Jessie Clay	*Milwaukee*
McCormick, Stuart Alexander	*Madison*
McDonald, Helen Marion	*Beaver Dam*
McDougal, Margaret	*Riverside, Ill.*
McElwain, Rilla	*Madison*
McGaughey, Helen Alice	*Lawrenceville, Ill.*
McIntyre, Darrell Donald	*Avoca*
McIver, Florence	*Kimberly*
McKinney, Pansy D.	*Madison*
McKone, Irene Catherine	*Green Bay*
McLandress, Helen Sarah	*Stevens Point*
McLay, Marion Barless	*Janesville*
McMurry, Harry Lee	*Bloomington, Ill.*
McMurry, Howard Johnstone	*Madison*
McReynolds, Cora Seville	*Manitowoc*
McWhorter, Joseph Reger	*Lewisburg, W. Va.*
Mackin, Beda Roberta	*Madison*
Magaurn, Florence Louise	*Green Bay*
Magoon, Isabel	*Lacon, Ill.*
Mahoney, Agnes Ann	*Chicago, Ill.*
Mahoney, Helen Marie	*Downers Grove, Ill.*
Mainland, Esther Florence	*Oshkosh*
Mallari, Ismael	*Manila, P. I.*
Maloney, Eunice Mae	*Ladysmith*
Maloney, Laura Evelyn	*Fond du Lac*
Mansfield, Dorothy Louise	*Central City, Nebr.*
Marks, Alfred Ernest	*Madison*
Marks, Joseph Henry	*Madison*
Marks, Ruth Elizabeth	*Madison*
Marling, Robert Newcomb	*Madison*
Marsh, Mabel Henrietta s e	*Dickinson, N. Dak.*
Marshall, Elizabeth	*Madison*
Marshall, Marion Madeline	*Rockford, Ill.*
Martin, Hester Lucy	*Michigan City, Ind.*

Martner, Helen Ervine	*Prairie du Chien*
Mathison, Leon Jennings s e	*Madison*
Maxcy, Grace Louise	*Washburn*
Mayall, Edith Marie s e	*Clinton, Ill.*
Mayer, Helen Louise	*Chicago, Ill.*
Mead, Edwin	*Grand Rapids*
Merry, Harold Monroe	*Madison*
Meyer, Carleton Wiepking	*Washington, D. C.*
Meyer, Eugene Paul	*Milwaukee*
Meyers, Maybelle Frances	*Belvidere, Ill.*
Meyne, Margaretha Isabella	*Hortonville*
Miller, Bob I.	*Logansport, Ind.*
Miller, Claude Gerald	*Richmond, Ind.*
Miller, Florence Vida	*Milwaukee*
Minch, Helen Marie	*Belleville*
Mitchell, Margaret	*Sioux City, Iowa*
Mitchell, Marion	*Madison*
Mitchell, Marjorie	*Chicago, Ill.*
Mitchell, Robert Bruce Jr.	*Freeport, Ill.*
Moehlenpah, Marion	*Clinton*
Moore, Clara Louise	*St. Cloud, Minn.*
Morehart, Roger Lytle	*Mankato, Minn.*
Morgan, Eleanor Louise s e	*Madison*
Morgan, Frank Bernard	*York, Nebr.*
Morgan, Mildred Agnes	*W. Lafayette, Ind.*
Morris, Ada Josephine	*Rice Lake*
Morris, Edith Nelson	*Madison*
Morris, Melissa De Golyer	*Madison*
Morrison, Constance Martha	*La Fayette, Ind.*
Morrissy, Thomas Andrew	*Delavan*
Morrow, Inez Evelyn	*Hinsdale, Ill.*
Morse, Beatrice Gertrude	*Fond du Lac*
Morse, James Todd	*Gifford, Ill.*
Morse, Wayne Lyman	*Verona*
Morton, Aline s e	*Webster Groves, Mo.*
Morton, Elizabeth Blanche	*Sioux City, Iowa*
Mosel, Marjorie	*Madison*
Mosher, Herman Alexander	*Milwaukee*
Mountin, Veronica Mary	*Hartford*
Moyer, Louise Particia	*Rockford, Ill.*
Muehlberger, Edna Rose s e	*Hammond, Ind.*
Mueller, Rosella Elizabeth	*Madison*
Muench, Marie	*Ben Avon, Pa.*
Mulholland, Agnes	*Manitowoc*
Mullen, Frank John	*Sturgeon Bay*
Muscheid, Margaret Dorothy	*La Crosse*
Nachtigall, Lucinda Elenora	*Marinette*
Nelson, Glenn Dewey	*Argyle*
Nelson, Lillian Margaret	*Chicago, Ill.*
Nelson, Raymond Delbert	*Mt. Horeb*
Nelson, Ruth Eleanor	*Chicago, Ill.*
Nelson, Wayne Ellis	*Sawyer*
Nemeroff, Sylvia Ruth	*Chicago, Ill.*

Nettland, Paul Erasmus	*Kilbourn*
Neufeld, Lucile Marie s e	*Green Bay*
Neupert, Carl Nicholas	*London*
Nichols, Harriet Rew	*Winnetka, Ill.*
Nielsen, Alma Katrina	*Gull Lake, Sask., Can.*
Nimlos, Myrtle Iona	*Madison*
Nimmow, Thekla Mathilda	*Abelman*
Noggle, Ruth	*Kansas City, Mo.*
Nolan, Mary Ellen	*Madison*
Norbeck, Elizabeth Grace	*La Crosse*
Norby, Perry Alfred	*Iola*
Norem, Edwin Benjamin	*Bryant*
Norman, Marian	*Greenville, Ind.*
Nowels, Helen Wasson	*Columbia City, Ind.*
Nuzum, Thomas Ochsner	*Janesville*
Nyeland, Marie Anna s e	*Muscoda*
O'Hora, James Timothy	*Mazomanie*
Olds, Deborah Fay	*Madison*
Olds, William	*Madison*
O'Neil, Daniel Callahan	*Chippewa Falls*
O'Neill, Catherine Elizabeth	*Madison*
Orlady, Nelle Fraser	*Durand*
Osmundsen, Orville Alexander	*Madison*
O'Toole, John Roy	*Shullsburg*
Outhouse, Alice Irene	*Madison*
Ozburn, Marguerite Helen	*Oregon*
Paddack, John Roger	*Wyoming, Ohio*
Page, Arlene Lenora	*Elkhorn*
Page, Ida Millicent	*West Allis*
Park, Allan Lamoreaux	*Stevens Point*
Parker, Harvey Elwin	*Greeley, Colo.*
Parkhill, Edith Muriel	*Rochester, Minn.*
Parkhill, Ruth Willard	*Chicago, Ill.*
Parman, Clayton Louis	*Madison*
Parmley, John Hahnemann	*Mineral Point*
Parsley, Cleo	*Kansas City, Mo.*
Pasley, Joyce Rita	*Oregon*
Patrick, Dorothy Harris	*Chicago, Ill.*
Patterson, Helen Virginia s e	*Appleton*
Paust, Lawrence Rieder	*Whitewater*
Paxton, Grace Eleanor	*Colfax, Ill.*
Peacock, Katharine Elizabeth	*Chicago, Ill.*
Pearson, Gertrude Emery	*Portage*
Peregoy, Inez Lucile	*Council Bluffs, Iowa*
Perkins, Katherine Mary	*Kenosha*
Perstein, Fannie Ruth	*Madison*
Peters, Marie Alice	*La Crosse*
Petersen, Esther Mary	*Ashland*
Piggot, Harvey Brown	*River Forest, Ill.*
Pinkerton, Harold Allen	*Waupaca*
Polasky, Bernice Belle	*Kalamazoo, Mich.*
Posepny, Charlie Joseph	*Two Rivers*
Powell, Adella s e	*Sparta*

Powell, Della June	*Ridgeway*
Powell, Helen Elizabeth	*Milwaukee*
Prehn, Fred C.	*Wausau*
Pribnow, Mildred Hildegarde	*Virginia, Minn.*
Price, Hobart Candee	*Kenosha*
Price, Porter Bernard	*Goshen, Ind.*
Pudrith, Adele Louise	*Detroit, Mich.*
Puestow, Charles Bernard	*Oshkosh*
Purmot, Maxwales	*Delavan*
Quarberg, Russell August	*Mondovi*
Radloff, Arthur Edward	*Austin, Ill.*
Radtke, Clarence William	*Madison*
Ragsdale, Erschel Irene	*Winchester, Tenn.*
Randall, Earl Allen	*Kenosha*
Rathert, Charles Edward	*Chilton*
Rawson, Charles Albert	*Portage*
Reagan, Mary Marcelia	*Knightstown, Ind.*
Redell, Alma Minnie	*Madison*
Reed, Elizabeth Carol s e	*Blue River*
Reed, Helen Edith	*Elkhorn*
Regula, Catherine Anne	*Madison*
Reilly, John Francis	*Fond du Lac*
Rein, Lewis Stewart	*Hurley*
Replinger, Mildred Ruth	*Madison*
Rich, Lydia Ann	*Keokuk, Iowa*
Richards, Inez Jeannette	*Ladysmith*
Richards, John Willis	*Madison*
Richardson, Jane	*La Grange, Ill.*
Richardson, King	*La Grange, Ill.*
Richter, Marion Christine	*Yakima, Wash.*
Richter, Roy Ray	*Twin Lakes*
Rickeman, Louise Eliot	*Galena, Ill.*
Rinder, Elsbeth Violet	*Madison*
Ringwood, Katherine Florenz	*Rush City, Minn.*
Risberg, Earl Livingstone	*Cumberland*
Risser, Frederic Emanuel	*Fountain City*
Robbins, Holden John	*Chicago, Ill.*
Roberts, Blanche Edna	*Union Grove*
Robinson, Gladys Mary	*Morris, Ill.*
Rockwell, Helen Louise s e	*Oshkosh*
Rockwell, Meta Mathilda	*Oshkosh*
Roderick, Dorothy Evelyn	*Madison*
Rodes, Mary Grider	*Bowling Green, Ky.*
Rohrer, Dorothy	*Hammond, Ind.*
Rollins, Bernice	*Kankakee, Ill.*
Romberg, Henry August Anton	*Clintonville*
Rosenberry, Samuel Landfair	*Madison*
Rosenthal, Jeanette Hannah	*La Porte, Ind.*
Ross, Julia Anne	*Richland Center*
Rossiter, Ruth Madeline	*Portage*
Rothenburg, Robert Doehne	*Springfield, Minn.*
Ruff, Marjorie Anne	*Hammond, Ind.*
Ruffalo, Anthony	*Racine*

Rule, Homer Sheldon	*Linden*
Rupp, Viola Barbara	*Chilton*
Rush, Anna May	*Washington, D. C.*
Russell, Roger Bridgford	*Creston, Iowa*
Ryan, Catherine Elizabeth	*Winnipeg, Manitoba, Can.*
Ryan, Sadie Julia	*Prairie du Sac*
Sabin, Samuel Henry	*Academy, S. Dak.*
Sanborn, Katherine Yates	*Madison*
Sanderson, George Webster	*Tripoli*
Sannes, Didrik	*Madison*
Sapper, Herbert David	*Guatemala, C. A.*
Sargis, Samson George	*Madison*
Sarles, John Hallock	*Madison*
Sayles, Winnifred Hicks	*Baraboo*
Sayre, Kenneth James	*Edgerton*
Schenck, Florence Caroline	*Madison*
Schenk, Gustave Paul	*Shawano*
Scherer, George John	*Milwaukee*
Scheu, Katherine Louise	*St. Louis, Mo.*
Scheuer, Lucille Anna	*Mishicot*
Schidlo, Raymond Arthur	*Westfield*
Schiller, Rudolph Francis	*Sun Prairie*
Schlimgen, Esther Julia	*Madison*
Schmidt, Cornelia Marie	*Wausau*
Schmidt, Margaret Jane	*Stanley*
Schmitz, Catherine Henrietta	*Waunakee*
Schmitz, Herbert Eugene Lenzen	*Chicago, Ill.*
Schneiders, Rufus Anton	*Marathon*
Schnell, Fred	*Portage*
Schnell, Joseph Raymond	*Kenosha*
Schnorbach, Elizabeth Phyllis	*Manistee, Mich.*
Schoelkopf, Ruth Anna	*Madison*
Schoenlaub, Mildred Flag Caroline	*Milwaukee*
Schroeder, Annieta Harms	*Milwaukee*
Schulke, Walter Edward	*New Ulm, Minn.*
Schultz, George William	*Wauwatosa*
Schulz, Paul William	*Sheboygan*
Schunk, Arline Marie s e	*Green Bay*
Schwebs, Evelyn Marie	*Madison*
Schwenker, Harry Raphael s e	*Madison*
Scobie, Nellie Mary s e	*Plainfield*
Seamans, Solemnus Day Jr.	*Aurora, Ill.*
Sellers, Minnie Liona	*Pipestone, Minn.*
Sengbusch, Erwin Frederick	*Reedsville*
Severance, Marjorie Reun	*Milwaukee*
Shadbolt, Joy Elizabeth	*Milwaukee*
Shaner, Deborah s e	*Philadelphia, Pa.*
Sharp, Marion Grace	*Chicago, Ill.*
Shaw, Alice Merle s e	*Madison*
Sheahan, Leonard Joseph	*West Allis*
Shear, Mary Beatrice	*Rosslyn, Va.*
Shiao, Lian Po	*Peking, China*
Shipley, Helen Virginia	*La Fayette, Ind.*

Shirey, Leda Hermione	*Muncie, Ind.*
Shoults, Worth Edward	*Alexandria, Va.*
Sichler, Cecilia Agatha	*Alma Center*
Sickert, Norma Clara s e	*Milwaukee*
Siegel, Beatrice Pearl	*Milwaukee*
Simpson, Lucile	*Fort Wayne, Ind.*
Sinaiko, Abraham	*Madison*
Slininger, Leah Marie	*Des Moines, Iowa*
Sloman, Helen Margaret	*Dayton, Ohio*
Smith, Aline Parry	*Milwaukee*
Smith, Dudley William E.	*Madison*
Smith, Eulalia Margaret	*Madison*
Smith, Gordon Edward	*Madison*
Smith, Marjorie June s e	*Beaver Dam*
Smith, Olga Augusta s e	*Marshfield*
Snir, Hazel Rose	*Pittsburgh, Pa.*
Sosalla, Joseph Roy	*Whitehall*
Spence, Lloyd William	*La Crosse*
Sproul, Elizabeth Walden	*Madison*
Stahlman, Stella Naomi	*Madison*
Steele, Leah Emma	*Sparta*
Steele, Wallye Elizabeth	*Milwaukee*
Steidtmann, Waldo Edward	*Sauk City*
Steinberg, Lorraine Mathilda	*Jefferson*
Stephens, Dwight Sheldon	*Cuba City*
Stevens, Myron Ray	*Madison*
Stewart, James Jewell	*Madison*
Stewart, John Carter	*Louisville, Ky.*
Stilwell, Helen Katherine	*Sioux City, Iowa*
Stoffel, Leone Emma	*Racine*
Stolpe, Edith Amanda	*Madison*
Stolte, Florence	*Reedsburg*
Stondall, Helen Beatrice	*Madison*
Stoppenbach, Katherine Emily	*Shawano*
Story, Byron Ferris	*Bozeman, Mont.*
Story, Katherine	*Bozeman, Mont.*
Strong, Elaine Carver	*Oak Park, Ill.*
Sullivan, Eugenie Marie	*Morrison, Ill.*
Sullivan, Samuel John	*Madison*
Swensen, Helen Margaret	*Madison*
Swenson, Lester Cyrus	*Deerfield*
Tannewitz, William Joseph	*Madison*
Tappins, Noble	*Madison*
Tatman, Phyllis Wright s e	*Kirkwood, Mo.*
Tauchen, Arthur s e	*Madison*
Taylor, Alberta May s e	*Sheboygan*
Taylor, Etta	*Washington, D. C.*
Taylor, Mildred Elizabeth	*La Fayette, Ind.*
Teitgen, Blanche	*Manitowoc*
Thayer, Adaline Elizabeth	*Marshalltown, Iowa*
Thomas, Jessica N. s e	*Decatur, Ill.*
Thomas, Nellie Amber	*Lake Mills, Iowa*
Thompson, Alice Minnette	*Abbotsford*

Thompson, George Tranery	*Greenwood*
Thompson, Gertrude Emilie	*Chicago, Ill.*
Thompson, Gladys Eleanor	*Chicago, Ill.*
Thompson, John Reginald	*Madison*
Thompson, Robert Clendenning	*St. Croix Falls*
Thoren, Florence Marie	*Rock Grove, Ill.*
Thorkelson, Mary Elizabeth	*Madison*
Tilton, Esther Grace s e	*Oshkosh*
Tinley, Dorothy Patricia	*Council Bluffs, Iowa*
Toepfer, Margaret Louise	*Madison*
Torgerson, Lucille Elizabeth	*Cottage Grove*
Tormey, Harold Joseph	*Madison*
Tousley, Evelyn Victoria	*Cleveland, Ohio*
Trainor, Stella Elizabeth	*Madison*
Trauba, Norbert Carl	*Marathon*
Trester, Arno William Henry	*Sheboygan*
Trewyn, Bryant Hooper	*Palmyra*
Tuckerman, Gustavus	*St. Louis, Mo*
Tunstall, Kathryn	*Madison*
Turgeson, Fletcher	*Richland Center*
Tuttle, Agnes Neubauer	*Oconto*
Typer, Linn Malon	*Necedah*
Van Gorden, Bela Bert	*Taylor*
Verbrick, Willard	*Appleton*
Voss, Wesley August	*Beloit*
Wagner, Gladys Irene	*Madison*
Walczak, Bruno	*Milwaukee*
Walker, Alfred Edwin	*Hinsdale, Ill.*
Walker, Howard McKinley	*Verona*
Wallace, Gertrude Morgan s e	*Mt. Carmel, Ill.*
Walliser, George Francis	*West Chicago, Ill.*
Waln, Robert Wood	*Davenport, Iowa*
Waltemath, Harry Arthur	*North Platte, Nebr.*
Walters, Thomas Albro	*Stevens Point*
Wang, Teng Yun	*Peking, China*
Wardell, Gladys Georgenia	*Elk Point, S. Dak.*
Washburn, Helen Jane	*Kentland, Ind.*
Weber, Raymond Ambrose	*Fond du Lac*
Weeks, Albert William	*Chilton*
Weeks, Archie Schneider	*Chilton*
Wegemann, Alvin August	*Watertown*
Werth, Grace A.	*Markesan*
Westerfeld, Florence May	*Madison*
Westover, Della Cecil	*Groton, S. Dak.*
Whitcomb, Marion Linn	*Madison*
White, Wallace Beecher	*Burlington*
Whitmeyer, Lillie Ann	*Aurora, Ill.*
Wightman, George Verne	*Milwaukee*
Wilcox, Mary Adaline	*Chicago, Ill.*
Williams, Dorothy Frances s e	*Chicago, Ill.*
Williams, Hugh George	*Racine*
Williams, Leonard Rowland	*Cambria*
Willoughby, Alfred	*Milwaukee*

Willoughby, Goeffrey	*Milwaukee*	
Wimmler, Mildred Frieda	*Cleveland*	
Winter, Carrie Candee	*Madison*	
Wiseman, Helen Grace	*East Brady, Pa.*	
Wiswell, Mary May	*Elkhorn*	
Wolff, Antoinette Heloise s e	*Madison*	
Wolff, Frank Lewis	*Fond du Lac*	
Wright, William	*Sturgeon Bay*	
Wuerpel. Margaret	*St. Louis, Mo.*	
Wyatt, Harriet Elizabeth	*Casper, Wyo.*	
Yabroff, Leah	*Sun Prairie*	
Ylvisaker, Erling	*Zumbrota, Minn.*	
Young, Raymond	*La Moure, N. Dak.*	
Zander, Mercedes Frances	*Two Rivers*	
Zepherin, Violet	*Appleton*	
Ziegelman, Gregor David	*Watertown*	
Zimani, Nichoias	*Kenosha*	
Zimmerman, Edith Julia	*Milwaukee*	
Zimmerman, Richard Batman	*New Albany, Ind.*	
Zimmermann, Ethel Margaret s e	*Burlington*	
Zuehlke, Helen Rose	*Fort Atkinson*	—799

Course in Commerce

Abramofsky, Edward August	*Kenosha*	
Allbee, Frank Wellington	*New Richmond*	
Anderson, Elmer Walter	*Duluth, Minn.*	
Anderson, Louis M.	*Whitewater*	
Anderson, Orvin Henry	*Janesville*	
Anderson, Victor Christian	*Oskhosh*	
Andrews, Ira Randolph	*Hazel Green*	
Andrews, Roy Linus	*Madison*	
Armstrong, Howard William	*Muskegon Heights, Mich.*	
Aronin, Abraham	*Racine*	
Arvidson, Reuben Dewey	*Marinette*	
Aschenbrener, Edmund Lawrence	*Park Falls*	
Augustine, Harry Ferdinand	*Sturgeon Bay*	
Avery, Gilbert Stiles	*Mason City, Iowa*	
Ayen, Elmer	*Mt. Horeb*	
Bailey, Floyd Addison	*Baraboo*	
Bailey, Jennie Dynes	*Elgin, Ill.*	
Bailey, Mary Dynes	*Elgin, Ill.*	
Bakken, Harold Tester	*Madison*	
Bakken, Walter	*Madison*	
Balch, Harry William	*Sparta*	
Bamford, George Joseph	*Plymouth*	
Bardeen, Frank Adelman, Jr.	*Milwaukee*	
Barnaby, Howard Prather	*Greencastle, Ind.*	
Bates, Wilfred Bartlett, Jr.	*Madison*	
Beatty, John Townsend	*Highland Park, Ill.*	
Beatty, William Gibbs	*Birmingham, Ala.*	
Becker, Edwin Anthony	*West Bend*	
Beckman, Fred Herman	*Hammond, Ind.*	
Beeken, Fred Rudolph	*Madison*	

Bellows, Charles, Jr.	*Maryville, Mo.*
Beltz, Samuel Stewart	*Pasadena, Cal.*
Benedict, Marion Elias	*Neillsville*
Berger, Eva Shirley	*Chicago, Ill.*
Bergfors, Alta Eureka	*Madison*
Bernatz, Carl	*Decorah, Iowa*
Bidney, Arthur Eugene	*Independence*
Bills, Harry Edward	*Milwaukee*
Birdlebaugh, Everett	*Winona, Minn.*
Blair, Cameron Alexander	*Plainfield*
Blakeman, Robert Irvine	*Indianapolis, Ind.*
Blum, Albert Edward	*Monticello*
Boerner, Frederick William	*Port Washington*
Boese, Martha Marie	*Ripon*
Boggs, Don Guy	*Wichita, Kans.*
Bogue, Lawrence Cecil	*Fond du Lac*
Bollenbeck, Roman William	*Madison*
Bongey, Alfred R.	*Madison*
Bork, Herbert Arnold	*Milwaukee*
Borntraeger, William Victor	*Louisville, Ky.*
Borowick, Jacob Stanislaus	*Thorpe*
Bort, Lyman	*Hopkinton, Iowa*
Boyden, Sidney Millard	*Chippewa Falls*
Boylan, Arthur Huntington	*Menomonie*
Brabec, Edward Clarence	*Three Forks, Mont.*
Branch, Philip Christopher	*Prentice*
Brand, Walter John	*Sheboygan*
Brann, August Franklin	*Bailey's Harbor*
Bredesen, Philip Gunerius	*Beloit*
Breitwish, Jack Alfred	*Milwaukee*
Bresler, Lillian Galbriella	*Milwaukee*
Breyer, Donald Percy	*Waupun*
Brill, Lawrence Arthur	*Milwaukee*
Brown, Carroll Campbell	*Milwaukee*
Brown, Lloyd Joseph	*Madison*
Bruns, Henry Ernest	*Madison*
Bruske, Herbert Edward	*South Milwaukee*
Buckley, Benjamin Franklin	*Lexington, Ky.*
Buettner, Gilbert John	*Kewaunee*
Bull, Clayton Bosford	*Madison*
Burgess, Emory Chandler	*Valley City, N. Dak.*
Burgett, Donald Wilfred	*Orr, S. Dak.*
Burney, Robert Levi	*Huron, S. Dak.*
Burtt, William Rollo	*Huron, S. Dak.*
Butcher, James Marshall	*La Farge*
Buxton, Salem Leland	*Spooner*
Camp, Isabell Janet	*Stoughton*
Cantwell, Arthur Allen	*Shawano*
Cardinal, Fred Deane	*Ladysmith*
Carlson, Lars Mathias De Wet	*Duluth, Minn.*
Carroll, Charles Kinzie	*Sauk City*
Carroll, John Robert	*Monticello*
Chandler, Caryl Loreen	*Madison*

Chapple, Joe Mitchell	*Ashland*
Chase, Lucius Peter	*Madison*
Cheli, Peter Victor	*Calumet, Mich.*
Christianson, Arthur William	*Cambridge*
Christianson, Herbert Otto	*Cambridge*
Clark, Lyle Judson	*Westfield*
Clawson, Paul Gerlach	*Minocqua*
Clayton, Harold	*Winona, Minn.*
Cohen, Leo	*Park Falls*
Collinge, Francis Vernon	*Hartford*
Conine, William Hinman	*Nowata, Okla.*
Conlin, John Vincent William	*Madison*
Conlin, Lucille Kathryn	*Madison*
Cooper, George Olds	*Evanston, Ill.*
Cornelius, John Church	*Madison*
Costello, Lorenz	*Eau Claire*
Cox, Vincent Arron	*Rockford, Ill.*
Cramer, Lawrence William	*Milwaukee*
Cross, Wilson McGinnis	*Geneva, Ind.*
Cruzen, Randolph	*Paxton, Ill.*
Cumming, Hinton	*Milwaukee*
Curnutt, Roland Theodore	*Maryville, Mo.*
Cutler, Roy	*Dodgeville*
Cutler, Victor H.	*Osage, Iowa*
Daley, Alvin Edward	*Mt. Horeb*
Dallwig, Edgar Gustav	*Milwaukee*
Daugherty, Harland	*Streator, Ill.*
Daum, Roy William	*Huron, S. Dak.*
Davies, May Aileen	*Madison*
Davies, Roland John	*Dodgeville*
Davies, Thomas Homer	*Madison*
Davis, William McKinley	*Barneveld*
Decker, Alfred Dennis	*Chilton*
Degler, Louis Frederick	*Superior*
Delaney, Clarence Ambrose	*Madison*
Delzell, Maurice Carleton	*Denver, Colo.*
Denlinger, Harold Adelbert	*Dayton, Ohio*
Dennis, Jean Bunting	*Sioux Falls, S. Dak.*
Devine, John Herbert	*Edgerton*
Devine, Katheryn Jane	*Madison*
Dick, Adolph Anthony	*Middleton*
Dixon, Bradford Church	*La Crosse*
Dizon, Stanley	*Madison*
Doehler, Edward John	*Kewaunee*
Donaghey, Ivan Paul	*Madison*
Dorsey, George Allen	*Kenosha*
Dorward, William Gould	*Milwaukee*
Douglas, Archie Robert	*Waukesha*
Douglas, Arthur W.	*Sparta*
Doyle, Leslie Lawrence	*Brooklyn*
Drought, Ralph James	*Milwaukee*
Eckerle, Gilbert Louis	*Corona, S. Dak.*
Eckstein, Samuel Henry	*Milwaukee*

Eddy, Caroline V.	*Cuba*
Edelman, William Henry, Jr.	*Sheridan, Wyo.*
Edison, Ora Belle	*Sun Prairie*
Edwards, Robert Louis	*Chicago, Ill.*
Edwards, Vivian Lynn	*Momence, Ill.*
Egan, Veronica	*Highland*
Ellis, Richard Winfield	*Chicago, Ill.*
Ely, Robert Gilman	*Chicago, Ill.*
Erdman, Wilten Edison	*Horicon*
Evenson, Charles Robert	*Baraboo*
Evenson, Louis Orlando	*Antigo*
Fargo, Normand Albert	*Kaukauna*
Fauerbach, Karl Haertel	*Madison*
Fechtner, Elmer Julius	*Merrill*
Fehlhaber, Orville Walter	*Wausau*
Feldman, Samuel	*Sheboygan*
Felix, Katherine	*Prairie du Sac*
Felker, Richard Henry	*Peshtigo*
Ferguson, John James	*Spring Green*
Fess, Georgia Lauretta	*Madison*
Fetzer, John Clark	*Hinsdale, Ill.*
Fidler, Elmer Frederick	*Sturgeon Bay*
Field, William Alexander, Jr.	*Chicago, Ill.*
Finnegan, Harry Merville	*Marion, Iowa*
Flinn, Edith Mildred	*Baraboo*
Fontaine, Berwyn	*Green Bay*
Fotre, Vincent Valentine	*Mineral Point*
Frawley, Edward Joseph	*Eau Claire*
Frawley, James Russell	*St. Croix Falls*
Freelove, Arthur Franke	*Kennebec, S. Dak.*
Freytag, Arthur Morwalt	*Chicago, Ill.*
Fridlund, Le Roy Courtney	*Chicago, Ill.*
Fuchs, Kurt	*Janesville*
Galby, Manford Casper	*Chetek*
Gallagher, Donald Francis	*Portage*
Galloway, Beverly S.	*Washington, D. C.*
Gardner, George Eddy	*Fargo, N. Dak.*
Gauntlett, Ward Jackson	*Chicago, Ill.*
Gearhart, Ruth Evelyn	*Pierre, S. Dak.*
Geier, Benno George	*Plymouth*
Gerhauser, Frank Eugene	*Madison*
Gesteland, Elmer Raymond	*Janesville*
Gibbon, Alexander Myron	*Sparta*
Gibbon, Hannah Mabel	*Madison*
Gibler, Ralph John	*Huntington, Ind.*
Gibson, Dwight Lawrence	*Madison*
Gibson, Richard Ford	*Grand Rapids*
Giles, Claude Raymond	*Madison*
Gilkison, Helen Mae	*Pierre, S. Dak.*
Gill, Chester Leo	*Madison*
Gill, Ralph Gregory	*Madison*
Glossbrenner, Alfred Stroup	*Indianapolis, Ind.*
Goedeke, Phyllis March	*Washburn*

Goessling, Alfred Charles	*Milwaukee*
Goodrich, Franklin Earl	*Lone Rock*
Grashorn, Robert Edgar	*Sheboygan*
Gray, Eugene Lawrence	*Madison*
Grayston, Alfred Kendrick	*Huntington, Ind.*
Greenbaum, Arnold Jr.	*Grand Rapids, Mich.*
Greenlow, Arthur Algernon	*Superior*
Greenman, George Rogers	*Milton Junction*
Greenwood, Frederick Charles	*Lake Mills*
Greer, Henry Lyman	*Evanston, Ill.*
Greiling, Reuben Henry	*Green Bay*
Greiling, Sidney Myron	*Green Bay*
Greisen, Stanton Willard	*Sturgeon Bay*
Grimes, Earl Russell	*Lancaster*
Grubb, Margaret	*Stanley*
Gulson, James Arthur	*Black Earth*
Gunderson, Lea	*Oconomowoc*
Habberstad, Herbert Abner	*Lanesboro, Minn.*
Halsor, Martin Elmer	*De Forest*
Halversen, Norman Mortimer	*Blair*
Hamann, Edwin John	*Johnson Creek*
Hansen, Abner	*Edgerton*
Hanson, Rolfe Hjelmar	*Madison*
Hanson, Sumner Paul	*Eau Claire*
Hanson, Wilbur Sylvester	*Howard, S. Dak.*
Harker, Lola Mary	*Mt. Horeb*
Harland, Robert John	*Marshall*
Harper, Bert Charles	*Peshtigo*
Harrington, Veronica Mary	*Madison*
Harris, Sumner Joseph	*Sturgeon Bay*
Harvey, Robert Wayne	*Oconto*
Hasek, Edwin Alvan	*Cedar Rapids, Iowa*
Hassler, John Edward	*Hillsboro*
Hathaway, George Leonard	*Chicago, Ill.*
Hawks, Charles Jr.	*Horicon*
Hawks, Ralph Eli	*Horicon*
Hayes, Charlton Harry	*Westfield*
Hayes, Margaret Romona	*Madison*
Hayes, Richard	*Cambridge*
Hazen, George Brewster	*Peoria, Ill.*
Head, Donald Seaver	*Madison*
Headley, Richard Mayfield	*Chicago, Ill.*
Heath, Harold John	*Madison*
Heeren, Roy Jelle	*Monroe*
Hefty, Henry Leon	*Monroe*
Heintz, William Douglas	*Rice Lake*
Hendrikson, Sheldon Oliver	*Virginia, Minn.*
Herried, Thomas Nelson	*Madison*
Henschen, Walter Ernst	*Kenosha*
Hill, Leslie Alexander	*St. Croix Falls*
Hobbins, William Suhr	*Madison*
Hoffman, George Zenas	*Dubuque, Iowa*
Hoffman, Herman Miller Jacoby	*Terre Haute, Ind.*

Hoffman, Leslie John	*Madison*
Hollenbeck, Emma Josephine	*Watertown*
Hollensteiner, Elmer Simon	*Milwaukee*
Holman, Luther Leslie	*Madison*
Holmes, Harold Harvey	*Pocatello, Idaho*
Holmes, Herbert Leonard	*Madison*
Homewood, Roy Francis	*Madison*
Hood, George Kenneth	*Spring Green*
Hook, Joseph Porter	*Oak Park, Ill.*
Hopkins, Milo	*Brooklyn*
House, William Henry	*Louisville, Ky.*
Hubbard, Bruce Watson	*Evansville*
Hughes, Reuben Martin	*Dodgeville*
Hull, John Franklin	*Poughkeepsie, N. Y.*
Huseby, Gordon Arnold	*Madison*
Hutchison, Hamilton	*Mineral Point*
Hyatt, Frank Byron	*Sheboygan Falls*
Ingwersen, Carl Henry	*Chicago, Ill.*
Irons, Raymond	*Algoma, Iowa*
Iversen, Elsie Marie	*New Holstein*
Jacobus, Delwin Charles	*Wauwatosa*
Jaklon, Proehl Haller	*Louisville, Ky.*
Janssen, Victor Ernst	*Mayville*
Jax, Clarence Gerald	*Johnson Creek*
Jensen, Alfred Harold	*Beloit*
Johnson, Frederic Benjamin	*Camp Douglas*
Johonnott, Robert John	*Monroe*
Jones, Willard Perry	*Black River Falls*
Jordan, John Alois	*Antigo*
Jungers, Victor Francis	*Grafton*
Kaems, Milton Albert	*Sheboygan*
Kalley, Sylvester George	*Racine*
Karel, Karl Francis	*Kewaunee*
Karel, Louis Albert	*Kewaunee*
Katz, Meyer Ralph	*New Glarus*
Kaufman, Otto Frederick Jr.	*Sheboygan*
Kelhofer, Alma	*Sharon*
Keller, Agnes Marie	*Appleton*
Kelley, Julius	*Rapid City, S. Dak.*
Kenfield, Kenneth Ellsworth	*Bemidji, Minn.*
Kennedy, James Marvin	*Louisville, Ky.*
Kidder, Walter Stanley	*Madison*
Killam, Maude Marie	*Milwaukee*
Kilpatrick, Robert A.	*Belmont*
King, Carroll Paul	*Chilton*
King, Lucille Pearl	*Watertown*
Kinney, Harry Elmer	*Spooner*
Kirchner, Willard Florin	*Fountain City*
Kirmse, Otto Julius	*Marinette*
Kirmse, Walter August	*Marinette*
Kirwin, Philip Francis	*Madison*
Klass, William Henrich	*Oconto*
Klien, Herbert Washington	*West Bend*

Kletzien, Elmer Abraham	*New Holstein*
Klumb, George A.	*Wiggins, Miss.*
Knights, Ida Belle	*East Aurora, Ill.*
Knowles, Harold Fredrick	*Hillsboro*
Koch, Lawrence Gerald	*Appleton*
Koehler, Ellinor Margaret	*Milwaukee*
Koehler, Walter William	*Chilton*
Kolberg, Everett Erick	*Phoenix, Ariz.*
Kolicek, Marie Marcella	*Mishicot*
Koltes, Elmer Francis	*Madison*
Koons, Frank Myron	*Baraboo*
Koskinan, Earl Clinton	*Fond du Lac*
Koss, Earl Lewis	*Jefferson*
Kroehnke, Earl George	*Chilton*
Krom, Isadore	*Withee*
Kroncke, Arnold Edward	*Sun Prairie*
Kuehne, Otto Franz	*Kaukauna*
Kuester, Hugo Leslie	*Shawano*
Kyle, Charles Cuscaden	*Menomonie*
Lang, Francis Clark	*Mason City, Iowa*
Lang, Sidney James	*Madison*
La Rouche, Joseph Francis	*Egg Harbor*
Larsen, Earl George	*Oak Park, Ill.*
Larson, William Harold	*Milwaukee*
Latchford, Ellis Voy	*Madison*
Laub, Barbara Adelheit	*Madison*
Laun, Arthur Henry	*Elkhart Lake*
Lauson, Fred John	*New Holstein*
Lenzer, Gladys Virginia	*Madison*
Lerdahl, Albert Sanford	*De Forest*
Lewis, Percy Frederick	*Milwaukee*
Leyse, Riley Albert	*Kewaunee*
Libby, George Albert	*Indianapolis, Ind.*
Licking, Ralph Herbert	*Milwaukee*
Lillich, John Edward	*Columbia City, Ind.*
Lilly, George Butler	*La Crescent, Minn.*
Lindahl, George Edward	*Chicago, Ill.*
Linke, Blaine	*Beloit*
Lins, Angeline Genevieve	*Spring Green*
Lloyd, Lelia Hermina	*Toledo, Ohio*
Lochner, Herman	*Madison*
Loftus, Gerald William	*Dodgeville*
Lomnes, Orvil Edward	*Hudson*
Long, Dorothy Helen	*Madison*
Lovell, Glenn Ayres	*Muscoda*
Lovell, Malcolm Harold	*Muscoda*
Lunney, Julien Mandelert	*Chippewa Falls*
Lurie, Lee Gershon	*Green Bay*
Lynaugh, Sabina Mary	*Madison*
Lynts, George Edward	*Edgerton*
McBride, Peter Dominic	*Milwaukee*
McCarthy, Thomas John	*Mellen*
McColgan, Clifford Thomas	*Grand Forks, N. Dak.*

McDermott, George Francis	*New Richmond*
McDonald, Julian Fairman	*Aurora, Ill.*
McDonald, Thomas Roy	*Lancaster*
McFarlane, Joan	*Delavan*
McKee, Robert Lamont	*Pittsburgh, Pa.*
McPhillips, Alice Elizabeth	*Darlington*
McQuade, Morton Gilbert	*Duluth, Minn.*
Mackie, Ethal Katheryn	*Green Bay*
Madden, William James	*Sawyer*
Maher, William Raymond	*Madison*
Mahoney, J. Ellsworth	*Madison*
Maier, Karl Adolph	*Milwaukee*
Mallin, Max Weinstein	*Milwaukee*
Manion, James Emmett	*Fond du Lac*
Marcks, Elgie Chester	*Black Creek*
Marquette, Arthur Frederick	*Indianapolis, Ind.*
Marsh, Clarence Edward	*Waunakee*
Marshall, Jack Teter	*Eureka, Kans.*
Martin, Harold William	*Mason City, Iowa*
Martineau, Thomas Jennings	*Oconto*
Matson, Ross Benjamin	*Huron, S. Dak.*
Mattson, Marjorie Annette	*Stoughton*
Mears, Claude Axtell	*Pepin*
Melham, Arnold Gerard	*Watertown, S. Dak.*
Melham, Thomas Walter	*Watertown, S. Dak.*
Melzer, John Frederick	*Erie, Pa.*
Meservey, Arthur Russell	*Minot, N. Dak.*
Messelt, Marie T.	*Black River Falls*
Metcalf, James Lloyd	*Benton*
Meyer, Adeline Josephine	*Madison*
Meyer, Leah	*Barron*
Meyer, Sheldon Eugene	*Madison*
Meyers, Gladys Anna	*Madison*
Mickelson, Paul Roosevelt	*Mankato, Minn.*
Miles, Stephen James	*Madison*
Miller, Alexander Donald	*Verona*
Miller, Arthur Richard	*Beloit*
Miller, Clarence R.	*Middleton*
Miller, W. Gene	*Marion, Iowa*
Milliken, James Trent	*Normal, Ill.*
Minshall, Cyrus Bertrand	*Viroqua*
Moe, Harley Benjamin	*Stoughton*
Moebs, Helen Elizabeth	*Detroit, Mich.*
Moeller, Frithjof	*Iola*
Mohr, Glen Harold	*Antigo*
Mokrejs, John	*Cedar Rapids, Iowa*
Moll, John Lester	*Madison*
Monfried, M. Bernard	*Madison*
Moses, Doris Maud	*Delavan*
*Muentner, Harold Benjamin	*Oakfield*
Murdoch, George Donald	*Wilmette, Ill.*

*Died February 6, 1920.

Murdoch, Harell Alexander	*Chicago, Ill.*
Murphy, Stephen Joseph Jr.	*Escanaba, Mich.*
Murray, Geraldine	*Chicago, Ill.*
Murrills, James Chamley	*Portage*
Murry, Donald Franklin	*Mt. Auburn, Ill.*
Naber, Alfred Ferdinand	*Mayville*
Nappe, Edgar Herman	*Elkhorn*
Nash, Casper Marshall	*Madison*
Nelsen, Harold Norman	*Prentice*
Nelson, Chester William	*Racine*
Neville, Marjorie Elizabeth	*Port Huron, Mich.*
Newcomb, Don Carlos Jr.	*Waupun*
Newell, Douglas Kinney Jr.	*Kenosha*
Nichols, Lee Brownell	*Milwaukee*
Noble, Dave Gerdon	*Omaha, Nebr.*
Noffz, William Edward	*Oconto*
North, Luther Edward	*Shell Lake*
Nortridge, Harold Lee	*Freeport, Ill.*
Oakey, William Alfred	*Madison*
O'Brien, Ray	*Eau Claire*
Okerstrom, Paul John	*Port Wing*
Olson, Elvina Cecelia	*Tripoli*
Olson, Lloyd	*Madison*
Opitz, Harold Ferdinand	*Elkhorn*
Opsal, Forest Henry	*Mt. Horeb*
O'Rourk, Joseph Glen	*Reedsville*
Oswald, Harry Adolph	*Wausau*
Oyen, Harold Stanley	*La Crosse*
Oyen, Hjalmer Selmar	*Stoughton*
Pearson, Miles Curtis	*Fredonia, Kan.*
Peck, Florence Gertrude	*Spring Green*
Perkins, Anson Walker	*Kenosha*
Petersen, Frederic Dayton	*Pewaukee*
Peterson, Ephraim Lucius	*Stockholm*
Petterson, Walter Hastropp	*Ephraim*
Pettigrew, Wilbur Johnson	*Oconto*
Pfeffer, Cyril	*Chilton*
Pfeiffer, Albert Herman	*Madison*
Plunkett, Raymond James	*Rhinelander*
Post, Clarence Arthur	*Milwaukee*
Powell, Harbesan Hickman	*Duluth, Minn.*
Pratt, Percy Lawrence	*Madison*
Preston, Herbert Wallace	*Bloomingburg, Ohio*
Pritchard, Benjamin Jay	*Madison*
Proctor, Ralph Alfred	*Portland, N. Dak.*
Pryor, William Howard	*West Allis*
Puckett, Walter C.	*Rock Rapids, Iowa*
Purves, Kenneth Russell	*Milwaukee*
Quick, Robert Orlance	*Montfort*
Quigg, James Robert	*Richmond, Ind.*
Rack, George	*Milwaukee*
Ransom, Eunice	*Fennimore*
Rasmussen, Howard Raymond	*Madison*

Redfield, Thomas Alphonse	*Rhinelander*
Reeke, Irving Alfred	*Green Bay*
Reese, William Joshua	*Spring Green*
Reichert, Stephen Barnheardt	*Duluth, Minn.*
Remo, Douglas Earl	*Rhinelander*
Rendall, Willard James	*Des Moines, Iowa*
Repp, Carl Willard	*Huntington, Ind.*
Resnick, Leo	*Milwaukee*
Reyer, Harold Benedict	*Colby*
Reynolds, Karl Storrs	*Sturgeon Bay*
Reynolds, Robert Leonard	*Milwaukee*
Rhenstrom, Eric Vernon	*Kenosha*
Rice, Irving James	*St. Paul, Minn.*
Riggert, Edwin William	*Reedsburg*
Riley, Charles	*Madison*
Riley, John Morris	*Madison*
Roberts, Gaige Samuel	*Madison*
Robertson, Duncan Leonard	*Whitewater*
Robison, Burke Hinsdale	*Indianapolis, Ind.*
Roesch, Florence Ursula	*Arcadia*
Rohde, Bruno John	*Milwaukee*
Roick, Virgil Henry	*Baraboo*
Roman, Perry Byron	*Viroqua*
Romson, Clarence Cornelius	*Green Bay*
Rood, James Leslie	*Sun Prairie*
Rosenberg, Beatrice Lillian	*Milwaukee*
Rosenheimer, Elmo Lehman	*Kewaskum*
Ross, Stuart Woodworth	*Chicago, Ill.*
Rossmeissl, Carl Albert	*Appleton*
Rowley, Gordon Chipman	*Madison*
Roy, Hubert	*Tulsa, Okla.*
Ruediger, George Paul	*Fountain City*
Rugee, Charles Morse	*Nashotah*
Ruhl, Graham Alfred	*Des Moines, Iowa*
Ruprecht, Russell William	*Chicago, Ill.*
Russell, Francis	*Westfield*
Russell, Louis Alfred	*Endeavor*
Ruvel, Nathaniel	*Huron, S. Dak.*
Ryan, Raymond John	*Chicago, Ill.*
Sachs, Theodore	*Madison*
Sams, Lawrence Lynn	*Clarion, Iowa*
Saunders, Douglas Howes	*Chicago, Ill.*
Schafer, Stanley	*Sheboygan*
Schaub, Elizabeth Dorothea	*Madison*
Schee, John Huston	*Des Moines, Iowa*
Scheinpflug, Ralph Kenneth	*Boscobel*
Schenkenberg, Lester Forest	*Waterford*
Schildhauer, Fred Jacob	*New Holstein*
Schlosser, Helen Elizabeth	*Milwaukee*
Schmedeman, Albert George Jr.	*Madison*
Schneider, Myrtle Dorothy	*Madison*
Schubring, Irene Marie	*Madison*
Schuknecht, Clarence John	*Port Washington*

Schwartz, Harry	*Waukegan, Ill.*
Schwartz, Sam	*Madison*
Scott, Hillis Albert	*Mifflin*
Scott, Norman Denton	*Sioux Falls, S. Dak.*
Seeber, George Kennedy	*Waterloo*
Segerson, Maurice Harold	*Madison*
Senneff, John A. Jr.	*Mason City, Iowa*
Sexton, Joseph Cantwell	*Madison*
Shafrin, John Mink	*Milwaukee*
Shapiro, Herman	*Madison*
Shaughnessy, Rodney James	*Madison*
Shellhammer, John Wesley	*Blackwell*
Shure, Joseph Nathaniel	*Oak Park, Ill.*
Simley, Isaac Theodore	*Amery*
Sinaiko, Joseph Jack	*Madison*
Sinnen, Peter Christopher	*Racine*
Sisson, Curtis Francis	*Milwaukee*
Slagg, Lowell Silverwood	*Edgerton*
Slagg, Stanley Wilmer	*Edgerton*
Smart, Langley Edward	*Milwaukee*
Smith, Halsey Weir	*Marshalltown, Iowa*
Smith, Harold Clinton	*Madison*
Smith, James William	*Madison*
Smith, Milo Ervin	*Huron, S. Dak.*
Smith, Rudd Waldo	*New London*
Snider, Elmer Newton	*Madison*
Sniffen, Allan Burr	*Greenville, S. Car.*
Sonday, Frederic John	*Sparta*
Sorensen, Alfred Christian	*Luck*
Southwell, Gilbert Lee	*Milwaukee*
Sperl, Norman Michael	*Plymouth*
Sprecher, George Edward	*Madison*
Stahlkopf, Elmer Carl	*Horicon*
Stanley, Flora Louise	*Baraboo*
Stanley, Frederich James	*Baraboo*
Stark, Dean Nicholas	*Clarion, Iowa*
Steel, Harold	*Superior*
Steiger, Emil Leander	*Madison*
Stetson, Kenneth Harold	*Lake Mills*
Stibbe, Austin Julius	*Peshtigo*
Stoltz, Gerald Hugo	*Milwaukee*
Stondall, Ralph Mandt	*Madison*
Strathman, Stuart Henry	*Lake Park, Iowa*
Strong, Fabian Wilbur	*Milwaukee*
Sunderland, Paul	*Kansas City, Mo.*
Swain, Viola	*Indianapolis, Ind.*
Sweetser, Donald Parker	*Poughkeepsie, N. Y.*
Swenholt, Caspar	*Madison*
Swift, George B.	*Chicago, Ill.*
Symons, Robert Russell	*Dodgeville*
*Tack, Theodore	*Spencer*

*Died February 5, 1920

Taggart, Horace Rollins	*Madison*
Taylor, Margaret Marie	*Madison*
Taylor, Raymond Cortes	*Barron*
Taylor, Rodolphus Benedict	*Huron, S. Dak.*
Tebell, Gustav Kenneth	*Plymouth*
Teetor, Lothair	*Hagerstown, Ind.*
Teweles, Sol Eugene	*Sturgeon Bay*
Thompson, Francis Henry	*Edgerton*
Thompson, Julius William	*Wabasha, Minn.*
Thompson, Russell Lewis	*La Crosse*
Thomson, Gordon Stuart	*Duluth, Minn.*
Thorpe, John Elmer	*Darien*
Tibbett, William Richard	*Chippewa Falls*
Tolles, Earl Paul	*Evansville*
Trainor, Philip Charles	*Madison*
Trainor, Roy Daniel	*Madison*
Tredwell, Thomas Alanson	*New York, N. Y.*
Trost, Arthur William George	*Milwaukee*
Turnei, Gilbert Charles	*Johnson Creek*
Turner, James Lyman	*Red Oak, Iowa*
Usher, William Robert	*Rhinelander*
Utgaard, Sigurd Byron	*Deer Park*
Van Edig, Vincent Bernard	*Middleton*
Van Laanen, Francis John Jr.	*Green Bay*
Venard, Vincent Carl	*Kirkwood, Mo.*
Vlach, Albert Wattawa	*Kewaunee*
Vollendorf, Harvey Howard	*Manitowoc*
Vornholt, Theodore Christian	*Madison*
Wadmond, Ruth Elizabeth	*Delavan*
Wagner, Paul George	*Sparta*
Wallace, Francis E.	*Richland Center*
Walien, Silas Francke	*Taylor*
Walther, Herman Oscar	*Madison*
Ward, Gilbert Emanuel	*Fond du Lac*
Webb, William James	*Shullsburg*
Weeks, George Edward	*Davenport, Iowa*
Weeman, King Henry	*Shawano*
Weiler, Carroll	*Madison*
Weitermann, Earl Carl	*Sturgeon Bay*
Wells, Ralph Arthur	*Madison*
Wendt, Carl David	*Berlin*
Wenzel, William Herman	*Medford*
Wepking, Esther Marguerite	*Lancaster*
Werle, Jake Adam	*Wausau*
Wheeler, Horace Phillips	*Beloit*
Wheeler, Jefferson Gregg	*Wauwatosa*
Wheeler, Morgan	*Menasha*
White, Ben Cable	*La Crosse*
Wileman, Ralph	*Edgerton*
Wilkinson, Walter John	*Spring Green*
Willett, Howard Kline	*Plainfield, N. J.*
Williams, K. Germain	*Fond du Lac*
Willigrod, George Edward	*Marshalltown, Iowa*

Wills, James Harold	*Cuba City*	
Wilson, George Alvin	*Warren, Ill.*	
Wing, Charles Rufus	*Kewaunee*	
Wolcott, Herbert LuVerne	*Chetek*	
Woll, Jack Cornelius	*Beloit*	
Yaudes, Lloyd John	*Peshtigo*	
Zimmerman, Arthur Antonius	*Grand Rapids*	
Zischke, Walter Carl	*Horicon*	—617

Course in Chemistry

Aagesen, Nicholas Schuyler	*Milwaukee*	
Andrews, Arthur Clinton	*Bloomer*	
Bear, Armond William	*Milwaukee*	
Downie, Raymond	*Madison*	
Fertig, Esther Marie	*Louisville, Ky.*	
Fitchett, Edmund McDonald	*Janesville*	
Gerhard, Jacob Williams	*Fond du Lac*	
Gimmler, Elsa Henrietta	*Milwaukee*	
Haack, Reuben Carl	*Sheboygan*	
Harwood Arthur Albert	*Cassville*	
Hewitt, Harold George	*Milwaukee*	
Higley, Henry Parker	*Dubuque, Iowa*	
Jack, James Arthur	*Madison*	
McHugh, Clifford Joseph	*Chilton*	
Medeiros, Joaquim da Rocha	*Bahia, Brazil*	
Morsbach, Edward Augustus	*Durand*	
Nickel, Walter John	*Sheboygan*	
Rasmussen, Holger Wurtz	*Racine*	
Rowley, Margaret Leone	*Madison*	
Royce, Harvey Day	*Fort Atkinson*	
Schaefer, Joseph Charles	*Chilton*	
Veit, Herman Frederick	*Milwaukee*	
Ward, James Edward	*Elkhorn*	
Young, Ward Donovan	*New Butler*	—24

Course in Journalism

Alleman, Harold Eugene	*Warsaw, Ind.*
Annenberg, Esther Janet	*Milwaukee*
Arey, Miriam Gordon	*Oak Park, Ill.*
Baker, Ruth Avery	*Washington, D. C.*
Batten, William Waldo	*Pennville, Ind.*
Brabant, Margaret Elizabeth	*Marinette*
Braden, Dorothy Annabelle	*Cleveland, Ohio*
Brazee, Annie Laurie	*Merrill*
Brooks, Jesse Herbert	*Delavan*
Brown, Rowena Ruth	*Grand Forks, N. Dak.*
Brown, Theodore Taggart	*Madison*
Brunsell, Florence Louella	*Evansville*
Burgess, Nella Mae	*Wellston, Mo.*
Burkhardt, Bertha Ehrman	*Chicago, Ill.*
Cassell, Frances Elizabeth	*Hot Springs, Ark.*
Cooley, Everett Mortimer	*New London*

Crawford, George Gaver	*Kenosha*
Crosse, Richard Hugh	*Richmond, Ill.*
Diehm, Harold Frederick	*Remus, Mich.*
Dolan, Anna Clementine	*Cashton*
Douglas, Reinette Elizabeth	*Milwaukee*
Eicher, Kenneth Moody	*Detroit, Mich.*
Ellison, Perham Mansfield	*Minneapolis, Minn.*
Emmerling, Margaret Emily	*Milwaukee*
Farkasch, Ruth	*Madison*
Gannon, Francis William	*Sedan, Minn.*
Garvey, Isabel Whitney	*Chicago, Ill.*
Geiger, George Lowell	*Leavenworth, Kan.*
Goodyear, Charles Stewart	*Madison*
Hagen, Herbert Johnson	*Caledonia*
Hamilton, Arthur Clay	*Aurora, Ill.*
Harris, George Washburn	*Madison*
Haugen, Elva Bessie	*Madison*
Hayes, Sue Cushing	*Chippewa Falls*
Hoard, Halbert Wenham	*Ft. Atkinson*
Hofmann, Elschen Harriet	*La Grange, Ill.*
Holway, Gordon Safford	*Madison*
Johnston, Emily Tibball	*Cheyenne, Wyo.*
Karel, John Read	*Kewaunee*
Kothe, William Jacob	*Indianapolis, Ind.*
Kotinsky, Ruth	*Washington, D. C.*
Lewin, Charles Julius	*Berlin*
Limberg, Wayne	*Plymouth*
Low, Florence Henrietta	*La Porte, Ind.*
Lyons, Rosemary	*Riverside, Ill.*
McClure, Leslie Willard	*Litchfield, Minn.*
McConnell, Robert Sloan	*Greensburg, Pa.*
McDonough, Edward Jerome	*Edgerton*
MacDowell, Frances Elynora	*Chicago, Ill.*
Mallory, Louis Arthur	*Milwaukee*
Mead, Wilhelmina Elizabeth	*Merrill*
Mendenhall, Catherine	*Sheldon, Ill.*
Moore, Louise Clayborn	*Reynolds, Ill.*
Müller, Allan Chandler	*Chicago, Ill.*
Nadelhoffer, Corinne Blanche	*Downer's Grove, Ill.*
Nimlos, Mary Ruthella	*Madison*
Nye, Donald Oscar	*Bayfield*
Ormsby, Helen Mar	*Casper, Wyo.*
Parker, Melba	*Wichita, Kan.*
Pfister, Walter John	*Sheboygan*
Phillips, Wendell	*Madison*
Pickard, David Corvus	*Green Bay*
Platten, Peter Michael, Jr.	*Green Bay*
Potter, Donald Williams	*Madison*
Powell, Horace Breese	*Milwaukee*
Reynolds, Deane Edwin	*Bluffton, Ind.*
Rittenburg, Glen Fitch	*Whitewater*
Rogers, Talbot King	*Chicago, Ill.*
Rothnick, Edna Reese	*Madison*

Ruka, John Pirie	*Boscobel*	
Sawdey, Roy M.	*Conneant, Ohio*	
Schanke, Harriett Ann	*Mason City, Iowa*	
Schuetze, Robert Louis	*Monroe*	
Sinaiko, Clara	*Madison*	
Smallshaw, Hellen Frances	*Coldwater, Mich.*	
Steenberg, David Knox	*Indianapolis, Ind.*	
Swensen, Joel	*Eau Claire*	
Teare, Ruth Blanche	*Stillwater, Minn.*	
Townsend, Hubert Force	*Hot Springs, Ark.*	
Townsend, Puritan Muriel	*Chicago, Ill.*	
Tracy, Marguerite Elizabeth	*Wichita, Kan.*	
Trier, Clare Anna	*Hurley*	
Tuttle, Fordyce Eddy	*Madison*	
Vander Ven, Herbert	*Hales Corners*	
Walters, Dorothy Josephine	*Oak Park, Ill.*	
Wiegand, Margaret Anne	*Chicago, Ill.*	
Wilbur, Dorolese Marie	*Waukesha*	
Willard, Aliff Zara	*Decatur, Ill.*	
Wiric, Victor John	*Loyal*	
Woodworth, Douglas Harmon	*Sparta*	
Wright, Elizabeth	*Chicago, Ill.*	
Wynne, Cornelia Copeland	*Madison*	
Ziegler, Pauline	*St. Louis, Mo.*	
Zingg, Anselm Boyd	*Minneapolis, Minn.*	—94

General Course

Andersen, Olga Fredrika	*Madison*	
Crabtree, Rodger Cooke	*Milwaukee*	
Fentress, Olivia Primrose	*Hubbard Woods, Ill.*	
Keller, Daniel Hamilton	*Madison*	
Sullivan, John Howard	*Delavan*	
Wood, Thomas Stokely	*Duluth, Minn.*	—2

Adult Special Students

Alexander, John Jr.	*Aurora, Ill.*	Freshman
Baird, Pauline Lillian	*Friendship*	Freshman
Beavin, Thomas Sidney	*Brooklyn*	Freshman
Blauvelt, James Henry	*Nyack, N. Y.*	Freshman
Brewington, Russell Dumas	*Madison*	Freshman
Brockhausen, Herbert Henry	*Milwaukee*	Sophomore
Buchanan, Archibald	*Lake Mills*	Freshman
Burke, Catherine Genin	*Madison*	Junior
Butler, Erma Frances	*Madison*	Freshman
Carroll, Patrick Henry	*Vera, Ill.*	Freshman
Clark, Louis West	*Milwaukee*	Freshman
Cohn, Eugene Ross	*Kankakee, Ill.*	Freshman
*Cowan, John Warren	*Waltham, Mass.*	Senior
Cundiff, Hannah Mathews	*Madison*	Freshman
Dalgleish, David Mathew	*Milwaukee*	Freshman

*Died January 29, 1920.

Dawson, Charles Nash	*Beloit*	Freshman
Dillman, Margaret Claire	*Milwaukee*	Freshman
Eberhart, Lillie Elsie	*Fond du Lac*	Freshman
Elliott, William	*Madison*	Freshman
Emerson, Agnes Mary	*Edgerton*	Freshman
Fergen, Pearl Esther	*Madison*	Freshman
Foote, Nellie Margaret	*Hartford*	Freshman
Gerholz, Robert Paul	*Merrill*	Freshman
Guillemin, Victor, Jr.	*Milwaukee*	Freshman
Hamilton, Henry Huntington	*Two Rivers*	Freshman
Harting, Ralph Waldo	*Elwood, Ind.*	Freshman
Haven, Earl Edward	*Madison*	Freshman
Hill, Everett Le Forest Jr.	*Houston, Tex.*	Freshman
Houkom, Omer	*Blair*	Freshman
Kelly, Daniel Sheldon Whipple	*Pierre, S. Dak.*	Freshman
Kohl, Leo Henry	*Marshfield*	Sophomore
Kurz, Eva Elizabeth	*Milwaukee*	Freshman
Leitz, Frank Bantley s e	*Grand Rapids, Mich.*	Freshman
Le Wohl, Francis Herman	*Madison*	Freshman
McConkey, Fay Bernice	*Clinton, Ill.*	Freshman
McGilvary, Elizabeth Paton	*Madison*	Senior
Main, Owen James	*Casey, Ill.*	Freshman
Maltby, Frances	*Midway, Ky.*	Freshman
Mautz, Minnie Anna	*Madison*	Freshman
Meyers, Frederick John	*Milwaukee*	Freshman
Moeck, Arthur Henry	*Milwaukee*	Freshman
Moore, Mary Eliza	*Madison*	Senior
New, John Herman	*Madison*	Freshman
Nielsen, Norman Lee	*St. Louis, Mo.*	Sophomore
Olmsted, Robert Henry Jr.	*Omaha, Nebr.*	Freshman
Oskamp, Alexander McLeod	*Wyoming, Ohio*	Junior
Reitan, Norman Rudolph	*Bonduel*	Freshman
Retzer, John Peter	*Milwaukee*	Sophomore
Rodner, Alfred P.	*Madison*	Freshman
Sannes, Ingeborg Marie s e	*Madison*	Junior
Schlichting, Louise Augusta	*New York, N. Y.*	Freshman
Schmidt, George Arthur	*Madison*	Freshman
Simmons, Ruth Florence	*Aberdeen, S. Dak.*	Freshman
Sister, Mary Clarissa s e	*Madison*	Freshman
Steinauer, Joseph Christian	*Madison*	Freshman
Stewart, Robert Bruce	*Madison*	Sophomore
Tigay, Clara Deborah	*Milwaukee*	Junior
Trainor, Frankie	*Madison*	
Vivian, Reuben Leroy	*Mineral Point*	Freshman
Wang, Yeats	*Wuhu, China*	Freshman
Welsh, Millie Ann	*Eau Claire*	Freshman
White, Adeline	*Madison*	Freshman
White, Emil	*Racine*	Freshman
Woo, Tsi Tao	*Shanghai, China*	Freshman
Zeigler, Edith Corolee	*Glen Haven*	Sophomore

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Course in Commerce

Alber, Herbert	*Greeley, Colo.*	Freshman
Auer, Stuart Francis	*Milwaukee*	Freshman
Bisseli, Schuyler Pinney	*Adrian, Mich.*	Freshman
Bossard, George Grant	*Madison*	Freshman
Brockett, William Milton	*Milwaukee*	Freshman
Coates, Haskell Eugene	*Evanston, Ill.*	Freshman
Currie, Noyes Alexander	*Cando, N. Dak.*	Freshman
Decker, Harvey Charles	*Chilton*	Freshman
Deirnford, Dewey F.	*Blue River*	Freshman
Erwin, Charles Ward	*Evanston, Ill.*	Freshman
Feiges, Julius	*Racine*	Freshman
Fitzsimmons, Charles Harley	*Duluth, Minn.*	Freshman
Freer, William Bradford	*Hinsdale, Ill.*	Freshman
Greenlee, Eugene Hugh	*Black River Falls*	Freshman
Head, Kenneth Lindsay	*Milwaukee*	Freshman
Higbie, Willis Terwilliger	*Chicago, Ill.*	Freshman
Jenny, Hildegard Julie	*Milwaukee*	Freshman
Knollin, Loyal Constant	*Pocatello, Idaho*	Freshman
Lumanlan, Angel Tayao	*Bacalod, Occ. Negroes, P. I.*	Freshman
McDonald, Lawrence	*Whitewater*	Freshman
McKay, James Harry	*Waucoma, Iowa*	Sophomore
McNair, Ralph	*Brodhead*	Freshman
Martinsen, Arnold Bohn	*Minneapolis, Minn.*	Freshman
Moeller, Peter Rudolph	*Milwaukee*	Freshman
Monaghon, James Lawrence	*Milwaukee*	Freshman
Olson, Hobart	*Chicago, Ill.*	Freshman
Pieh, William John	*Madison*	Freshman
Pierce, Charles Arthur	*Madison*	Freshman
Roberts, Gaige Samuel	*Madison*	Freshman
Rubert, William Frederick	*Madison*	Junior
Schaller, Adolph Fred	*Barneveld*	Freshman
Steiger, Carl Emil	*Madison*	Freshman
Steinwender, Sheller Loomis	*St. Louis, Mo.*	Freshman
Sunstrom, Victor Hugo	*Marinette*	Freshman
Watson, Thomas John	*Madison*	Freshman
Woldenberg, Hevial Malcolm	*Madison*	Freshman

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Course in Journalism

Allen, Robert Sharon	*Cincinnati, Ohio*	Freshman
Bennett, Robert Case	*Kenilworth, Ill.*	Freshman
Coghlan, Ralph Modestus	*Chicago, Ill.*	Freshman
Halling, Martin Andrew	*Milwaukee*	Freshman
Jackman, Frances Spaulding	*Janesville*	Sophomore
Lee, Robert Edward	*Baraboo*	Freshman
Tiegs, Edith Howard	*Madison*	Sophomore
Waterman, Estelle Bridges	*New York, N. Y.*	Freshman

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Four Year Course in Pharmacy

Anderson, Ruby Ethel	*Milwaukee*	Freshman
Bacon, Franklin James	*New London*	Senior

Chen, Kokuei	*Shanghai, China*	Senior
Conney, Leo Younker	*Ripon*	Junior
Geiger, George Leonard	*Monroe*	Freshman
Groffman, Harlan George	*Manitowoc*	Senior
Heidbreder, Ralph Harold	*Quincy, Ill.*	Sophomore
Irish, Frederick Walker	*Tennessee, Ill.*	Junior
Kesten, Homer Davies	*Milwaukee*	Junior
Keyser, Glyndon Francis	*Oshkosh*	Sophomore
McDermott, Edward Joseph	*New Richmond*	Freshman
Michels, Hugo Conrad	*Chilton*	Freshman
Mills, William Kenneth	*Hazel Green*	Senior
Pokorney, Earl Joseph	*Racine*	Sophomore
Rath, Floyd Cecil	*Madison*	Senior
Schwarz, Alexander John	*Chilton*	Sophomore
Vorlop, Hugo Joseph	*Reedsburg*	Junior
Winkelblech, Lida Luella	*Millheim, Pa.*	Junior

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Two Year Course in Pharmacy

Albers, William W. Jr.	*Wausau*	Second Year
Aune, Roy Albert	*Rice Lake*	First Year
Barnard, Karl Simeon	*Brillion*	First Year
Barnett, Beauford Harrison	*Richland Center*	First Year
Barto, Glen William	*Richland Center*	First Year
Batker, Walter Frank	*Verona*	First Year
Beck, Albert Fred	*Arcadia*	First Year
Bosshard, John Adolph	*Bangor*	First Year
Bruss, Bernard Willis	*Milwaukee*	First Year
Burthe, Harvey Jerome	*Deerfield*	First Year
Butts, Leo Vinton	*Madison*	Second Year
Carlson, Oscar Herbert	*Birnamwood*	First Year
Chisholm, John	*Madison*	First Year
Consigny, Harry Emerson George	*Milwaukee*	Second Year
Critchlow, Virgil Burdette	*Mellen*	Second Year
Dieter, Earl Wilton	*Richland Center*	Second Year
Dissmore, Elbert David	*Whitehall*	First Year
Drewry, Bemrose William	*Milwaukee*	First Year
Edwards, Leroy Delos	*Lancaster*	First Year
Falstad, Gilroy C.	*Eau Claire*	Second Year
Frome, Walter August	*Sheboygan*	Second Year
Gage, Earl Edgar	*Whitehall*	First Year
Garland, George Wesley	*Rapid City, S. Dak.*	Second Year
Gerrits, Franklin Bernhardt	*Cedarburg*	First Year
Haanen, Louis Aloysius	*De Pere*	First Year
Hanson, Gerald Jay	*Wautoma*	First Year
Hopkins, Wm. Bixby	*Madison*	First Year
Hougen, Horace Percival	*Durand*	Second Year
Jenkins, Glen Llewellyn	*Sparta*	First Year
Johnson, Albert Edwin	*Iron River*	First Year
Keller, Keith Koolen	*Dallas*	Second Year

Kellman, Norris John	*Galesville*	First Year
Kennedy, Cornelius John	*Milwaukee*	First Year
Kitch, Glen DeWayne	*Bloomer*	First Year
Klein, Jennie Susan	*Elroy*	First Year
Klenert, William Wallace	*Portage*	First Year
Knoblauch, George Carl	*Madison*	First Year
Kotenberg, Albert William	*Waupun*	First Year
Lewis, Charles Noble	*Madison*	First Year
Lounsbury, Harry Edward	*Richland Center*	First Year
Lunda, Joseph E.	*Mt. Horeb*	Second Year
McCranner, Ivan Leland	*Madison*	First Year
Mauer, Merriil Bernard	*Fennimore*	First Year
Mercer, William Miller	*Delavan*	Second Year
Meredith, John James	*Mellen*	First Year
Moen, Reuben Earl	*Coon Valley*	First Year
Mulrooney, Leo Alphonsus	*Fennimore*	First Year
Nilssen, Harold	*Clear Lake*	Second Year
Pagenkopf, Herman August	*Bloomer*	First Year
Parkin, Charles Arleigh	*Evansville*	First Year
Pett, Frieda Anna	*Johnson Creek*	Second Year
Phillips, Milo Alfred	*Milwaukee*	Second Year
Poole, Jessie Myrle	*Shiocton*	First Year
Powers, Clement Michael	*Fond du Lac*	First Year
Price, Reginald John	*Prescott*	First Year
Raleigh, John Patrick	*Chilton*	First Year
Rosenquist, John Rudolph	*Stoughton*	First Year
Ross, Samuel Eddy	*Milwaukee*	Second Year
Schindler, George Edward	*Ashland*	First Year
Schumacher, Lorin George	*Chilton*	First Year
Schutz, Esther Lorain	*Madison, S. Dak.*	Second Year
Schwake, Norbert Edward	*Two Rivers*	First Year
Silverness, Nels Alvin	*Mondovi*	First Year
Sinclair, Ralph Merritt	*Dundee, Ill.*	First Year
Smedal, Gunna Mogna	*Macfarland*	First Year
Stephens, Anna Mary	*New Richmond*	First Year
Stucky, Anton Jr.	*Waseca, Minn.*	First Year
Thomas, Benjamin John	*Madison*	First Year
Turner, Ernest C.	*Hartford*	First Year
Uhl, Arthur Hoyt	*Galesville*	First Year
Unmuth, Martin Milton	*Oshkosh*	First Year
Vaughn, Glenn Henry	*Elkhorn*	Second Year
Williams, Rolland Franklin	*Edgerton*	First Year
Wright, Leon La Verne	*Lowell*	Second Year

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Adult Special—Four Year Course

Dooley, Milton Lawrence	*Milwaukee*	Freshman

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SCHOOL OF MUSIC

Seniors

Dennett, Dorothy Dixon	*Sheboygan*	
Lacy, Marjorie Helen	*South Wayne*	
Nash, Florence Marie	*Juneau*	
Quarberg, Isabelle Emma	*Mondovi*	
Ruder, Paula Louise s e	*Madison*	
Schneider, Esther Irene	*Madison*	
Simonson, Doris Marion s e	*Tomah*	
Smith, Georgina Wilson	*Racine*	
Turner, Ruth Marie s e	*Hebron, Ill.*	
Winnie, Mildred Louise s e	*Milwaukee*	—10

Juniors

Fritz, Fidelia Elizabeth	*Madison*	
Hanson, Herdis Parker s e	*Milwaukee*	
Heineck, Arvilla Evelyn s e	*Mondovi*	
Hull, Marion Mackey	*Milton Junction*	
Levi, Dorothea Everett	*Madison*	
McComb, Beulah Margaret s e	*Lima Center*	
Murray, Catherine Mary s e	*Wahpeton, N. Dak.*	
Powers, Thrascilla Anne	*Mauston*	
Sanders, Alice Marie	*Madison*	
Sanders, Paul Philip	*Madison*	
Sumption, Myra Rebecca s e	*Kendallville, Ind.*	
Tillotson, Mary Elizabeth	*Waupun*	
Timlin, Violet Loraine	*Phillips*	
Winsor, Ella	*Mauston*	—14

Sophomores

Britts, Ruby Evans	*Duluth, Minn.*	
Chandler, Martha Kuehmstedt s e	*Sheboygan*	
Hayden, Reba Claribel s e	*Madison*	
Howe, Velma	*Ripon*	
Mitchel, Olive Edith	*Madison*	
Olsen, Eyvind Thorheim	*Elkhorn*	
Outcalt, Christine Lura s e	*Wauseon, Ohio*	
Russell, Josephine	*Great Bend, Kan.*	—8

Freshmen

Atherton, Alice Fay	*Albany*
Bareis, Naomi Marie	*Madison*
Bates, Alice Cora	*Baraboo*
Beebe, Ruth	*Sparta*
Bennett, Ruth Marion	*Janesville*
Block, Beatrice Adelaide	*Kankakee, Ill.*
Bolliger, Louise Virgilia	*Madison*
Breitenbach, Janet Mary	*Madison*

Brown, Elizabeth	*Toledo, Ohio*	
Burger, Emma Louise	*Akron, Ohio*	
Chandler, Ruth	*Waupaca*	
Eastman, Vera Alice	*Grafton, Ill.*	
Haberman, Helen Lydia	*Madison*	
Hahn, Julia Ellen	*Kenosha*	
Harris, Gwenllian Jeannette	*Riverside, Ill.*	
Hipke, Irma Marguerite s e	*Chilton*	
Johnson, Hannah	*Wausau*	
Keene, Katherine Eve	*Harrisburg, Pa.*	
Landon, Frances Helen	*Clintonville*	
Lane, Elizabeth Blanche	*Janesville*	
Lewis, Rita Fae	*Chisholm, Minn.*	
McArthur, Elizabeth Berrie	*Janesville*	
MacKinney, Beth	*Eau Claire*	
Meholin, Mildred Pauline	*Boise, Idaho*	
*Merritt, Lorna Doone	*Grand Rapids, Mich.*	
Millin, Hazel Isadora	*Patch Grove*	
Mosel, Marion Letia	*Sun Prairie*	
Oestreich, Caroline Mina	*New London*	
Ohlhaver, Mildred Vivian	*Aurora, Ill.*	
Perham, Beatrice Minerva	*Sparta*	
Poteé, Winifred	*Omaha, Nebr.*	
Quade, Pearl Stella	*Wausau*	
Reagan, Sara Louise	*Knightstown, Ind.*	
Rossiter, Lauretta Meryin	*Milwaukee*	
Salzer, Ruth	*La Crosse*	
Schostak, Minnie Violet	*Milwaukee*	
Showers, Mabel Caroline	*Madison*	
Vastine, Blanche Adelia	*Oak Park, Ill.*	
Wilson, Irma Lucile	*Wyocena*	—39

Supervisors' Course

Second Year

Dohr, Hattie Alma s e	*Augusta*	
Gould, Ellen Mary	*Oshkosh*	
Hintz, Elmer Melvin	*Sheboygan*	
Kohn, Florence Eleanor s e	*Madison*	
Landgraf, Corinne Tousley	*Madison*	
Ogle, Frankie Margaret s e	*Sheboygan Falls*	
Roberts, Helen Haynes	*Winona, Minn.*	
Seybold, Sayda Ernestine s e	*Forest Junction*	
Skinner, Mildred Alice s e	*Tomah*	
Teske, Lucille Justine s e	*Princeton*	
Wong, Gladys Loraine s e	*Shell Lake*	—11

First Year

Barber, Dorothy Floy	*Chilton*	
Barth, Florence Kayle s e	*Beaver Dam*	
Cawley, Catherine Marie s e	*Wausau*	

*Died February 6, 1920.

Chisholm, Victoria Elizabeth s e	*Madison*	
Collier, Winnifred Mary s e	*Clintonville*	
Dieruf, Gladys Irene s e	*Madison*	
Dufek, Anna Marie s e	*Mishicot*	
Gibbs, Merle Irene s e	*Clinton, Iowa*	
Gunderson, Helen s e	*Fennimore*	
Hannan, Lillian Mae s e	*Oregon*	
Hooper, Majel s e	*Oshkosh*	
Knaup, Naomi Astha	*Beaver Dam*	
Knight, Gladys Mary s e	*Mazomanie*	
Labisky, Avis Marian s e	*So. Milwaukee*	
Lemmer, Ethel Marie s e	*Spooner*	
McCoy, Elizabeth Julia s e	*Lancaster*	
Moseley, Ethel Beck s e	*Madison*	
O'Boyle, Florence Milroy s e	*Kaukauna*	
Olson, Alma Luella s e	*Madison*	
Osborn, Donald Burt s e	*Madison*	
Rhodes, Vivian s e	*Madison*	
Stein, Doris	*Allegan, Mich.*	
Steuber, Ester Lillian	*Prairie du Sac*	
Stowell, Mildred Esther	*Dubuque, Iowa*	
Worden, Florence Minette	*Hillsboro*	
Zimmerman, Gladys s e	*Fennimore*	—26

Adult Specials

Four Year Course

Burke, Agnes Mary	*Madison*	Junior
Jaquish, John Henry s e	*Madison*	Sophomore
Longaker, Duane Sile	*East Aurora, N. Y.*	Freshman
		—3

Supervisor's Course

Darrin, Josephine Nellie	*Chicago, Ill.*	Second Year
		—1

Unclassified

Blumer, Leigh Walter	*Pearland, Tex.*
Briggs, Rosa Fitch	*Madison*
Daley, Philippa Treleaven	*Madison*
Davis, Hope Coy	*Madison*
Eisele, Edward J.	*Madison*
Friedman, Abram Ellis	*Roxbury, Mass.*
Garness, Gladys Annetta	*Whitewater*
Hansen, Jens Peter	*Oconomowoc*
Hartman, Edna Gertrude	*Madison*
Hedquist, Julia Johnson	*Madison*
Ives, Clifford E.	*Madison*
Johnson, Clarence Harry	*Grantsburg*
Klassy, Wilbert	*Belleville*
L'Hommedieu, Dorothy Kellogg	*Madison*
McMahon, Ella Anderson	*Madison*
Magneissen, Arthur Norman	*Augusta*
Mowry, Jean J.	*Madison*

Peterson, Mary White	*Madison*	
Prince, Marion Leslie	*Downers Grove, Ill.*	
Prince, Mrs. Marion Leslie	*Downers Grove, Ill.*	
Sale, Orvin A.	*Madison*	
Sister Felicita	*Madison*	
Sister Rose Marie	*Madison*	
Tyrrell, Gladys Dorothy	*Madison*	
Whiting, Florence Lillian	*Berlin*	
Withey, Maurine Kathryn	*Sioux Falls, S. Dak.*	—26

MEDICAL SCHOOL

Second Year

Adams, Robert Warren, Ph.B.	*Madison*
Altschwager, Edwin Henry l s	*Sheboygan*
Bach, Clarence Edwin l s	*Milwaukee*
Bemis, George Gordon l s	*Antigo*
Charlton, Alice Grace, B.A.	*Milwaukee*
Cirlin, Marcus Bernarr l s	*Madison*
Cochems, Kenneth l s	*St. Anthony, Idaho*
Cole, Arthur Vincent, B.A. g	*Mauston*
Connell, John William l s	*Fond du Lac*
Coon, George Wayland l s	*Milton Junction*
Coon, Harold M. l s	*Stevens Point*
Dahle, Artman Hovey l s	*Madison*
Donald, Ernest l s	*Madison*
Evans, Edward Thompson l s	*La Crosse*
Falstad, Clarence Henry l s	*Eau Claire*
Felsher, Hannah, B.S.	*Madison*
Finsky, Morris l s	*Lake Geneva*
Frederick, Roland Hubbard l s	*Milwaukee*
Gilman, Robert Louis l s	*Oshkosh*
Gorder, Arne Christian l s	*La Crosse*
Haberland, Erwin John l s	*Verona*
Harrison, Jeannette l s	*Morrison, Ill.*
Hartsook, Frank McCullough, B.A.	*Cardington, Ohio*
Head, Jerome Reed, B.A.	*Madison*
Hittner, Vernon James l s	*Seymour*
Howard, Margaret l s	*Portland, Ore.*
Huber, Herman Harry l s	*Milwaukee*
Huston, John l s	*Richland Center*
Irvine, Robert Kenneth l s	*Manawa*
Kevin, Paul Robert l s	*La Crosse*
Kidder, Earle Elton l s	*Madison*
Krohn, Irwin Kjilland l s	*Black River Falls*
Krumm, John Frederick l s	*Chicago, Ill.*
Luban, Simon l s	*Milwaukee*
McGanty, Michael Edmund l s	*Mauston*
Machlis, Samuel Arthur l s	*Madison*
Millard, Robert Dinsmore l s	*Antigo*
Morris, Francis Joseph l s	*Manitowoc*

Nebel, Harold, B.A. g	*Milwaukee*	
Overton, Orrin F. l s	*Beloit*	
Quisling, Sverre l s	*Madison*	
Raube, Herbert Albert l s	*Waupun*	
Roberts, Rob Roy l s	*Ft. Atkinson*	
Ronzone, Ethel, M.A. g	*Madison*	
Seybold, Erwin George l s	*Forest Junction*	
Smuckler, Robert Henry l s	*Milwaukee*	
Stern, William l s	*Kenosha*	
Tierney, Edward Frederick l s	*Portage*	
Urberg, Sofus Emanuel l s	*Blair*	
Werba, Daniel Richard l s	*Milwaukee*	—50

First Year

Bach, Mark John l s	*Milwaukee*	
Berger, Elsa l s	*Milwaukee*	
Bernhardt, Edmond Lloyd l s	*Wilton*	
Bigler, John Adolph l s	*Chippewa Falls*	
Bowles, John Herschel l s	*Sheldon, Ill.*	
Brown, Thomas Kenneth l s	*Waupun*	
Bump, Warner Smith l s	*Wausau*	
Caldwell, Hugh McIntyre l s	*Poynette*	
Calvert, Charlotte Joslin l s	*Madison*	
Campbell, Everette L. l s	*Madison*	
Carpenter, Earl Eugene l s	*Superior*	
Caylor, Truman E. l s	*Bluffton, Ind.*	
Clark, Burton Jr. l s	*Oshkosh*	
Conley, Henry Harold l s	*Cazenovia*	
Connell, Arthur John, B.S.	*Beloit*	
Connell, Laura May l s	*Fond du Lac*	
Corr, William Philip l s	*Juneau*	
Craighill, Margaret Dorothea l s	*Madison*	
Davidoff, Isidore Zalmon l s	*Milwaukee*	
Dobry, Lillian Anna l s	*Algoma*	
Doege, Paul Frederick l s	*Marshfield*	
Doerr, Margaret A. l s	*Mount Vernon, Ind.*	
Dredge, Thomas Joseph l s	*Madison*	
Ellis, Ivan George l s	*Milwaukee*	
Evans, Richard Donald l s	*Madison*	
Fagan, Robert Alvin l s	*Milwaukee*	
Feeney, John Matthias l s	*Glenwood, Minn.*	
Flatz, George Henry l s	*Milwaukee*	
Gnagi, Will B. l s	*Monroe*	
Goff, Sidney Britton l s	*Elkhorn*	
Gordon, Richard Jacob l s	*Chicago, Ill.*	
Grosh, Pearl, B.A. g	*Nappanee, Ind.*	
Gueguierre, Jacques Pierre l s	*Madison*	
Hemingway. Robert Wing l s	*Mattoon*	
Hess, Ardis Marie l s	*Mauston*	
Holcombe, Robert Lyndon l s	*Madison*	
Horwitz, Lazarus Herman l s	*Sheboygan*	
Ivey, Everett D. l s	*Millston*	
Jacobson, Roland Arthur l s	*Madison*	

Jahsman, William Edward, B. S.	*Manawa*
Jewell, Ernest L. l s	*Hillsboro*
Johnson, Harvey Chester l s	*Superior*
Kelsey, Carl Hammond l s	*Stevens Point*
Kitchell, Mary Virginia l s	*Topeka, Kan.*
Kornreich, Eugene Frederick l s	*Milwaukee*
Krembs, Ferdinand Richard l s	*Stevens Point*
Kupperman, Frances Victoria l s	*Madison*
Laskey, Norman Franklin l s	*Superior*
Leake, Chauncey D., B.Litt. g	*Madison*
L'Estrange, Gerald Aloysius l s	*Milwaukee*
Lightfoot, Lester Roderick l s	*Cloquet, Minn.*
Linden, Gabriel Eric l s	*Des Moines, Iowa*
Lorfeld, Gerhard William l s	*Sheboygan*
Lowe, John William l s	*Whitehall*
McAdams, Arthur James, B.S.	*Mukwonago*
McChesney, Annie Elizabeth l s	*Dane*
McCutchin, John Alex, B.S.	*Arena*
Mailer, Andrew Robert l s	*De Pere*
Meyer, William Frederic l s	*Milwaukee*
Miller, Russell Howard l s	*Whitewater*
Moore, T. Francis l s	*Watertown*
Murphy, Eleanor Janet, M.A. g	*Madison*
Nelson, Ernest Darandus l s	*Arcadia*
Nelson, Mark Snowden l s	*Canton, Ill.*
Newcomb, Alvah Lay l s	*Pepin*
Nickel, Allen Arthur Clarence, B.S.	*Milwaukee*
O'Leary, Elmer Bernard, B.A.	*Delavan*
Ostlund, Elvira Otilia l s	*Butte, Mont.*
Paul, Olin l s	*Marshfield*
Peterson, Edward N. l s	*Florence*
Peterson, Lea Willis l s	*Granton*
Peterson, Marvin Garfield l s	*Geneva, Ill.*
Philpott, Merrill Raymond l s	*Madison*
Pierce, Harrison Morton, B.A. g	*Madison*
Rankin, Frank, B.S. g	*Madison*
Reid, Dorothy Emma B.A. g	*Oconomowoc*
Rygh, Edgar Andrew l s	*Madison*
Sameth, Elsie, B.A. g	*Madison*
Schapiro, Saul l s	*Milwaukee*
Schlomovitz, Harry Herman l s	*Milwaukee*
Schubert, Clarence Karl l s	*Madison*
Schulz, Irvin Paul l s	*Milwaukee*
Shepherd, Thomas L. l s	*Platteville*
Sorenson, Thorvel Levi l s	*Racine*
Teschner, Paul A. l s	*Milwaukee*
Thompson, Troy Melvin l s	*Plevna, Mont.*
Thorngate, George B.A. g	*Exeland*
Vickers, James Leonard B.A.	*Huntington, W. Va.*
Vingom, Clair Odin l s	*Cliev, Mont.*
Vogel, Samuel Alexander l s	*Superior*
Wall, Mark Henry l s	*Eau Claire*
Weston, Frank Lawrence l s	*Mason City, Iowa* —92

COLLEGE OF ENGINEERING

Seniors

Albers, Walter Leland	*Prairie du Sac*	Min. E.
Barker, George J.	*Madison*	Min. E.
Baumann, Walter Otto	*Minneapolis, Minn.*	Ch. E.
Bergman, Miles Joseph	*Bark River, Mich.*	E. E.
Blaw, Herman Adolph	*Washington, D. C.*	C. E.
Blowney, Walter Edward	*Waukegan, Ill.*	E. E.
Braun, Alvin Charles	*Milwaukee*	Ch. E.
Brown, Stacy Lewis	*Beloit*	Ch. E.
Campbell, Lawrence Franklin	*Oshkosh*	M. E.
Charlson, Melvin Robert	*Eau Claire*	C. E.
Clark, Henry Wesley	*Niagara Falls, N. Y.*	C. E.
Cretney, Robert Wesley	*Madison*	Ch. E.
Dames, Erwin	*Chicago, Ill.*	C. E.
Day, Harold Payton Scott	*Madison*	E. E.
Donaldson, Chase	*Madison*	E. E.
Downey, Frank Edward	*Milwaukee*	M. E.
Drake, Ronald Irwin	*Mendota*	Ch. E.
Dresen, Joseph Ignatius	*Madison*	M. E.
Emanuel, Walter Arthur	*Fall Creek*	Min. E.
Fiedler, Elmore Walter	*Plymouth*	M. E.
Frank, Reimar August	*Milwaukee*	M. E.
Frater, George Gordon	*Elkhorn*	C. E.
Fulton, Franklin Davis	*Baltimore, Md.*	E. E.
Gaubatz, Arthur William	*Chilton*	M. E.
Geussenhainer, Frederick William	*Sheboygan*	Ch. E.
Gray, Charles Richardson	*Washington, D. C.*	E. E.
Greenslade, Irving Jones	*Milwaukee*	E. E.
Griswold, Frank Lynn	*Madison*	Ch. E.
Griswold, Henry Farnam	*Madison*	M. E.
Hamilton, Ray Ezra	*Cadott*	E. E.
Hansen, Waldo G.	*Beloit*	M. E.
Hanson, Clarence Ferdinand	*Waupaca*	M. E.
Hantzsch, Ralph Eugene	*Milwaukee*	E. E.
Heffernen, Raymond Arthur	*Madison*	C. E.
Hiestand, Francis Hall	*Madison*	C. E.
Holmes, Presley Dixon	*Southwest Harbor, Me.*	Ch. E.
Huber, William Gay	*Northfield, Mass.*	C. E.
Huntley, Harold Reveire	*Madison*	E. E.
Hymer, Howard Golden	*Lancaster*	Min. E.
Kalvelage, Clemens	*Milwaukee*	E. E.
Karger, Frank	*Milwaukee*	C. E.
Kerler, Ernest Alfred	*West Allis*	E. E.
Kidder, Charles Pomeroy	*Madison*	C. E.
Knapp, Harold Clark	*Milwaukee*	Ch. E.
Kuebler, George Benjamin	*Wausau*	M. E.
Ladwig, William John	*Juda*	E. E.
Lamont, Dallas Ralph	*Oregon*	E. E.
Lange, Herbel Arthur	*Beloit*	M. E.
Liebert, Arthur Eugene	*Milwaukee*	M. E.

Light, Robert Ferguson	*Dayton, Ohio*	C. E.
Lillesand, Lynn Norman	*Stoughton*	E. E.
Lindemann, Herbert E.	*Milwaukee*	M. E.
Lord, Herbert Overton	*Peshtigo*	C. E.
McConnell, David Francis	*Melita, Manitoba, Can.*	E. E.
McGraw, Vincent George	*Racine*	C. E.
McKinley, Marcellus James	*Dodgeville*	Min. E.
Maurer, Eugene Dickens	*Madison*	M. E.
Maxson, Rolland Horatio	*Milton*	E. E.
Mead, Harold Washburn	*Madison*	C. E.
Meisekothen, Edwin Edward	*Madison*	Ch. E.
Meyers, Paul Duncan	*Milwaukee*	Ch. E.
Meyers, Royal L.	*Kewaunee*	M. E.
Morice, Elton Knight	*Madison*	Ch. E.
Neel, Merville Charles	*Des Moines, Iowa*	C. E.
Nelson, Delmar Wood	*Peshtigo*	M. E.
Oberly, John Joseph	*Milwaukee*	Ch. E.
Osman, Ralph Thompson	*Duluth, Minn.*	M. E.
Owen, Halsey Franklin	*Milwaukee*	M. E.
Peterson, Lynnford Lawrence	*Deming, N. Mex.*	E. E.
Prince, Earl Samuel	*Madison*	Min. E.
Puerner, Bert Harvey	*Jefferson*	M. E.
Quimby, Frank Kendall	*Sheboygan*	C. E.
Radke, Orville Edward	*Madison*	E. E.
Ragatz, Roland Andrew	*Madison*	Ch. E.
Rankl, Fred Anthony	*Milwaukee*	C. E.
Ray, Otto Adolph	*Fish Creek*	Min. E.
Rheingans, William Jacob	*Jackson*	C. E.
Rice, Alex	*Milwaukee*	E. E.
Richardson, Claude Irving	*Dane*	E. E.
Roman, Joseph A.	*Viroqua*	Min. E.
Schaal, Norbert James	*Princeton*	M. E.
Scheinfeld, Emanuel	*Milwaukee*	C. E.
Schrader, Herbert Eugene	*S. Kaukauna*	M. E.
Schutte, Albert George	*Marshfield*	Ch. E.
Schuyler, Philip Kingsland	*Orange, N. J.*	C. E.
Sherbourne, Lewis Raymond	*Fremont*	C. E.
Siegel, Robert Charles	*Madison*	E. E.
Slaker, Don Valentine	*Indianapolis, Ind.*	Min. E.
Smith, Robert Evans	*Milwaukee*	C. E.
Snider, William Herbert	*Davenport, Iowa*	E. E.
Spafford, Allen	*Morrison, Ill.*	Ch. E.
Staidl, Joseph Arnold	*Shawano*	Ch. E.
Steele, Will Robert	*Lodi*	C. E.
Stiles, Dwight Hawthorne	*Lake Mills*	C. E.
Switzer, Raymond Albert	*Madison*	E. E.
Timm, Harold Daniel	*Grand Rapids*	M. E.
Turneaure, Frederick Stewart	*Madison*	Min. E.
Velguth, Waldemar	*Milwaukee*	Ch. E.
Walraven, Peter	*Kenosha*	C. E.
Walters, Warren Weir	*Madison*	Min. E.
Walton, Joseph Levi	*Moorestown, N. J.*	Ch. E.
Wichnovitz, Peter Ernest	*Marinette*	E. E.

Wiepking, Christopher Armin	*Milwaukee*	C. E.
Wolverton, Fred Melville	*Oshkosh*	Min. E.
Zahorik, Peter A.	*Milwaukee*	C. E.
Zarse, Clarence Henry	*Milwaukee*	Ch. E.
Zuege, David Clarence	*Milwaukee*	Ch. E.

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Juniors

Aanesen, Finn	*Cristiania, Norway*	M. E.
Allen, Raymond Henry	*Elkader, Iowa*	M. E.
Andersen, Carl John	*Milwaukee*	E. E.
Avery, Norman Kirk	*Peoria, Ill.*	E. E.
Barlow, Millard Merrill	*Arcadia*	Ch. E.
Barrows, Kenneth Campbell	*Duluth, Minn.*	E. E.
Barth, Karl Peter	*Milwaukee*	C. E.
Bautz, Marshall	*Milwaukee*	M. E.
Beardsley, George Lee	*Westcliffe, Colo.*	E. E.
Becker, David Dallas	*Galesburg, Mich.*	Min. E.
Benton, Dwight Faling	*Washburn*	Ch. E.
Bespalow, Eugene Frederick	*Chicago, Ill.*	C. E.
Bille, Harold W.	*Marshfield*	C. E.
Bohn, Donald Ivan	*Madison*	E. E.
Brewer, Richard Wallace	*Mineral Point*	E. E.
Brittingham, Thomas Evans Jr.	*Madison*	C. E.
Broker, Harvey Raymond	*Chilton*	Ch. E.
Brown, Freeman Harding	*Cashton*	E. E.
Brown, Harold Hasley	*Neenah*	E. E.
Bryn, Harold B.	*Cristiania, Norway*	E. E.
Buckingham, L. Everett	*Ludington, Mich.*	Ch. E.
Butterman, Ernest	*Chicago, Ill.*	Ch. E.
Butts, Stanley Van Dyke	*Tomah*	Ch. E.
Carlson, Louis Albert	*Milwaukee*	M. E.
Christensen, Harold Lund	*Berlin*	Ch. E.
Christensen, Martin	*Milwaukee*	E. E.
Cirves, Frank Herman	*Madison*	Ch. E.
Clark, Manley H.	*River Falls*	Ch. E.
Cole, John Walter	*Independence*	E. E.
Collins, Sidney Raymond	*Reedsburg*	C. E.
Compton, Donald Elliot	*Tomah*	C. E.
Congdon, Claire Cressey	*Delavan*	C. E.
Coomber, Howard Merton	*Kansas City, Mo.*	M. E.
Crider, Harold Elmer	*La Crosse*	C. E.
Davis, Russell Gardiner	*Milwaukee*	M. E.
Dean, Horace Kluffler	*Milwaukee*	M. E.
Dick, Walter Erwin	*Milwaukee*	E. E.
Donalds, John Eustace	*Superior*	C. E.
Donovan, Edward Thomas	*Milwaukee*	M. E.
Edmunds, Wade Melvin	*Aberdeen, S. Dak.*	E. E.
Emmerling, Hans Frederick	*Milwaukee*	Ch. E.
Erickson, Cyril L.	*Mondovi*	M. E.
Erickson, William Ernest	*Madison*	Ch. E.
Felber, Edward Richard	*Chippewa Falls*	M. E.
Ford, Henry Michael	*Janesville*	C. E.
Fourness, Earl Edward	*Milwaukee*	Min. E.

Gerhardt, Adelbert Paul	*Neenah*	M. E.
Gladden, Alfred Howard	*Manitowoc*	C. E.
Gould, Archie Hiram	*Nekoosa*	E. E.
Gregg, Scranton Hugh	*Milwaukee*	C. E.
Grimstad, Reuben Charles	*Mt. Horeb*	E. E.
Grubb, Everett Lorraine	*Indianapolis, Ind.*	Min. E.
Gruppe, Alfred Henry	*West Milwaukee*	C. E.
Guenther, Felix Gustave	*Port Washington*	E. E.
Gustin, Glen Hudson	*Wautoma*	C. E.
Hagen, Berger Amandus	*Stoughton*	M. E.
Hahn, Lawrence Hugo	*Reedsburg*	Min. E.
Hamblen, Jennings Bryan	*Franklin, Ind.*	Ch. E.
Hanson, Earl Parker	*Milwaukee*	M. E.
Harvey, Lyle Clifford	*Oconto*	Ch. E.
Hawkins, Andrew B.	*Cameron*	M. E.
Hawkins, Rayman Nelson	*Madison*	Ch. E.
Hayes, Frank Severance	*Superior*	M. E.
Head, Guerdon Herbert	*Platteville*	Ch. E.
Henrichsen, Christian Brun	*Bergen, Norway*	C. E.
Hiestand, Jacob Richard	*Madison*	Min. E.
Hinkley, Elroy Hall	*Milton Jct.*	C. E.
Hoff, Carl Johan Reinhardt	*Kristiania, Norway*	E. E.
Huebner, Bernard William	*Madison*	M. E.
Hummel, Lars K.	*Fond du Lac*	Min. E.
Hunzicker, Chester Earl	*Tomahawk*	M. E.
Ihlen, Alfred	*Kristiania, Norway*	M. E.
Ihlen, Joakim	*Kristiania, Norway*	E. E.
Jackson, Morris Dunn	*Madison*	E. E.
Jaeger, Walter Carl	*Cleveland*	C. E.
James, Burton Egbert	*La Crosse*	M. E.
James, Roy Walter	*Cazenovia*	M. E.
Jaquish, Casper Henry	*Madison*	Ch. E.
Johnson, Elmer Dewey	*Ashland*	E. E.
Johnson, James Warren	*Rye, Fla.*	E. E.
Jourdan, Ralph Louis	*Evansville, Ind.*	Min. E.
Kane, Eugene Aloysius	*Chicago, Ill.*	E. E.
Kates, Willard Anthony	*Arlington Heights, Ill.*	E. E.
Kelly, Pennell Clarke	*Ft. Atkinson*	Ch. E.
Kemler, Herbert James	*Platteville*	Min. E.
Kirst, Leland Avery	*Dodgeville*	Ch. E.
Klann, Alvin Rietbrock	*Milwaukee*	E. E.
Klement, Elmore Fred	*Ft. Atkinson*	C. E.
Koenecke, Paul M.	*Reedsburg*	Ch. E.
Krez, Frederick William	*Sheboygan*	C. E.
Kroncke, Earl Alfred	*Foley, Ala.*	C. E.
Kurtz, Chester Mott	*Milwaukee*	Ch. E.
Kurtz, Paul Henry	*Two Rivers*	M. E.
Kvaven, Sven	*Sirdal, Norway*	E. E.
Lange, William Hobart	*West De Pere*	C. E.
Larsen, Bernard Marvin	*Hayward*	Ch. E.
Lee, Harold Rudolph	*Superior*	E. E.
Lehman, Donald Griffith	*Waupaca*	E. E.
Lenck, Arthur Roy	*Milwaukee*	C. E.

Lindner, Herbert George	*West Allis*	E. E.
Link, Marcus William	*Madison*	Min. E.
Loomis, Casey Vaughn	*Milwaukee*	E. E.
Lundbert, Gustave Moritz	*Superior*	Min. E.
McAdams, Frank Clarence	*Madison*	E. E.
McCollum, George Willard	*Rice Lake*	E. E.
McConnell, James David	*Ronan, Mont.*	E. E.
McKinnon, Ralph Thomas	*Sioux Falls, S. Dak.*	C. E.
McLenegan, David Wallace	*Milwaukee*	M. E.
McManus, James F. Jr.	*Madison*	E. E.
McNamara, Edward John	*Superior*	E. E.
Mann, Louis Russell	*Muskegon*	Min. E.
Mansfield, Herbert Stanley	*Okauchee*	E. E.
Manthey, Rollin Henry	*Ablemans*	Ch. E.
Margoles, Harry	*Milwaukee*	C. E.
Miller, Harry Irl	*Madison*	E. E.
Miller, Karl Christensen	*Oshkosh*	C. E.
Mitchell, Malcolm	*Beloit*	Ch. E.
Moehlman, William Frederick	*Madison*	C. E.
Montgomery, Alvin Eugene	*Brooklyn*	Ch. E.
Morley, Chauncey McGarry	*Viroqua*	E. E.
Mueller, Emil Arthur	*Baraboo*	E. E.
Muth, Herbert Julius	*Milwaukee*	E. E.
Nash, Clyde Lester	*Eau Claire*	Ch. E.
Newing, William Bowger	*Appleton*	C. E.
Norberg, Thomas	*Christiania, Norway*	M. E.
Olson, Arthur O.	*Madison*	C. E.
Olson, John Hjalmar	*Hurley*	M. E.
Paddack, Rychen Maghen	*Wyoming, Ohio*	Ch. E.
Parsons, Cecil Paul	*Sparta*	E. E.
Paul, George	*Hurley*	M. E.
Pesch, Anthony William	*West Bend*	Ch. E.
Peterson, Clarence William	*Salem*	M. E.
Peterson, Halmer Aifred	*Courtney, N. Dak*	E. E.
Pidcoe, William Weston	*Madison*	M. E.
Pitzner, Alvin Frederick	*Johnson Creek*	Ch. E.
Pope, Frederick George	*Ablemans*	Ch. E.
Posz, Howard Merl	*Winona, Minn.*	M. E.
Price, James Robertson	*Milwaukee*	C. E.
Rafeld, Ernest August	*Green Bay*	M. E.
Reed, Philip Dunham	*Milwaukee*	E. E.
Reuter, William Robert	*Milwaukee*	C. E.
Rich, Corydon Lawrence	*Madison*	C. E.
Rogers, Ross Walter	*Lisle, Ill.*	E. E.
Rolland, Sverre Lind	*Bergen, Norway*	C. E.
Romig, Paul W.	*Madison*	M. E.
Rotter, Israel Irving	*Milwaukee*	C. E.
Royer, Paul Arson	*Madison*	M. E.
Rubenstyne, Jack	*Chicago, Ill.*	M. E.
Ryan, Joseph Edward	*Janesville*	C. E.
Scadden, Francis Herbert Clive	*Crystal Falls, Mich.*	Min. E.
Schmidt, Carlton Leonard	*Avoca*	Ch. E.
Schmitt, Francis Herman	*Milwaukee*	C. E.

Schneider, Roy John	*Arcadia*	C. E.
Schrage, Charles Thayer	*Sheboygan*	E. E.
Schroder, Gilbert William	*Milwaukee*	E. E.
Scofield, Lloyd Milton	*Sturgeon Bay*	Min. E.
Seder, Willard James	*Milwaukee*	C. E.
Shapiro, Morris	*Milwaukee*	E. E.
Shoemaker, Milton Jacobson	*Philadelphia, Pa.*	Ch. E.
Silverstone, Leon	*Milwaukee*	Ch. E.
Slezak, Gustav	*Racine*	M. E.
Smith, Forrest Ernest	*Blue Mounds*	M. E.
Solberg, Clarence Melvin	*Ashland*	Min. E
Sorenson, Helmar	*Whitefish Bay*	E. E.
Spring, Charles Edward	*Superior*	C. E.
Stalker, Dan Norman	*Toledo, Ohio*	M. E.
Sternlieb, Hyman Alfred	*Milwaukee*	E. E.
Strate, Joseph Taylor	*Fargo, N. Dak.*	M. E.
Strehlow, Arthur Frank	*Omaha, Neb.*	E. E.
Striegl, Albert Rollin	*Milton Jct.*	C. E.
Strohm, Victor Herbert	*Madison*	Ch. E.
Strong, John Stoughton	*Albion, Mich.*	E. E.
Strong, Thomas Foster	*Madison*	C. E.
Taranger, Aksel	*Kristiania, Norway*	E. E.
Taylor, Hamilton Dana	*Montgomery, Ala.*	M. E.
Terhorst, Willis	*Milwaukee*	M. E.
Terry, Owen Rockefeller	*Stoughton*	E. E.
Terry, Ralph Hooper	*Madison*	E. E.
Tsao, Cheng Kuch	*Peking, China*	Min. E.
Vobach, Arnold Charles	*Madison*	Ch. E.
Wagner, Karl Harold	*Wausau*	Ch. E.
Westmont, Oscar B.	*Beloit*	Ch. E.
Wheaton, Herbert Hudson	*La Crosse*	C. E.
Willson, C. Ardry	*Madison*	C. E.
Wonders, Max Eugene	*Omaha, Nebr.*	M. E.
Zaumeyer, Robert J.	*Milwaukee*	Ch. E.
Zwicker, Michael Henry	*Madison*	Min. E.

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Sophomores

Abrams, Ralph Bernard	*Milwaukee*	Ch. E.
Affleck, Herbert John	*Muscoda*	C. E.
Anderson, Carl John	*Washburn*	Ch. E.
Anderson, Gerald Andrew	*Whitehall*	Ch. E.
Anderson, Kenneth Elmer	*St. Croix Falls*	E. E.
Andree, Clarence Alois	*Milwaukee*	E. E.
Auby, Lawrence Copeland	*Madison*	M. E.
Austerman, Richard Wagner	*Madison*	E. E.
Ayton, Thomas William	*Kenosha*	E. E.
Bader, Earl Delbert	*Lyndon Station*	E. E.
Baker, James Stannard	*Amherst, Mass.*	E. E.
Barlament, Leland Reiff	*De Pere*	M. E.
Barland, George Clarence	*Eau Claire*	E. E.
Barnes, Ernest Merrill	*Madison*	C. E.
Beardsley, Edward Huggett	*Chicago, Ill.*	M. E.
Beck, Herbert Henry	*Fond du Lac*	E. E.

Becker, Roland Henry	*Milwaukee*	Ch. E.
Beglinger, Richard Theodore	*Oshkosh*	Ch. E.
Bell, Lewis Farnum	*McGregor, Iowa*	E. E.
Below, Cornelius Comstock	*Marinette*	C. E.
Bethke, Raymond Philip	*Elkhart Lake*	M. E.
Biersach, Herbert Frank	*Milwaukee*	C. E.
Birkenwald, Emil S.	*Milwaukee*	C. E.
Bittner, Theophilus V.	*Mayville*	E. E.
Björnson, Björn G.	*Reykarck, Iceland*	E. E.
Blair, John Portwood	*Chicago, Ill.*	M. E.
Blattner, John William	*Madison*	M. E.
Bonslett, Edward William	*McHenry, Ill.*	E. E.
Borgman, George John	*Milwaukee*	Ch. E.
Bowman, Philip George	*De Pere*	E. E.
Bozarth, Roger Ainslee	*Cedar Falls, Iowa*	Ch. E.
Brady, Harry William	*Peoria, Ill.*	C. E.
Brandau, Earl Rudolph	*Milwaukee*	M. E.
Breuer, Orvil William	*Manitowoc*	C. E.
Brill, William	*Green Bay*	E. E.
Brinck, Arne	*Christiania, Norway*	M. E.
Brown, Theron Adelbert	*Madison*	E. E.
Browne, William George	*Racine*	C. E.
Bruce, Robert Hart	*Milwaukee*	M. E.
Bruden, Clifford O.	*Eau Claire*	C. E.
Bruemmer, Carl William	*Milwaukee*	M. E.
Brumm, Roman Henry	*Madison*	C. E.
Buckstaff, Sherwood	*Oshkosh*	C. E.
Buese, Frank Anthony	*Kilbourn*	M. E.
Bulfer, Augustine Joseph	*Peru, Ill.*	Ch. E.
Bull, Benoyt Sidney	*Racine*	M. E.
Burnett, John Joseph	*Milwaukee*	Ch. E.
Bushey, Donald John	*Appleton*	M. E.
Campbell, Claude Wesley	*Beloit*	M. E.
Carson, William Henry Jr.	*Madison*	M. E.
Charlton, Alexander Richard	*Milwaukee*	M. E.
Chase, Leon Everett	*Viroqua*	C. E.
Chase, Sherman	*Madison*	E. E.
Christianson, Carl Bernard	*Stevens Point*	C. E.
Clarenbach, Ralph Emil	*Sheboygan*	C. E.
Clark, Frank Robert	*Madison*	Min. E.
Clawson, Donald Garret	*Harvard, Ill.*	E. E.
Coddo, William Elmer	*Antigo*	M. E.
Coleman, Edwin Dewitt	*Barron*	Ch. E.
Colony, Martin Pratt	*Evansville*	E. E.
Connell, Daniel Richard	*Beloit*	M. E.
Cooper, Charles Theodore	*Bellaire, Ohio*	E. E.
Cotton, Alfred Robert	*Milwaukee*	E. E.
Cowpland, Elliott McLane	*Ishpeming, Mich.*	Ch. E.
Cox, Edward Lorenz	*Madison*	M. E.
Cox, Irving Knapp	*Milwaukee*	M. E.
Davies, Frank C.	*Racine*	M. E.
Debruler, Eugene Osborne	*Evansville, Ind.*	M. E.
Dewire, Donald Stevens	*Sharon*	E. E.

Dickerson, Frederic Arthur	*Chicago, Ill.*	Ch. E.
Dickinson, James Gilbert	*Milwaukee*	E. E.
Donnelly, Daniel Wilfred	*Appleton*	M. E.
Doolittle, Charles Crandall	*Fish Creek*	Ch. E.
Drew, Everette Glen	*Dubuque, Iowa*	Ch. E.
Drewry, Montrose Keller	*Madison*	M. E.
Ebentier, Albert Frank	*Sutton, N. Dak.*	Ch. E.
Egan, Wilfred Martin	*Highland*	E. E.
Elliott, William Washington	*Oregon*	E. E.
Ellis, Asher Robert	*Madison*	Ch. E.
Elmendorf, Raymond Alvin	*Evansville, Ind.*	Min. E.
Elstad, Edward M.	*Whitehall*	Min. E.
Enders, LeRoy Louis	*Delafield*	E. E.
Erickson, Robert	*Cashton*	E. E.
Ewald, Sterling Donald	*Louisville, Ky.*	M. E.
Farwell, Knight Dick	*Milwaukee*	M. E.
Feddersen, Alfred Lund	*Racine*	E. E.
Feltman, Carl Howard	*Peoria, Ill.*	E. E.
Flom, Mervin Olbert	*Madison*	M. E.
Fong, Samuel Thomas	*Canton, China*	Ch. E.
Foote, Perry Eilbert	*Erie, Pa.*	Ch. E.
Garber, Leslie Harold	*Diamond Bluff*	E. E.
Gardner, Arthur Otto	*Milwaukee*	M. E.
Garrity, Leo Valentine	*Hudson*	C. E.
Gates, Claude Allan	*Walworth*	E. E.
Geiger, George	*Milwaukee*	M. E.
Geilfuss, Marshall Adrian	*Milwaukee*	C. E.
Gerhauser, John Parrmann	*Appleton*	Ch. E.
Gericke, Wesley Otto	*Lake Mills*	Min. E.
Giddings, William Werner	*Mendota*	Ch. E.
Giles, Merritt Albert	*Peoria, Ill.*	M. E.
Golley, Frank Benjamin	*Milwaukee*	E. E.
Gotham, Donald Emerson	*Mazomanie*	C. E.
Graham, William Carleton	*Dodgeville*	C. E.
Graves, Spencer Fred	*Wausau*	E. E.
Gregg, John Wyatt	*Milwaukee*	Ch. E.
Greiling, Winford Walter	*Green Bay*	M. E.
Grier, Lonnie Leander	*Lake Geneva*	M. E.
Grieve, Gilbert George	*Madison*	Min. E.
Gross, George Harrison	*York, Pa.*	M. E.
Grosskopf, Milton William	*Pella*	Ch. E.
Gude, Hans Erik Auker	*Kristiania, Norway*	C. E.
Guillemin, Ernest	*Milwaukee*	Ch. E.
Hahn, Leonard William	*Clinton*	C. E.
Hamilton, Frank, Jr.	*Madison*	Ch. E.
Hanley, Edward Vincent	*Milwaukee*	M. E.
Hanson, Paul Edward	*Mondovi*	C. E.
Hanson, Ray Frederick	*Milwaukee*	C. E.
Harris, Richard Charles	*Cando, N. Dak.*	Min. E.
Harris, Robert Austin	*Oak Park, Ill.*	M. E.
Hartwell, Henry Thomas	*Madison*	M. E.
Hedstrom, Lowry Henry	*Kenosha*	E. E.
Heins, Rudolph Jacob	*Madison*	E. E.

Hemsing, Gerald Kenneth	*Milwaukee*	Ch. E.
Henry, Edison Earl	*Ashland*	M. E.
Hensey, Earl William	*Ft. Atkinson*	Ch. E.
Herrick, Roswell Harry	*Mineral Point*	E. E.
Hill, Alvah Moore	*Onalaska*	Min. E.
Hill, George Amos	*Baraboo*	E. E.
Hillstrom, Clarence Edwin	*Park City, Utah*	E. E.
Hillstrom, William Simon	*Park City, Utah*	E. E.
Hirshberg, Maurice Arthur	*Milwaukee*	Ch. E.
Hockings, William Francis	*Burlington*	E. E.
Hoffman, Harry W.	*Ft. Atkinson*	Ch. E.
Holmes, John Bennett	*Point Pleasant, W. Va.*	Min. E.
Hornibrook, Francis Crary	*Marinette*	E. E.
Howes, Merwin Hayden Jr.	*So. Milwaukee*	C. E.
Howland, Gardner Greene	*Butte, Mont.*	Ch. E.
Hubbard, Honore Clinton	*Evansville*	Ch. E.
Huegel, Arthur John	*Milwaukee*	Ch. E.
Hyer, Frank Perry	*Whitewater*	E. E.
Hyzer, Arthur Sorge	*Reedsburg*	E. E.
Ingebritsen, Henry Percival	*Madison*	E. E.
Irving, John Ambrose	*Watertown*	E. E.
Isdahl, Enar	*Bergen, Norway*	M. E.
Johnson, Mary Constance	*Port Arthur, Tex.*	Ch. E.
Johnson, Norman Lincoln	*New Ulm, Minn.*	E. E.
Jones, T. Delbert	*Wales*	Min. E.
Kaasa, Orin Gordon	*Merrill*	Ch. E.
Karas, Leland Lewis	*Chicago, Ill.*	M. E.
Kelhofer, Leon Martin	*Sharon*	E. E.
Keller, Raymond Joseph	*Milwaukee*	Ch. E.
Kellett, William Richard	*Neenah*	Ch. E.
Kellogg, Rolland Francis	*Edgerton*	M. E.
Kemp, Harry Dudley	*Sparta*	M. E.
Kircher, Ralph N.	*Merrill*	M. E.
Kirk, Cecil Humphrys	*Benchland, Mont.*	E. E.
Klossner, Walter J.	*Rice Lake*	E. E.
Knollin, Albert J. Jr.	*Pocatello, Idaho*	C. E.
Knudson, Dwight Willard	*Sturgeon Bay*	M. E.
Kolgen, Emil Michal	*Shawano*	C. E.
Kortebein, Arthur John	*Milwaukee*	E. E.
Kraus, Harold Lester	*Elkhorn*	E. E.
Krause, Elmer George	*Milwaukee*	C. E.
Krenz, Adolph Bruno	*Onalaska*	M. E.
Krenz, Alfred Samuel	*Jefferson*	Ch. E.
Krotz, Alvin Shirley	*Janesville*	M. E.
Lallier, Charles Wesley	*Madison*	E. E.
Lamboley, Julian Joseph	*Belleville*	E. E.
Lanning, Brown Clifford	*Black River Falls*	E. E.
Ledin, Theodore Axel	*Milwaukee*	Ch. E.
Leinfelder, Cyril Lawrence	*La Crosse*	M. E.
Lieber, Paul Julius	*Milwaukee*	Ch. H.
Linden, John Fred	*Hayward*	Min. E.
Lippert, Erick William	*Marinette*	C. E.
Littell, Gla Eugene	*Spirit Lake, Iowa*	E. E.

Livingston, Penn P.	*Elk Mound*	C. E.
Longenecker, Ernst Abraham	*Neillsville*	M. E.
Lord, George Curtis	*Cando, N. Dak.*	Ch. E.
Love, Merrill De Witt	*Emerald*	M. E.
Loveless, Ralph Myers	*Warren, Ohio*	C. E.
Loverud, Earl K.	*Stoughton*	C. E.
Lunda, Ernest Milo	*Madison*	E. E.
McCabe, Eugene Horace	*Madison*	M. E.
McComb, Donald Walter	*Lima Center*	M. E.
McConnell, Philip Swain	*La Crosse*	E. E.
McGraw, Ernest Andrew	*Lake Geneva*	Ch. E.
McKaig, Willard Hulick	*Long Branch, N. J.*	Ch. E.
McLandress, Smith	*Stevens Point*	Ch. E.
McLaughlin, Raymond Brannon	*Bartlesville, Okla.*	M. E.
McMurran, Marshall John	*Windsor*	E. E.
Magann, J. Wilbur	*Madison*	E. E.
Maiers, Joseph Adams	*Buena Vista, Iowa*	C. E.
Manhardt, Chester Elmer	*Milwaukee*	Ch. E.
Mariategui, Benjamin	*Lima, Peru, S. A.*	C. E.
Martin, Robert Moore Jr.	*Louisville, Ky.*	E. E.
Mathews, George Clifford	*Ashland*	E. E.
Mathy, Anton	*Brussels*	C. E.
Maxfield, Terrell Banjamin Jr.	*Milwaukee*	M. E.
Mead, Dayton Richard	*Grand Rapids*	E. E.
Melnik, Morris A.	*Milwaukee*	Ch. E.
Merriam, Jesse Roger	*Columbus*	M. E.
Meverden, Leon Leslie	*Sturgeon Bay*	E. E.
Meyrick, Gordon Sumner	*Milwaukee*	E. E.
Miller, Benjamin Lawni	*West Allis*	Ch. E.
Miller, Birney Frank	*Omaha, Nebr.*	Min. E.
Millington, Fred Meader	*La Crosse*	Ch. E.
Mitchell, Donald Eugene	*Beloit*	M. E.
Mohr, Ernst John	*Milwaukee*	E. E.
Mootz, Raymond Phillip	*Milwaukee*	Ch. E.
Morrissey, James Joseph	*Waukan*	E. E.
Moulding, Joseph Watkins Jr.	*Delavan*	M. E.
Moxon, Earl Robert	*Stevens Point*	C. E.
Murphy, Clarence Hartwell	*Escanaba, Mich.*	E. E.
Nason, Charles Seymour	*Kenilworth, Ill.*	Ch. E.
Nelson, Floyd E.	*Kenosha*	E. E.
Nelson, Glenn	*Aurelia, Iowa*	C. E.
Neumann, Herbert Paul	*Milwaukee*	C. E.
Newmeister, Carl Louis	*Sheboygan*	Ch. E.
Nielsen, Johannes Thorvald	*Withee*	C. E.
Nienaber, Theodore George	*Kenosha*	E. E.
Nogueira, Frederico Pupo	*Campinas, Brazil*	E. E.
Nolte, Frederick William	*Wauwatosa*	E. E.
Nolte, Philip Peckering	*Wauwatosa*	C. E.
O'Connor, William Donald	*Hancock*	M. E.
Olson, Goldie Raymond	*Preston, Minn.*	E. E.
Ott, Elmer Albert	*Forest Jct.*	E. E.
Oyster, Dalies Josua	*Ripon*	E. E.
Paulus, Raymond Lawrence	*Milwaukee*	E. E.

Pauley, John Otto	*Milwaukee*	C. E
Pekofsky, Philip	*Milwaukee*	E. E.
Petersen, Robert Gerehardt	*Warren*	E. E.
Peterson, Sterling Donald	*Milwaukee*	E. E.
Pfeffer, Oscar	*Milwaukee*	Min. E.
Phillips, Harry Alexander	*Chicago, Ill.*	M. E.
Pierce, Melvin Charles	*La Crosse*	C. E.
Pond, Stuart Andrew	*Sharon*	E. E.
Poppert, Russell Linstead	*Milwaukee*	Min. E.
Powell, Robert Bruette	*Wausau*	C. E.
Powers, Harold Robert	*Oshkosh*	C. E.
Powers, Milton A.	*Cudahy*	M. E.
Prideaux, Gwilyn Fremont	*Dodgeville*	E. E.
Purnell, George William	*Madison*	M. E.
Putnam, Robert John	*Madison*	M. E.
Radley, H. Monroe	*Wild Rose*	C. E.
Rasmussen, Clarence Fisher	*Park Falls*	E. E.
Rau, Irving Julius	*N. Milwaukee*	Ch. E.
Raube, Reinhold Henry	*Waupun*	M. E.
Read, Philip Chester	*Milwaukee*	M. E.
Reading, Clyde William	*Oak Park, Ill.*	M. E.
Richardson, Nels Cornelius	*Sioux Falls, S. Dak.*	M. E.
Richter, Charles Frederick R.	*Milwaukee*	M. E.
Rickmeier, Carl Henry	*Sheboygan*	E. E.
Robar, Garret Dewey	*Aurelia, Iowa*	E. E.
Roberts, Richard A.	*Pittsburgh, Pa.*	E. E.
Robertson, Martin Rindlaub	*Platteville*	M. E.
Robertson, Richard Chamberlin	*Milwaukee*	Min. E.
Roettiger, Warren L.	*Fountain City*	C. E.
Rohlfing, Anthony Ferdinand	*Milwaukee*	C. E.
Rolsted, Simon Theodore	*Barron*	M. E.
Rove, Olaf N.	*Milwaukee*	C. E.
Rummler, Edgar Royle	*Milwaukee*	M. E.
Ryan, George Parker	*Madison*	Ch. E.
Samp, Arthur Martin	*Cecil*	M. E.
Schaper, Harold Henry	*Milwaukee*	M. E.
Schaub, Reginald R.	*Oconto Falls*	M. E.
Schlueter, Theodore Louis Martin	*Watertown*	C. E.
Schubring, George Frederick	*So. Milwaukee*	C. E.
Schulte, Ernest Charles	*Colby*	E. E.
Schultz, Raymond Clarence	*West Allis*	Ch. E.
Seitz, Ole H.	*Mellen*	E. E.
Sery, Ralph Joseph	*Monroe*	E. E.
Shapiro, Leo Henry	*Milwaukee*	C. E.
Sharp, Howard Melbourne	*Oconto Falls*	E. E.
Siebken, Herman P.	*Elkhart Lake*	M. E.
Skala, Edward John	*Kewaunee*	E. E.
Slichter, Donald Charles	*Madison*	Ch. E.
Smith, Clinton Fulton	*New Richmond*	C. E.
Smith, Fred Gund	*Freeport, Ill.*	M. E.
Smith, William Lee	*Racine*	Ch. E.
Soll, Rolland Hugo	*Milwaukee*	Ch. E.
Spetz, Ralph Ferdinand	*Milwaukee*	C. E.

Spielman, Harold Joseph	*Park Ridge, Ill.*	Ch. E.
Staehle, Karl Arthur	*Manitowoc*	E. E.
Stamm, Frederick Carlton	*Grand Rapids*	Ch. E.
Stege, George Washington	*Kenosha*	M. E.
Stegeman, Henry Randall	*Ft. Thomas, Ky.*	M. E.
Stein, Howard Allen	*Annapolis, Md.*	M. E.
Stewart, Robert Dewey	*Cambridge*	E. E.
Stickle, Theodore Everette	*Cottage Grove*	M. E.
*Stokes, Paul Pusk	*Elkhorn*	E. E.
Strang, George Henry	*Richland Center*	E. E.
Ström, Sverre	*Eker, Norway*	M. E.
Stumpf, Walter Peter	*Madison*	M. E.
Swartz, Stanley D.	*Brodhead*	E. E.
Sylvester, Richard Lawrence	*Waukesha*	E. E.
Taylor, Edwin L.	*Madison*	C. E.
Taylor, Thomas Dewey	*Chicago Heights, Ill.*	Ch. E.
Teodoro, Anastasio y Lalota	*Santa Cruz, Laguna, P. I.*	M. E.
Terry, Eugene John	*Baraboo*	E. E.
Thiel, Walter Conrad	*Schleisingerville*	C. E.
Thorpe, Noel Carlton	*Stanley*	C. E.
Tooman, Arthur Ronald	*Racine*	Ch. E.
Touton, Rush D.	*Edgerton*	E. E.
Traub, Walter Gustav	*Milwaukee*	Ch. E.
Travers, Joseph Hill	*St. Louis, Mo.*	C. E.
Trayser, Anthony Chester	*New London*	E. E.
Trebus, Erwin Henry	*Eau Claire*	E. E.
Trier, Celestin Joseph	*Hurley*	M. E.
Trueblood, Wilson David	*New York, N. Y.*	Ch. E.
Uhlig, William Frank	*East Orange, N. J.*	Min. E.
Walde, Leonard Oscar	*Superior*	E. E.
Wallman, Otto Fred	*Stratford*	M. E.
Walsh, James E.	*Richland Center*	C. E.
Warmuth, Henry Joseph	*Philadelphia, Pa.*	Ch. E.
Watts, Wilbur Edmund	*Lomira*	E. E.
Wegner, Gilbert Walter	*Wausau*	Min. E.
Weis, Charles Lewis Jr.	*La Crosse*	Ch. E.
Weiss, Armond Charles Jacob	*Milwaukee*	M. E.
Welch, Halbert Austin	*Oconomowoc*	M. E.
Welitzkin, Isidor	*Milwaukee*	M. E.
Wengel, Raymond William	*Madison*	Ch. E.
Wessely, Edward Arthur	*Kewaunee*	M. E.
Wheeler, Charles Eugene Jr.	*Beloit*	C. E.
Whelan, William Miller	*Mondovi*	M. E.
Wieland, Edwin Leo	*Milwaukee*	M. E.
Wille, Clarence Wilkins	*Milwaukee*	Ch. E.
Williams, Clemens Herman	*Elkhart Lake*	Min. E.
Wolfe, Frank I.	*Kenosha*	M. E.
Wolters, Herbert Henry	*La Crosse*	Min. E.
Wolverton, Robert Farrow	*Oshkosh*	Min. E.
Woods, James Park	*Nevada, Mo.*	M. E.
Yapp, Clinton R.	*Ridgeway*	Ch. E.

*Died January 21, 1920.

Youngberg, Adolph Frederick	*La Crosse*	C. E.
Zamzow, William Herbert	*Baraboo*	E. E.
Zander, Karl Levenhagen	*Manitowoc*	C. E.
Zelonky, Benjamin	*Milwaukee*	C. E.
Zervas, Walter Otto	*Milwaukee*	C. E.
Zimmerman, Wallace Raymond	*Beaver Dam*	M. E.
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Freshmen

Adam, Louis George	*Horicon*	E. E.
Ahern, Thomas Leo	*Fond du Lac*	M. E.
Aide, Dan Byron	*Mineral Point*	E. E.
Aiken, Howard H.	*Indianapolis, Ind.*	E. E.
Albrecht, Andre Edwin	*Mayville*	E. E.
Albrecht, Clarence William	*Madison*	Min. E.
Allen, Joseph Lloyd	*Indianapolis, Ind.*	M. E.
Ames, Kenneth Shirley	*Madison*	Ch. E.
Amundson, Edward	*Rio*	M. E.
Amundson, Helmer Clarence	*Rio*	M. E.
Angle, Forrest Gates	*Sparta*	E. E.
Anthony, Herman Russell Chidester	*Madison*	M. E.
Armstrong, Cyrus John	*Oconto*	E. E.
Bachhuber, Hugo Charles	*Mayville*	Min. E.
Bamford, William Lee	*Madison*	E. E.
Bancroft, George Russell	*Blue Mounds*	M. E.
Barrus, Warner Milnot	*Clinton*	E. E.
Bartels, William Carl	*Sheboygan*	E. E.
Bartruff, Chester Earl	*Chicago, Ill.*	M. E.
*Beach, George Burton	*Muscatine, Iowa*	Ch. E.
Beckerman, Russell	*Milwaukee*	Ch. E.
BeDell, Audry Burr	*Menominee, Mich.*	M. E.
Behrens, Herbert Charles	*Woodstock, Ill.*	Ch. E.
Bennett, George Vincent	*Janesville*	Ch. E.
Bennett, Lester Cealian	*Endeavor*	M. E.
Benyas, David	*Appleton*	E. E.
Betzer, Cecil Everett	*Kenosha*	E. E.
Biglow, Terry King	*Ashland*	Min. E.
Bittner, Victor Frederick	*Mayville*	Ch. E.
*Blackstone, Charles Milford	*Shullsburg*	E. E.
Blaisdell, Charles Oswald	*Darlington*	E. E.
Bliss, George William	*Mineral Point*	C. E.
Bode, John Carl	*Keokuk, Iowa*	Ch. E.
Bogie, Mord Maughan	*Chicago, Ill.*	Min. E.
Bogumill, Thomas Richard	*Thorp*	E. E.
Bohrnstedt, Russell George	*Arcadia*	M. E.
Bolender, Howard Hosier	*Monroe*	M. E.
Bolens, Douglas William	*Port Washington*	Ch. E.
Boning, Herbert Edward Jr.	*Milwaukee*	Ch. E.
Bonner, George Edward	*Oconto Falls*	E. E.
Bonshea, George Wade	*Onalaska*	E. E.
Borge, Carl Peter	*Hudson*	E. E.

*Died January 28, 1920.

Boruszak, Nathan	*Milwaukee*	E. E.
Bovingdon, Francis Fee	*Camptown, Pa.*	E. E.
Bowers, Archie Frank	*Hudson*	M. E.
Boyce, Frank Fairbrother	*Brooklyn*	M. E.
Bracken, John Hart	*La Grange, Ill.*	C. E.
Brannon, Drysdale	*Alexandria, Ind.*	Ch. E.
Brant, Paul S.	*Madison*	C. E.
Brown, Arthur E.	*Appleton*	C. E.
Buchan, Floyd Wayne	*Fond du Lac*	E. E.
Bumer, Frank Ludwig	*Brookline, Pa.*	C. E.
Burelbach, Peter John	*Knowles*	E. E.
Buse, Leslie August	*Beloit*	E E.
Bushman, Roy Francis	*Burlington*	C. E.
Button, DeVere Elkworth	*Sparta*	C. E.
Bybuth, Engvald Oliver	*Eau Claire*	M. E.
Bybuth, Martin Edward	*Eau Claire*	M. E.
Cafferty, Neil George	*Madison*	E. E.
Cape, Charles Benjamin	*Racine*	E. E.
Carlson, Donald Warren	*Milwaukee*	M. E.
Carpentier, Raymond Arthur	*Amery*	E. E.
Christie, Walter Thomas	*Indianapolis, Ind.*	E. E.
Chyle, John Joseph	*Cudahy*	Ch. E.
Clark, John Melburne	*Rewey*	M. E.
Clark, Lemore Wilder	*Evansville*	E. E.
Clark, Robert Astly Jr.	*Mauston*	E. E.
Clarke, Charles Perry	*Janesville*	E. E.
Clements, Chester Orville	*Marinette*	M. E.
Clifford, Franklin James	*Evansville*	E. E.
Coe, Simeon Miles	*Sterling, Ill.*	E. E.
Cohen, Jesse	*Waupaca*	E. E.
Connolly, Robert	*Racine*	C. E.
Corliss, Allen Gregory	*La Grange, Ill.*	Ch. E.
Cook, Arthur Kenneth	*Oshkosh*	M. E.
Crabb, Francis Aloysius	*Green Bay*	E. E.
Cusson, Samuel James Jr.	*Chicago, Ill.*	E. E.
Danielson, Henry Theodore	*Madison*	E. E.
Davies, Clinton William	*Racine*	M. E.
Day, John Gould	*West Bend*	Ch. E.
Day, Walter Leslie Jr.	*Milwaukee*	C. E.
Debbink, Claude John	*Milwaukee*	C. E.
Decker, Karl Titus	*Janesville*	M. E.
Desmond, John Thomas	*Boscobel*	C. E.
Dickson, Lester Raymond	*Milwaukee*	E. E.
Dieterle, John Herbert	*West Allis*	M. E.
Dietzman, Oscar LeRoy	*Richland Center*	E. E.
Dohr, Ira Robert	*Augusta*	E. E.
Dolliver, Ardin Joseph	*Berlin*	Min. E.
Donaldson, Clarence William	*Milwaukee*	E. E.
Dunlap, James Dwight	*Indianapolis, Ind.*	M. E.
Dunn, Clark Allen	*Stickney, S. Dak.*	C. E.
Dunwiddie, Lester Newton	*Mineral Point*	E. E.
Durham, Franklin Alexander	*Waveland, Ind.*	Min. E.
Eddy, Robert William	*Madison*	E. E.

Edman, Ralph William	*Rockford, Ill.*	M. E.
Edwards, David Harold	*Cambria*	M. E.
Eiring, Erwin Bernard	*Milwaukee*	M. E.
Elmer, Arthur Christian	*Plymouth*	C. E.
Emanuel, Alvin Jule	*Fall Creek*	Min. E.
Engler, Robert John	*Cassville*	Ch. E.
Ennor, William Trehane	*Madison*	Ch. E.
Evanson, Henry Bernard	*Mt. Horeb*	E. E.
Ewing, Edward Alvord	*Janesville*	C. E.
Fairbank, Nelson Russell	*Fond du Lac*	E. E.
Finkle, George Henry	*Greenwood*	E. E.
Finnemore, Harold Burt	*Barron*	E. E.
Fisher, William Henry	*Minocqua*	C. E.
Fitze, Maurice Edward	*Beloit*	M. E.
Flekke, Adolph	*Mondovi*	C. E.
Fletcher, Harold Chester	*La Crosse*	E. E.
Flint, Clarence Ellis	*Milwaukee*	C. E.
Flynn, William	*Milwaukee*	E. E.
Foot, Wayne Curtis	*Waterford*	C. E.
Foren, Francis Joseph	*Fond du Lac*	C. E.
Forrest, William Chipman	*Poynette*	E. E.
Forstner, Clifford Joseph	*Appleton*	Min. E.
Frank, David Soloman	*Sparta*	Ch. E.
Frantz, Charles Henry	*Milwaukee*	M. E.
French, Henry Clinton	*Galesville*	M. E.
French, Newell Ellsworth	*Racine*	E. E.
Friedman, Abraham Samuel	*Racine*	C. E.
Friedrichs, Alfred	*Hales Corners*	C. E.
Frost, Charles Walton	*Washburn*	Ch. E.
Frost, Morton Charles	*Kenosha*	M. E.
Fuller, Donald Pinkerton	*Cumberland*	E. E.
Galatz, Jack	*Milwaukee*	M. E.
Gallun, Albert Frederick Jr.	*Milwaukee*	M. E.
Ganther, Alfred Roman	*Oshkosh*	M. E.
Gassner, Aloysius Frederick	*Mayville*	E. E.
Gavin, George James	*New Richmond*	C. E.
Gay, David Guthrie	*Madison*	C. E.
Gazett, Milton Elbridge	*Green Bay*	M. E.
Germond, Hallett Hunt	*Madison*	E. E.
Gibson, Harley Louis	*Madison*	E. E.
Giddings, Harvard	*Fond du Lac*	C. E.
Giddings, Leo Henry	*Barron*	E. E.
Gilson, Edwin Russell	*Hammond, Ind.*	E. E.
Giuli, Thomas	*Milwaukee*	C. E.
Goetz, Fred Eldred	*Milwaukee*	E. E.
Goodlad, John Alfred	*Madison*	M. E.
Gould, William Francis	*Madison*	M. E.
Gramke, John Julius	*Janesville*	E. E.
Gray, John E.	*Mineral Point*	M. E.
Green, Sherman Baldwin	*Morrison, Ill.*	C. E.
Greenberger, Elberto Bernhardt	*Las Vegas, N. Mex.*	M. E.
Greenman, Ralph Norton	*Aberdeen, S. Dak.*	C. E.
Greer, Leslie Howard	*Lane, S. Dak.*	E. E.

Gregory, Emery Gerald	*Sparta*	M. E.
Griggs, Fred Williams	*Indianapolis, Ind.*	E. E.
Griswold, George Green	*Milwaukee*	E. E.
Groessl, Quiren Matthiew	*Algoma*	M. E.
Grossman, Donald K.	*Omro*	C. E.
Groth, Leslie Albert	*Middleton*	E. E.
Gunther, Gustav Adolph	*Spooner*	M. E.
Guthrie, Orville	*Waukesha*	E. E.
Haddorff, Irving R.	*Rockford, Ill.*	C. E.
Hahne, Howard Victor	*Madison*	C. E.
Halbert, Russell Dillon	*Red Oak, Iowa*	Min. E.
Halline, Allan Gates	*De Pere*	M. E.
Haney, Merwyn Augustin	*Sparta*	C. E.
Hanks, William Vilas	*Madison*	E. E.
Hansen, Magnus Christian	*Thorp*	Ch. E.
Hansen, Merrill Elmore	*Beloit*	Ch. E.
Hansen, Steiner Edward	*Ashland*	M. E.
Harbaugh, Marion Dwight	*Kansas City, Mo.*	C. E.
Hare, Clarence Matthew	*Barksdale*	Ch. E.
Harkins, Kellogg W.	*Milwaukee*	C. E.
Hart, Lyman Herbert	*Madison*	Ch. E.
Haugen, Edmond Harrison	*Brookings, S. Dak.*	M. E.
Hawkins, Milner Haine	*Madison*	C. E.
Hawn, Clarence	*Coleraine, Minn.*	Ch. E.
Hazen, Harvey Duke	*Phillips*	M. E.
Hegelmeyer, Harlan	*Stoughton*	M. E.
Henke, Herbert Frank	*Watertown*	E. E.
Hentzen, Herbert Dick	*Milwaukee*	M. E.
Herberner, Otto Berthald	*Mayville*	Min. E.
Hering, Reuben Eugene	*Cross Plains*	E. E.
Herrewig, Erwin Henry	*Wonewoc*	E. E.
Herrick, Neal Dow	*Ipswich, S. Dak.*	E. E.
Higginbotham, Earle Henry	*Waukegan, Ill.*	M. E.
Hilbert, Philip Fox	*Milwaukee*	Ch. E.
Hildebrandt, Herbert Curt	*Milwaukee*	Ch. E.
Hoar, Walter George	*Shell Lake*	C. E.
Hoelz, Alfred Nicholas	*Milwaukee*	E. E.
Hoelz, Carl Edward	*Milwaukee*	E. E.
Hofberger, Raymond Dexter	*Shawano*	Min. E.
Hoffman, LaVerne Milton	*Wilton*	C. E.
Hoffman, Philip A.	*Belle Plaine*	M. E.
Holm, Harold Wilhelm	*Racine*	E. E.
Homet, Francis James	*Camptown, Pa.*	M. E.
Hotaling, Eugene Charles	*Fond du Lac*	Ch. E.
Hoyt, Walter Edmund	*Rosendale*	E. E.
Huffman, Clyde Lorenz	*Waupun*	E. E.
Hunt, Leo Archibald	*Hurley*	Min. E.
Jelinske, Frank	*Oconto Falls*	E. E.
Jensen, Harold William	*La Crosse*	C. E.
Johns, Cedric P.	*Dodgeville*	E. E.
Johnson, Francis Albert	*Cambridge, Ill.*	M. E.
Johnson, Franklin Ervin	*Wausau*	Min. E.
Johnson, Harry Raymond	*Cambridge, Ill.*	M. E.

Johnson, Irving Burdett	*Delavan*	E. E.
Johnson, James Jr.	*Wauwatosa*	E. E.
Johnson, John Basil	*Madison*	C. E.
Johnson, Royce Everett	*Bear Creek*	E. E.
Jones, Everett Ward	*Fond du Lac*	Min. E.
Jones, Stanley Miles	*Rice Lake*	M. E.
Jones, Vincent Dohn	*Muncie, Ind.*	Ch. E.
Joys, John Eastman	*Milwaukee*	M. E.
Kahlenberg, Roger William	*Two Rivers*	E. E.
Kaiser, Leon Victor	*Bozeman, Mont.*	E. E.
Kanard, Leonard John	*La Crosse*	C. E.
Kavanaugh, Paul Edward	*Antigo*	E. E.
Keenan, John Anslow	*Oregon*	E. E.
Kellenberger, Bertram J.	*Minneapolis, Minn.*	Ch. E.
Kelly, Eugene David	*Leavenworth, Kan.*	E. E.
Kelly, Walter Ralph	*Milwaukee*	C. E.
Kersten, Aurin William	*Hartford*	E. E.
Kietzmann, Elmer Gustav	*Westfield*	E. E.
King, Edward John	*Watertown*	E. E.
Kingston, Lyle Henry	*Mountain*	E. E.
Kitchen, Harry Dean	*Madison*	Ch. E.
Klak, John James	*Thorp*	E. E.
Klaus, Gustav Kustermann	*Green Bay*	Ch. E.
Klencker, Wallace	*St. Louis, Mo.*	Ch. E.
Kloser, Edward	*Cassville*	Min. E.
Knecht, Otto Hesselrath	*Chicago, Ill.*	Min. E.
Knott, William Morgan	*Antigo*	E. E.
Knutson, Clarence Edward	*Blair*	E. E.
Koresh, George	*West Allis*	Ch. E.
Koskinan, Clyde John	*Fond du Lac*	M. E.
Koudelka, Edward John	*Antigo*	C. E.
Kraege, Carl Adams	*Madison*	E. E.
Kramer, Orin W.	*Lowell*	C. E.
Kramp, Leonard	*Owatonna, Minn.*	E. E.
Krause, Carl Walter	*Mellen*	M. E.
Krause, Otto Harry	*Mellen*	E. E.
Krueger, Raymond Arthur	*Merrill*	E. E.
Kubosch, Frank	*Milwaukee*	Ch. E.
Kuehlthau, Wareham Adam	*West Bend*	E. E.
Kurtz, Maynard Lynn	*Fort Atkinson*	C. E.
Labudde, John Frederick	*Oshkosh*	Ch. E.
LaChapelle, Harold Leroy	*Green Bay*	C. E.
Lamb, Kenneth Ellsworth	*Waterloo, Iowa*	E. E.
Langan, Edward Francis	*Kenosha*	M. E.
Larsen, Carl Ahren	*Oak Park, Ill.*	M. E.
Larson, Carl Frithrof	*Florence*	Min. E.
Larson, Lars Alfred	*Madison*	E. E.
Larson, Noble Guy	*Barron*	M. E.
Lawrence, Hans Will	*New London*	C. E.
Lean, William Harold	*Elkhorn*	M. E.
Lee, Marshall MacLean	*Oak Park, Ill.*	M. E.
Leemhuis, Carl William	*Mayville*	Min. E.
Leith, Kenneth	*Madison*	C. E.

Leitner, Edward Valentine Louis	*Minocqua*	M. E.
Levistein, Irvin Arthur	*Oshkosh*	C. E.
Lewis, Hugh L.	*Antigo*	M. E.
Lewis, Robert Benjamin	*St. Louis, Mo.*	C. E.
Liebermann, Albert Billack	*Watertown*	Ch. E.
Lohman, Leslie Curtis	*Two Rivers*	Ch. E.
Lotter, Joseph Conrad	*Seymour*	E. E.
Lu, Chia Chun	*Peking, China*	M. E.
Luedtke, Elroy Robert	*Reedsville*	C. E.
Lyon, William Jackson	*Wyalsing, Pa.*	E. E.
McArthur, Donald Arthur	*Gary, Ind.*	M. E.
McCaffery, Richard Stanislaus	*Madison*	Min. E.
McCann, Augustus Ripley	*Richland Center*	E. E.
McCarthy, Eugene James	*Flandreau, S. Dak.*	C. E.
McCreery, Walter Gay	*Marshalltown*	E. E.
McCullough, John Thomas	*Batavia, Ill.*	Ch. E.
McDonell, John Francis	*Montreal*	Min. E.
McDonough, John William	*Edgerton*	E. E.
McElwain, Ralph Windle	*Kenosha*	C. E.
McMullen, Ralph Earl	*Superior*	C. E.
McNamara, Merton John	*Antigo*	C. E.
MacSwain, Sumner Roderick	*Mosinee*	M. E.
Macken, Bernard Leo	*Darlington*	M. E.
Mackie, James Everett	*Green Bay*	C. E.
Mainland, William Sidney	*Racine*	M. E.
Manchester, Florance Edward	*Racine*	C. E.
Mangold, John Victor	*Milwaukee*	Ch. E.
Manke, Arthur G.	*Norwalk*	E. E.
Manning, Willis L.	*Clark, S. Dak.*	M. E.
Marks, Israel Edward	*Kenosha*	C. E.
Marshall, Fred Slade	*Merrill*	C. E.
Mason, Robert Lucas	*Sheboygan*	C. E.
Maurer, Harold John	*Milwaukee*	Ch. E.
Meyers, Everett Charles	*Reedsburg*	C. E.
Michael, Constant Hadji	*Neenah*	M. E.
Mickelson, Clyde Millard	*Stoughton*	M. E.
Miller, Edward Holmes	*Green Bay*	E. E.
Miller, Thomas Foster	*Green Bay*	E. E.
Minshall, Neal Edward	*Viroqua*	C. E.
Mogg, J. Owen	*Indianapolis, Ind.*	M. E.
Mohs, Carl Elijah	*Madison*	Ch. E.
Morhofl, Elroy John	*Middleton*	E. E.
Mount, Henry Samuel Jr.	*Milwaukee*	M. E.
Muegge, Oswald John	*Walsh, Ill.*	C. E.
Mueller, Carl Ernst	*Milwaukee*	M. E.
Murphy, Robert Joseph	*Kenosha*	Ch. E.
Myhre, Fred Palmer	*DeForest*	E. E.
Nalbach, John Roesch	*Moweaqua, Ill.*	E. E.
Natwick, John Wesley	*Grand Rapids*	Ch. E.
Nehls, Herold Albert Henry	*Kilbourn*	E. E.
Nelson, Carl Oliver	*Eau Claire*	M. E.
Nelson, George William	*Racine*	C. E.
Nerad, Anthony Joseph	*Racine*	M. E.

Newcomb, Edward Charles	*La Crosse*	C. E.
Newell, Foster Sheriff	*Irma*	Ch. E.
Nichols, Thomas Chester	*Milwaukee*	M. E.
Nielsen, Arnold Helmuth	*Sparta*	E. E.
Nielson, Frederick Alexander	*Pasadena, Cal.*	M. E.
Niles, Thomas MacMaster	*Oak Park, Ill.*	C. E.
Nixon, Cleveland Ford	*Racine*	Ch. E.
Noble, Ross Allen	*Riceville, Iowa*	M. E.
Norman, Chester Arthur	*Gile*	E. E.
Myhagen, Paul Thomas	*Manitowoc*	Min. E.
Oehler, Alvin William	*Minier, Ill.*	E. E.
Olander, Roland John	*Menomomie, Mich.*	M. E.
Onstad, Ragner Erick	*Madison*	E. E.
Ostrander, Sylvester Benjamin	*Columbus*	Ch. E.
Ouweneel, William Anton	*Milwaukee*	Ch. E.
Paddock, Douglas Lloyd	*Markesan*	C. E.
Padgham, Lorenzo Joseph	*Port Edwards*	Ch. E.
Park, Maurice Sanborn	*Madison*	M. E.
Peterson, Harold Arthur	*Odanah*	E. E.
Peterson, Harold Otto	*St. Paul, Minn.*	C. E.
Peterson, Julian LeRoy	*Beloit*	M. E.
Pfleger, Walter Edward	*Milwaukee*	Ch. E.
Phelps, Ivan	*Albany*	C. E.
Pickford, Jerome Michael	*Cudahy*	Ch. E.
Polaski, Steven Harris	*Nashotah*	M. E.
Pongratz, Douglas Blackwell	*Black River Falls*	E. E.
Pope, Henry Jr.	*Chicago, Ill.*	M. E.
Porth, Walter Henry	*Milwaukee*	M. E.
Potts, John Arlington	*Madison*	E. E.
Prendergast, James Harold	*Marion, Ohio*	C. E.
Quick, Casper Carl	*Niagara*	M. E.
Rabbitt, Ora Clyde	*Viroqua*	C. E.
Rabuck, Arthur Jacob	*Reedsburg*	C. E.
Radke, Alfred Herbert	*Madison*	Ch. E.
Rahr, Frederick Albert	*Green Bay*	E. E.
Ramsdell, Irving Meyer	*Madison*	E. E.
Reese, David B.	*Spring Green*	M. E.
Rehfeld, Paul Hiles	*Milwaukee*	E. E.
Reichelt, Lester O.	*La Crosse*	Ch. E.
Richmond, Lawrence Palmer	*Lodi*	E. E.
Rietz, Andrew Christopher	*Wabeno*	Ch. E.
Riley, Timothy Harvey	*Madison*	E. E.
Roach, Gordon William	*Fennimore*	C. E.
Roberts, John Allen	*La Grange, Ill.*	M. E.
Roberts, John William	*Milwaukee*	Ch. E.
Roberts, Morris Timothy	*Milwaukee*	Min. E.
Roehl, Arnold Elmer	*Wausau*	C. E.
Ross, Glen William	*Taylor*	M. E.
Rupp, Harold Melvin	*Portage*	E. E.
Rusch, Hugo Leonard	*Reedsville*	E. E.
Safley, Ritchie Phelps	*Tipton, Iowa*	M. E.
Sanderson, Ralph Linwood	*Baraboo*	M. E.
Sawtelle, Rolfe Bigelow	*Madison*	C. E.

Schacht, Delbert Herman	*Augusta*	E. E.
Schmahl, Delbert Henry	*Jackson*	C. E.
Schmidt, Chester John	*Monroe*	M. E.
Schmit, Dominic Frank	*Port Washington*	E. E.
Schoenlaub, Harold Houghton	*Milwaukee*	E. E.
Schoof, Harry William	*Adams*	E. E.
Schultheis, Herbert John	*Milwaukee*	Ch. E.
Schultz, Jesse Emil	*Black Earth*	C. E.
Schwarten, Louis William	*Peshtigo*	M. E.
Schwartz, Edwin	*Belvidere, Ill.*	E. E.
Schweers, Harry Edwin	*Shawano*	Ch. E.
Schurd, Nathan	*Milwaukee*	Ch. E.
Scott, George Walter	*Monroe*	Ch. E.
Senger, Werner Irving	*Madison*	M. E.
Servatius, John Peter	*Black Creek*	E. E.
Sherwood, Harrison Almon	*Ingram*	E. E.
Shields, Joseph Ransom	*Houghton, Mich.*	C. E.
Simons, Fred Adams	*Newtonville, Mass.*	C. E.
Slezak, John	*Racine*	M. E.
Smart, John Wilfred	*Montello*	E. E.
Smith, Lester Randolph	*Elkhorn*	E. E.
Smongeski, Paul Peter	*Two Rivers*	M. E.
Sogard, Lawrence Taylor	*Racine*	E. E.
Sowers, Cliton	*Kingman, Ind.*	M. E.
Spielman, Gordon Peter	*Park Ridge, Ill.*	M. E.
Spiva, Hubert Tamblyn	*Joplin, Mo.*	Ch. E.
Sprackling, George Austin	*Janesville*	E. E.
Stadelman, Otto Robert	*Madison*	M. E.
Steel, Homer James	*Milwaukee*	M. E.
Steffen, Milton F.	*Milwaukee*	E. E.
Stein, Jerome Reed	*W. Bloomfield, N. Y.*	E. E.
Steinmetz, George Philip	*La Farge*	C. E.
Stevens, Earle Bowman	*Sterling, Ill.*	E. E.
Stewart, Frederick Charles	*Madison*	M. E.
Stewart, Lynn William	*Rockford, Ill.*	Ch. E.
Stewart, Sturtevant	*Rockford, Ill.*	E. E.
Stith, Roy Lee	*Terry, Mont.*	C. E.
Stoll, Leonard DeWayne	*Sharon*	Ch. E.
Strathearn, John Gamel	*Manitowoc*	Ch. E.
Streeter, Raymond	*Kewaunee*	E. E.
Stromer, Anders Archibald Asar	*DeForest*	E. E.
Strothman, Edmund Pennel	*Milwaukee*	M. E.
Stuart, James Reeve	*Milwaukee*	C. E.
Stuckmann, Roland Carl	*Sheboygan Falls*	M. E.
Sullivan, John Frederick	*Hurley*	M. E.
Sutliff, Robert Calvin	*Rhinelander*	E. E.
Swenson, Carl Henry	*Kaukauna*	E. E.
Tang, Po Chan	*Hong Kong, China*	Ch. E.
Taylor, John Andrus	*Yonkers, N. Y.*	M. E.
Tesch, George Walter	*Port Washington*	Ch. E.
Tesch, Willard John	*Port Washington*	Ch. E.
Thessin, Paul George	*Milwaukee*	M. E.
Thomas, Walter Edward	*Milwaukee*	Ch. E.
Thompson, Willard Harold	*Madison*	E. E.

Timmons, James S.	*Monroe*	E. E.
Tjoflat, Gerald Benjamin	*Ettrick*	E. E.
Tobin, Harold Heber	*Mellen*	Ch. E.
Topolinski, Frank Henry	*Milwaukee*	Ch. E.
Traiser, Louis Martin	*New Richmond*	E. E.
Trotter, Richard Adelbert	*Virginia, Minn.*	M. E.
Tschudy, Lionel Carl	*Monroe*	C. E.
Twiton, Herbert Russell	*Sun Prairie*	Ch. E.
Van Den Berg, Robert Henry	*Milwaukee*	E. E.
Vander Kodde, William Frederick	*Sheboygan*	E. E.
Van Matre, Joseph Merrill	*Darlington*	E. E.
Verthein, Jerome Orville	*Middleton*	E. E.
Vilberg, Clarence Benjamin	*Mt. Horeb*	C. E.
Vitcenda, Theodore J.	*Cashton*	C. E.
Vornholt, Karl Edward	*Madison*	E. E.
Votteler, Theodore	*Waukesha*	M. E.
Wade, Irving Luther	*Wauwatosa*	M. E.
Walker, Albert Livingston	*Oak Park, Ill.*	M. E.
Wanenstein, John Stuart	*Duluth, Minn.*	E. E.
Wasson, Clinton Irish	*Muncie, Ind.*	Ch. E.
Watson, Merle Kenneth	*Mauston*	Ch. E.
Weidman, Bernard Alfred	*Fond du Lac*	M. E.
Whale, Robert Gerald	*Waupaca*	C. E.
Wheeler, John Ambrose	*Geneva, Ill.*	C. E.
Whitman, Allen Kent	*Kaukauna*	E. E.
Wicker, Kenneth Russell	*Stratford*	C. E.
Wilcox, Clarendon Wilton	*Madison*	Ch. E.
Williams, Clarence Michael	*Madison*	M. E.
Wilson, Bartlett Kniffin	*Muncie, Ind.*	Ch. E.
Wilson, Joe Hull	*Milwaukee*	E. E.
Wolters, Edward Carl	*La Crosse*	C. E.
Woschutz, Joseph Frank	*Milwaukee*	Ch. E.
Wrend, Ben	*Madison*	C. E.
Wu, Wei Chou	*Chou Tze Shensi, China*	E. E.
Wupper, Benjamin Franklin	*Milwaukee*	M. E.
Young, Raymond Albert	*Wauwatosa*	E. E.
Youngberg, Harold John	*La Crosse*	C. E.
Zander, Arnold Scheuer	*Two Rivers*	C. E.
Zapfe, Emil Jullius	*Green Bay*	C. E.
Zemlicka, Urban Fred	*Highland*	M. E.

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Adult Specials

Alfery, Henry Frank	*Milwaukee*	E. E. Freshman
Branks, Joseph Orrin	*Janesville*	M. E. Sophomore
Coleman, Frederick George	*Milwaukee*	E. E. Freshman
Dawson, James Thomas	*Beloit*	C. E. Freshman
Fensel, Alden Charles	*Milwaukee*	C. E. Freshman
Flatman, George James	*Madison*	E. E. Senior
Gifford, Willis Erwin Jr.	*Madison*	C. E. Freshman
Gillen, Eugene Owen	*Madison*	Min. E. Freshman
Knoerr, Rudolph Robert	*Milwaukee*	E. E. Senior
Luening, Robert Louis	*Oconomowoc*	Ch. E. Freshman
Morgan, Robert Frank	*Madison*	C. E. Freshman

O'Brien, John Nelson	*Darien*	E. E. Freshman
Price, Elmer Ehlers	*McComb, Miss.*	C. E. Freshman
Redin, Roy Wilmer	*Rockford, Ill.*	M. E. Sophomore
Sandler, David Henry	*Madison*	E. E. Sophomore
Schostak, Abraham	*Milwaukee*	E. E. Freshman
Silver, Charles Eugene	*Milwaukee*	M. E. Freshman
Ubbink, Joseph John	*Port Washington*	C. E. Junior

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LAW SCHOOL

Third Year

Barnett, Joseph Evans	*Lancaster*
Behnke, Carl Edwin	*Manawa*
Brendemuehl, Alvin Gottfried	*Watertown*
Brody, Lawrence John	*Cashton*
Conley, Emmet Joseph	*Superior*
*Conway, Paul Hoffmann	*Watertown*
Duff, Joseph Pomford	*Superior*
Dunn, Charles Bryan, B.A.	*Madison*
Fischer, Robert Harrison	*Two Rivers*
Forehand, Harry Verne	*Madison*
Gooding, Lawrence Earl	*Fond du Lac*
Harrington, Richard	*Oshkosh*
Higson, Francis Delmar, B.A.	*Madison*
Jenkins, Lyel Newton	*Sparta*
Kloetzner, Ottomar	*Milwaukee*
Lappley, Gilbert Frost	*Madison*
Laus, R. Curtis	*Oshkosh*
McWilliams, Glen John	*Janesville*
Peters, Robert LeRoy, B.A.	*Blue River*
Pile, John Charles, B.A.	*Dodgeville*
Porter, Carl Elder, B.A.	*Madison, S. Dak.*
Pradt, Louis Atwater Jr., B.A.	*Wausau*
Richardson, Chester D., B.A.	*Madison*
Riley, Harry William	*Winneconne*
Robinson, Philip Kyle, B. A.	*Green Bay*
Ruder, George Louis, B.A.	*Wausau*
Saunders, Allen F., B.A. g	*Amherst, Mass.*
Schmidt, Karl August	*Wausau*
Schweichler, Lothar Adolph, B.A.	*Milwaukee*
Shuttleworth, Farrand Dames	*Madison*
Slocumb, Ira Otis	*Neillsville*
Staidl, Stanley Anton	*Shawano*
Sutherland, Robert James	*Madison*
Toohy, John Croft	*Superior*
Wheeler, Sylvester Lawrence B.A.	*Wauwatosa*
White, Irvin Arnold, B.A.	*Antigo*
White, Kenneth Sidney	*River Falls*
Whyte, Malcolm Kenneth, B.A.	*Madison*

*Died December 19, 1919.

Wickham, J. Arthur	*Eau Claire*	
Wilbert, Gustave Carl	*Thiensville*	
Winton, Eugene Ward	*Appleton*	—41

Second Year

Barrett, Albert Charles	*Chippewa Falls*	
Bradford, Alfred Stearns	*Appleton*	
Buelow, Earl Francis, B.A.	*Waupun*	
Burlingame, Leroy James, B.A.	*Madison*	
Burmeister, Roy Frederick, B.A.	*Gratiot*	
Craig, Charles Wallace	*Kirkwood*	
Curran, Robert Emmet	*Berlin*	
Davis, Dudley Hopkins	*Madison*	
Dinkwitz, Oscar	*Marinette*	
Duncan, Frances Willard	*Green Bay*	
Eberlein, Arthur Herman	*Madison*	
Foley, Leon Francis	*Grand Rapids*	
Genrich, Fred William Jr.	*Wausau*	
Grubb, Kenneth Philip	*Mauston*	
Knudson, Clarence Hannibal	*Eau Claire*	
Levin, Tillie Cecile	*Wausau*	
Lucas, Spencer Alexander	*Sparta*	
Luecker, Elmer William	*Brillion*	
McFetridge, George William B.A.	*Clam Falls*	
Peterson, James Dahle, B.A.	*Minneapolis, Minn.*	
Roberts, David Webster	*Superior*	
Rosenberg, Edwin Leo	*Milwaukee*	
Salen, Herman Ray	*Waukesha*	
Schlabach, Rudolph Mark, B.S.	*La Crosse*	
Soderberg, Clarence Edward	*Barron*	
Sweeney, Charles Victor	*Edgerton*	
Thieme, Cyrus Charles, B.A.	*South Milwaukee*	
Trottman, Joseph Stafford, B.A.	*Milwaukee*	
Walker, Dorothy	*Columbus*	
Waller, Theodore Adolph	*Spring Valley*	
Warner, John Clement, B.S.	*Madison*	
Wurster, Carlyle Barton	*Mazomanie*	—32

First Year

Aebischer, Frederick Charles	*Chilton*	
Baird, Austin Joseph, B.A.	*Waukesha*	
Bauman, George Alexander	*Oshkosh*	
Beckwith, David Van Walker	*Perrinton, Mich.*	
Bernard, John	*Superior*	
Boardman, Newell Stephen, B.A.	*New Richmond*	
Bruegger, Erwin Kehr	*Williston, N. Dak.*	
Cadigan, Charles Patrick	*Superior*	
Crawford, Robert Storey, B.L.	*Madison*	
Crocker, Calvin Otis	*Wausau*	
Dornbrook, Percy Fred	*Menasha*	
Dunn, Lawrence Brewster	*Appleton*	
Egan, T. Frank	*Hurley*	

Elliott, James Rolland	*Apple River, Ill.*	
Ells, Robert Borden	*Rockford, Ill.*	
Feeney, Jerome Joseph, B.A.	*Madison*	
Gaveney, Stanleigh Keyes	*Arcadia*	
Gilbertson, Victor Gilbert	*Eau Claire*	
Hansen, Agner Bert	*Racine*	
Hansen, Lambert A.	*Cashton*	
Hanson, Harold Eugene	*Stoughton*	
Hoyer, Edward Ludwig	*West Bend*	
Immel, Ralph Maxwell	*Blair*	
Jenks, Walter Thomas	*Platteville*	
Keller, Gustave Joseph	*Appleton*	
Krauth, Kurt Hermann	*Hebron, N. Dak.*	
Larson, Lionel Harshiem	*Superior*	
Lennon, George William	*Portage*	
Loverud, Alvin Matthew, B.A.	*Stoughton*	
Lowry, Howard James	*Colfax*	
McCann, Ray Thomas, B.A.	*Edgerton*	
McClure, George Edgar, B.A.	*Fairfield, Va.*	
McCoy, William John, B.A.	*Lancaster*	
Meehan, John Russell, B.A.	*Beloit*	
Moore, Virgil Leven	*Big Timber, Mont.*	
Morsell, Curtis Benedict	*Milwaukee*	
Murphey, Newton Samuel	*Wauwatosa*	
Nesbitt, John Leonard	*Oxford*	
Newton, Orin Isaac	*Sparta*	
Noer, Harold Rolf, B.A.	*Wabeno*	
Perry, Donald Moore	*Black River Falls*	
Pollard, Seth Whitely	*Lannon*	
Potter, Ellis David, B.A.	*Madison*	
Reid, Everis Hayes	*Hurley*	
Roberts, Glenn D.	*Norwalk*	
Rogers, Alfred Moore, B.A.	*Chicago, Ill.*	
Rohr, Charles Davis, B.A.	*Burlington*	
Rosenblum, Harry Maurice	*Terre Haute, Ind.*	
Rossin, Benjamin A.	*Madison*	
Ruckweed, Martin A.	*Milwaukee*	
Ryan, Stanley Martin	*Janesville*	
Smalley, Gwynette Ellsworth, B.A.	*Cuba City*	
Smith, Harold Clare	*Jefferson*	
Smith, Herbert Herald	*Milwaukee*	
Spengler, Silas Llewellyn	*Menasha*	
Steele, Fred Edward	*Melvina*	
Tyrrell, Richard Hanlon	*Lake Geneva*	
Varlez, Emile Reme	*Ghent, Belgium*	
Warzyn, Frank Arthur	*Oakwood*	
Wehmhoff, Rowland Henry	*Burlington*	
Wheeler, Warren Gregg	*Wauwatosa*	
Whelan, Allen	*Mondovi*	—62

Law Specials

Ames, Arthur Burton	*Kenosha*	First Year
Bloodgood, Francis Joseph	*Milwaukee*	First Year

Boardman, Elderkin Carvarth	*Marshalltown, Iowa*	First Year
Darnstaedt, Herman Lester	*Racine*	First Year
Dean, Harry Carpenter	*Glenwood City*	Second Year
Eggen, Harry Julian	*Vienna, S. Dak.*	First Year
Fisher, Walter Stanley	*Minocqua*	First Year
Gay, John Briggs	*Briggsville*	First Year
Geffs, George Stricklett	*Grand Forks, N. Dak.*	First Year
Greenwood, Claude	*Green Bay*	First Year
Johnston, Joseph Henry	*Janesville*	First Year
Keyes, Henry Thomas	*Waldo*	First Year
Landry, Leo John	*Merrill*	Third Year
Langer, Joseph Sylvester	*Kewaunee*	First Year
MacQuaid, John Harrison	*Milwaukee*	Third Year
Mikkelson, Carl Francis	*Arkdale*	First Year
Molzow, Reinhold	*Beaver Dam*	First Year
Monk, Robert William	*Neillsville*	Third Year
O'Laughlin, John Richard	*Madison*	First Year
Robinson, Harry William	*La Crosse*	Third Year
Runge, Herman Carl	*Sheboygan*	First Year
Runkel, Webber Paul	*Oconto*	First Year
Shroeder, Arthur Charles	*Spencer*	First Year
Taggart, Sturges Phoenia	*Lake Geneva*	First Year
Thurwachter, Raleigh Holmes	*Fort Thomas, Ky.*	Third Year
Tollund, Martin Almer	*Blue Mounds*	First Year
Van Pelt, Clayton Forrest	*Fond du Lac*	First Year
Winter, David H.	*Cecil*	First Year
Wolff, Herman William	*Jefferson*	First Year

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Students in Letters and Science Electing Law

Egan, John Marion	*Highland*	
Hall, Lawrence Waterbury	*Madison*	
Hobbs, Merville K.	*Platteville*	
Hyzer, Leland	*Janesville*	
Kearns, Edward P.	*Madison*	
King, Marvin S.	*Arena*	
Kuehl, Frank W.	*Fountain City*	
Peterson, Carl E.	*Menomonie*	
Randolph, John B.	*Lafayette, Ind.*	
Rasmussen, Vilas Lenor	*Ixonia*	
Rudy, Paul P.	*Madison*	
Spohn, George D.	*Janesville*	
Strassburger, Albert E.	*Oshkosh*	
Weisse, Harvey J.	*Sheboygan Falls*	
Welsh, Rodney C.	*Madison*	—15

COLLEGE OF AGRICULTURE

LONG COURSE

Seniors

Albrecht, Harold Taylor	*Merrill*
Anderson, Harry Gerdhart	*Washburn*
Ayres, Paul Kester	*Madison*
Baldwin, Cornelius Hammett	*Tulsa, Okla.*
Ballantine, George Neal	*Bloomington*
Bean, Orin True	*De Soto*
Bethke, Roland Martin	*Elkhart Lake*
Billerbeck, Lawrence Markert	*Milwaukee*
Binney, Thomas Henry	*Madison*
Bowstead, John Edelston	*Milwaukee*
Brandon, William McKinley s e	*Mazomanie*
Brant, Howard Jonathan	*Youngstown, Ohio*
Burr, Allen Russel	*Waterloo*
Caldwell, Thomas Beverly	*New Orleans, La.*
Cartter, Bruce Lanpher	*Black River Falls*
Cass, Daniel Edward	*Rhinelander*
Cole, Harold Harrison	*Marshall*
Conger, Paul Sidney s e	*Prairie du Sac*
Cornish, Harry Bridges	*Fort Atkinson*
Cramer, Herbert Lyle	*Mendota*
Drewry, Charles Bemrose	*Madison*
Drips, William Edward	*Madison*
Dudley, John Edward Jr.	*Madison*
Duffy, Walter Aloysius	*Ashland Junction*
Eke, Paul Axel Clarence	*Bruce*
Emerson, Hugh Robert	*Ashland*
Fardy, Charles Michael	*Mukwonago*
Gibson, Irvin Gray	*Platteville*
Hamerski, John Anton	*Plover*
Hamlin, John Francis	*Lexington, Ky.*
Hayes, William Platt	*Asheville, N. C.*
Heassler, Earl Albert	*Madison*
Heep, Herman Fred	*Buda, Tex.*
Hills, Carroll Cody	*Evanston, Ill.*
Hipke, Gilbert Jacob	*New Holstein*
Hoard, William Dempster Jr.	*Ft. Atkinson*
Hoppe, Paul Erich	*Platteville*
Johnson, Clarence Stanley	*Iron River, Mich.*
Johnstone, Mary Cecilia	*Madison*
Jones, James Hazlitt	*Spring Green*
Julian, Dalven	*Mineral Point*
King, Howard Charles	*Madison*
Koehler, Walter Bernard	*Menomonee Falls*
Larson, George William s e	*Gilmanton*
Leaper, Vern Clayton	*Green Bay*

Lepkovsky, Samuel	*Kenosha*	
Lonsdorf, Arthur Joseph	*Madison*	
Malloy, Edward John s e	*Madison*	
Meacham, Elmer Reynolds	*Madison*	
Megeath, Jessie (Miss)	*New York, N. Y.*	
Meineke, Norman Theodore	*Madison*	
Murat, Sidney Parkman	*Scandinavia*	
Nafziger, Ralph Otto	*Benton Harbor, Mich.*	
Nightingale, William Isaac	*Antigo*	
Olson, Sigurd Ferdinand	*Ashland*	
Pancok, Louis Henry	*St. Louis, Mo.*	
Payton, James Martin Anthony	*Madison*	
Peterson, Ralph Abner	*Ellsworth*	
Pfahler, Joseph Andrew	*Madison*	
Roth, Edward Walter	*Milwaukee*	
Ruhl, Rebecca Louisa	*Clarksburg, W. Va.*	
Ryall, Ernest	*Emigrant, Mont.*	
Sayre, Baxter Page	*Edgerton*	
Schrader, Albert Lee s e	*So. Kaukauna*	
Scott, Cornelius Chapman Jr.	*Madison*	
Sholl, Lloyd Banks	*Milwaukee*	
Smith, Dudley Chase Jr.	*Normal, Ill.*	
Smith, Wyman Sydney	*Brandon*	
Sponholz, Herbert Herman	*Milwaukee*	
Spoor, Francis Perlt	*Berlin*	
Stemmler, William Jr.	*Milwaukee*	
Stokdyk, Ellis Adolph s e	*Sturgeon Bay*	
Stumpf, Harry Adolph	*Menasha*	
Sullivan, Francis Thomas	*Arena*	
Taylor, John Radford	*Long Beach, Cal.*	
Tennis, Gilbert Theodore	*Stanley*	
Uhl, Allan Philip s e	*Galesville*	
Van Hagen, George Ely	*Chicago, Ill.*	
Van Lone, Eldyn Everett	*Jefferson*	
Vennus, Elizabeth Mary	*Madison*	
Wall, Floyd Russell s e	*Highland*	
Walsh, Charles Earl	*Madison*	
Weinfurther, Irving Delwich	*Mishicot*	
Weller, Walter Trowbridge	*Fond du Lac*	
Wendt, Walter Alfred	*Juda*	
Whitney, Francis Edward	*Milwaukee*	
Williams, Guy P.	*Oconto*	
Wellmer, Robert George	*Oshkosh*	—88

Juniors

Allin, Bushrod Warren	*Burleson, Tex.*
Anderson, Daniel Alvin	*Chippewa Falls*
Anderson, Lawrence Wortendyke	*Norwalk, Ohio*
Ballantine, James Rolland	*Bloomington*
Barbo, George Williams	*Deronda*
Barlass, Robert McFarlane	*Janesville*
Black, Archie	*Ft. Atkinson*

Breister, Benjamin Walter	*Fond du Lac*
Breuer, Herman Martin	*Manitowoc*
Brothers, Wellington	*Evanston, Ill.*
Carlson, Theodore Ephraim	*Superior*
Casis, Pedro Antonio	*Bogota, Colombia, South America*
Clapp, George Howard	*Evanston, Ill.*
Clark, Thomas Collier	*Evanston, Ill.*
Cochrane, Jack De Groff	*Portage*
Daane, Edwin Henry	*Sheboygan*
Dayton, Willard Louis	*Rhinelander*
Farrington, Edgar G.	*Mondovi*
Fix, Alois Ashley	*Reedsburg*
Frank, Hobart John	*Neenah*
Frost, Russell Elwell	*Madison*
Gates, Philip Wilde	*Madison*
Gerhardt, Oscar Henry	*Neillsville*
Gerling, Pauline	*St. Louis, Mo.*
Gibson, Percy DeWitt	*Madison*
Goldman, Samuel	*Milwaukee*
Greenfield, Russell Snow	*Superior*
Hanousek, John Joseph	*Antigo*
Hansen, Lars Christian	*Amery*
Hardell, Robert Edwin	*Washington, D. C.*
Heal, Garold William	*Spencer*
Helgren, Fred Joseph s e	*Florence*
Hewett, Walter William	*Arlington, S. Dak.*
Horne, Charles A.	*Stevens Point*
Hovde, Harold Arthur s e	*Washburn*
Howison, William Kelsey	*Menomonie*
Hughes, Idrys Oralend	*Platteville*
Jacka, Warren Stanway	*Mineral Point*
Jackson, Lyman Edson s e	*Madison*
Jaques, James Theodore	*Neillsville*
Jennett, Clarence Bernard	*Streator, Ill.*
Kayser, Paul Adolph	*Madison*
Knoll, Roy Phil	*So. Milwaukee*
Koch, John William	*Milwaukee*
Koch, William Frederick	*West Point, Nebr.*
Krueger, Wabun Clarence	*Sawyer*
Kubier, Julius Edwin s e	*Madison*
Kuckuk, Harold Morse	*Wausau*
Kuehner, Conrad Louis	*Cedarburg*
Lacey, David Robert	*Madison*
Lampman, Clifford Elmer	*Arena*
La Pine, Lewis James	*Oshkosh*
Lindberg, Clifford Harvey	*Soperton*
Lindegren, Carl Clarence	*Rhinelander*
Logie, James Milner	*Wilmette, Ill.*
Luther, Melvin Eddy s e	*Madison*
McIlroy, Glen Wilson	*Oshkosh*
Marshall, Gilbert Cottrell	*Belvidere, Ill.*
Martin, George Wimpfheimer	*New York, N. Y.*

Mathews, Edward Washington	*Wheeling, W. Va.*	
Milum, Vern G.	*Viola*	
Mitchell, William Kenneth	*Lake Beulah*	
Mobley, Basil	*Derwood, Md.*	
Moore, Robert Lyman	*Humbird*	
Morris, Josephine Osgood	*Madison*	
Murphy, Lawrence Edwin	*Green Bay*	
Murray, Harold Thompson Jr.	*Chicago, Ill.*	
Neelen, Robert Bruno	*Milwaukee*	
Newman, George Ingham	*Chicago, Ill.*	
Norgaard, Uffe Jensen	*Tyler, Minn.*	
O'Connell, Francis Joseph	*Montello*	
Omernik, John Thomas	*Birch Island*	
Oosterhuis, Lester John	*Sheboygan Falls*	
Pallett, Earl Manley	*Fennimore*	
Peterson, Alvin S.	*Scandinavia*	
Pfrang, Lloyd L.	*Edgar*	
Pierre, William Henry	*Brussels*	
Pinney, John James	*Sturgeon Bay*	
Post, William Jobse	*Milwaukee*	
Preston, Nathaniel Gifford	*Brodhead*	
Rankin, Eugene Joseph	*Green Bay*	
Reynolds, Donald Wagener	*Sturgeon Bay*	
Rieck, Chester Emil	*Chicago, Ill.*	
Roehm, Linus Theodore	*Ashland*	
Rummel, Walter John	*Rome*	
Runkel, Clay Orson	*Madison*	
Sarles, Agnes Bowen	*Madison*	
Schaenzer, Joseph Peter	*Wabeno*	
Schmidt, George Albert	*Arcadia*	
Smith, Melford Irl	*Fennimore*	
Smith, Robert George	*Frankfort, Ind.*	
Smith, Urban Ulysses	*Fennimore*	
Splittgerber, Albert Henry	*Waterloo*	
Stauss, Walter Charlie	*Thiensville*	
Stearns, Russell Benjamin	*Madison*	
Stein, Walter Philip	*Milwaukee*	
Ten Eyck, Lloyd Ellis	*Brodhead*	
Tinkham, Glenn Dwight s e	*Fairwater*	
Toepfer, George Otto	*Madison*	
Tompkins, Hazel Myrtle	*Madison*	
Travis, Robert Henry	*Chicago, Ill.*	
Vaughn, Stanley Thomas	*Westfield*	
Voskuil, Walter Henry	*Cedar Grove*	
White, Cecil Everett	*Beaver Dam*	
Williams, Arthur Raymond s e	*Wild Rose*	
Witte, John Griffith	*Sheboygan*	
Wolf, Archie Andrew	*West Salem*	
Zaffke, Ben Franklin	*Greenwood*	—108

Sophomores

Ahrens, Harvey Gerald	*Two Rivers*	
Anderson, Carl Roy	*Weyerhauser*	

Baker, Oscar Roland	*St. Croix Falls*
Baldwin, Robert Donald	*Brooklyn*
Barclay, Sloan	*Pittsburgh, Pa.*
Barry, Lawrence Griffith	*Oconomowoc*
Beier, Edwin Adolph	*Rockford, Ill.*
Bentley, Bayard John	*Platteville*
Bloecher, William	*Wittenberg*
Boerner, Alfred Lohren	*Markesan*
Boerner, Robert Louis	*Dallas, Tex.*
Brandt, George Semlow	*Cleveland, Ohio*
Brobst, Merrill Francis	*Mondovi*
Bueno, Fabio da Cunha	*New York, N. Y.*
Burg, Oliver Michael	*Malone*
Capel, James Barzella	*Milwaukee*
Chapman, Homer Dwight	*Darlington*
Cortes, Herman	*Puira, Peru, S. A.*
Crawford, Joseph Forrest	*Beloit*
Davidson, Albert James	*River Falls*
Dunwiddie, Leon Foster	*Delavan*
Ebling, Walter H.	*Richfield*
Edwards, Henry Lloyd	*Cambria*
Edwards, Max J.	*Belleville*
English, Donald John	*Wyocena*
Evans, Edward Clark	*Streator, Ill.*
Frazier, Harry Stucky	*Louisville, Ky.*
French, Tilden Russell	*Cincinnati, Ohio*
Gahr, Joseph Abraham	*Madison*
Grant, Herbert Emerson	*Milwaukee*
Gray, Wellsley Dobson	*Racine*
Hammen, Edwin George	*Ripon*
Harris, Forest Datus	*Cuba City*
Heller, Herman George	*Boscobel*
Helwig, Karl Lyle	*Danburg*
Holzbog, Walter Charles	*Wauwatosa*
Hovey, Rex Schriener	*Mondovi*
Hsu, Chen-Chow	*Wong-yen, Checkiang, China*
Hull, Roy Beins	*Big Cabin, Okla.*
Icks, Karl Rudolph	*Green Bay*
Jacobi, Gustav Reinhold	*Grand Forks, N. Dak.*
Jones, Arthur Lyle	*Madison*
Juday, Dean James	*Rhinelander*
Katz, Henry Joseph	*Milwaukee*
Kleinheinz, Frank Alexander	*Madison*
Klosterman, Adolph Henry	*Shawano*
Knutson, Arthur Magnus	*Sawyer*
Kuehn, Edwin Frederick William	*Burnett*
Lindow, Carl Warning	*Elkhorn*
Link, Karl Paul	*La Porte, Ind.*
Lu, Hsieh Chun	*Wusih, China*
*Lurvey, Harold Franklin	*Oakfield*
McConnell, Clark	*Oshkosh*

*Died February 27, 1920.

McMahon, Abraham Lincoln	*Madison*
Magistad, Oscar Conrad	*Forestville*
Mahorney, Florence Hathaway	*Crawfordsville, Ind.*
Mallow, Lewis Campbell	*Madison*
de Mendonca, Ruy Prado	*New York, N. Y.*
Metcalf, Harold Harris	*Merrill*
Opgenorth, Louis Theodore	*Kewaskum*
Pabst, Frederik August	*Oconomowoc*
Peacock, Bennie Noyes	*Big Bend*
Petersen, Frank Roy	*Berlin*
Petersen, Ralph Ernest	*Chicago, Ill.*
Portman, Leo James	*Ladysmith*
Potts, Truman Robert	*Waupaca*
Powell, Hector Menelaus	*Island Lake*
Price, Edward Ernest	*Mauston*
Ramsay, Wayne	*Madison*
Rewey, Oliver Wendell	*Rewey*
Ruff, Clarence Amil	*Gilmanton*
Ruhsam, Erwin Henry	*New London*
Russell, Eldon Babcock	*Madison*
Schernecker, Edward George	*Madison*
Schimmel, Harold William	*Milwaukee*
Schueler, Milford William	*Fredonia*
Schwartzberg, Ben	*Chicago, Ill.*
Sears, Verlyn Fred	*Neillsville*
Sharp, Manly	*Evansville*
Shreve, Raymond Gerald	*Viroqua*
Slocum, Burl Alva	*Eau Claire*
Sly, Keith Chester	*Sechlerville*
Strommen, Deloris Alfred	*Cambridge*
Sutton, Merritt Leofwin	*Clinton, Iowa*
Taylor, Lewis Walter	*Milwaukee*
Taylor, Rush Urban	*Oshkosh*
Tibbits, John Wilson	*Melrose*
Vanderhoof, Harold Alexander	*Knapp*
Van der Riet, Clement Merwyn	*Stellenbach, S. Africa*
Vidal, José Manuel	*Ponce, Porto Rico*
Virchow, Edward	*Waterloo*
Weavers, Harvey	*Cedar Grove*
Weinman, Isaac	*New York, N. Y.*
Wells, William Alexander	*River Falls*
Werner, George McKinley	*New London*
Wilson, Edward Malcolm	*Bayfield*
Wilson, Elmer Edwin	*Trenton, Ky.*
Woodman, Catherine Tomlinson	*Wilmington, Del.* —98

Freshmen

Albert, Willard Benjamin	*Horicon*
Albertz, Arthur Otto	*Watertown*
Amborn, Lewis William	*Genoa*
Arbuthnot, George Larkin	*Janesville*
Austin, Fogo Reed	*Gillingham*
Averill, Charles Noble	*Menominee*

Bailey, David James	*Delavan, Ill.*
Behm, Carl Frederick	*Omro*
Bibelhausen, Roy Joseph	*Shawano*
Blahnik, Albert Roy	*Algoma*
Blodgett, Robert Oliver	*St. Paul, Minn.*
Bonsack, Clarence Herman	*Onalaska*
Brace, Donald Ochsner	*Lone Rock*
Bradt, Leonard	*Eureka*
Brandt, August Anthony	*Medford*
Bridenhagen, Clement William	*Sturgeon Bay*
Briggs, Ralph Harmon	*Hammond*
Broderick, Robert Ernest	*Huntingburg, Ind.*
Brown, Herbert Joseph	*Monroe*
Brown, Maynard Wilson	*Great Falls, Mont.*
Burke, William Henry	*Timber Lake, S. Dak.*
Byrns, Elmer Dennis	*Madison*
Castner, Russell	*Loyal*
Cheu, Ned	*Pueblo, Colo.*
Clark, Farnham	*Menomonie*
Comstock, Gilbert William	*Oshkosh*
Crosby, George Sumner	*Hampton, Va.*
Daniels, Thomas Richard	*Weyerhauser*
Dartnell, Thomas Lozier	*East Orange, N. J.*
Dickson, Allan David	*Moxee City, Wash.*
Dohrman, Herbert Carl G.	*Mayville*
Edge, Mac Henderson	*Newton, Iowa*
Ellis, Lippert Spring	*Bridgeport, Mich.*
Elmslie, Wallace Parker	*Milwaukee*
Elvehjem, Conrad Arnold	*Macfarland*
Faulkin, John Wesley	*Delavan, Ill.*
Faville, Harry Wheaton	*Lake Mills*
Finley, William Clark	*Madison*
Fisher, Edwin S. W.	*Janesville*
Frederick, William Henry	*Milwaukee*
Fritschel, Roland Godfrey	*Milwaukee*
Geil, Philip Herbert	*Milwaukee*
Geilfuss, Harvey William	*Milwaukee*
Glascock, Eleanor Elizabeth	*Upperville, Va.*
Grunow, Frederic Henry	*Rewey*
Haines, Oliver Thomas	*Sawyer*
Hamley, Gordon	*Ripon*
Hansen, Carl Andrea	*Amery*
Harvey, M. J.	*Madison*
Haskell, John Paul	*Ludington, Mich.*
Hathorn, John Arthur	*Menomonie*
Hocking, George Drew	*Waupaca*
Holden, Ellsworth Burnett	*Chicago, Ill.*
Holden, Helen Elizabeth	*Chicago, Ill.*
Horn, Alfred Oswald	*Withee*
Huff, Whitford Lynn	*Boscobel*
Ingebritsen, Carroll Raymond	*Madison*
Jamison, Howard Elmer	*Appleton*
Jaquith, Clifford Leroy	*Green Lake*

Jehn, Howard Dean	*Madison*
Jenny, Gerald Oscar	*Milwaukee*
Johnson, Gustavus Emil	*Boyceville*
Johnson, Tracy Worden	*Waupaca*
Johnston, Victor Anges	*Grand Forks, N. Dak.*
Jones, Leslie D.	*South Wayne*
Kazmierczak, Victor Charles	*Laona*
Kellogg, Lawrence Otis	*Racine*
Kennelly, Joseph Thomas	*Hartford*
Kletzein, Seymour	*New Holstein*
Koenig, Stanley Milton	*Washburn*
Koss, Lewis August	*Casco*
Kramer, Herbert Louis	*Ft. Atkinson*
Kuhe, David Birmingham	*Hubbard Woods, Ill.*
Langen, Bertram Byron	*Cincinnati, Ohio*
Levitz, Herman Hyman	*Wauwatosa*
Lippett, Minnie Henderson	*Madison*
McKay, Frank Dowling	*Marinette*
McMahon, Ella Kathryn	*Madison*
Marvin, George Eugene	*West Allis*
Meyer, Werner Paul	*Cedarburg*
Mielke, Elmer Henry	*Brillion*
Millard, Allen La Mont	*New London*
Millard, George Alexander	*New London*
Mills, Ashley Vail	*Lake Mills*
Mitchel, Roger David	*Beloit*
Morson, Terrill Frederick	*Antigo*
Mueller, Walter Josef	*Milwaukee*
Munkwitz, Richard Charles	*Edgar*
Murwin, Herbert Franklin	*Edgerton*
Newman, Harry Neil	*Poynette*
Nimlos, Johnson Montgomery	*Madison*
Nisbet, John Cochrane	*Richland Center*
Norcross, Harry Cecil	*Brimfield, Mass.*
O'Connor, George McGregor	*Hancock*
Oechsner, Rudolph Arthur	*Oakfield*
Oertel, Everett	*Prairie du Sac*
O'Konski, Edward Joseph	*Kewaunee*
Orr, Ray Eugene	*South Wayne*
Osius, William Frederick	*Plymouth*
Owen, Silas Elmer	*Randolph*
Pabst, Rudolph	*Oconomowoc*
Pan, Chia Yuan	*Szechuan, China*
Parmele, Harris Barnum	*Rockford, Ill.*
Perky, James Barney	*Oklahoma City, Okla.*
Peterson, Lawrence Ralph	*Curtiss*
Platten, Arthur John	*Hortonville*
Poindexter, Robert Gaylen	*Cynthiana, Ky.*
Pribyl, George	*Stangelville*
Prinz, Hugo Walter	*Mayville*
Reeve, Edwin Allworth	*Western Springs, Ill.*
Reget, Walter John	*La Crosse*
Richards, Claire Thomas	*Oregon*

Rogers, Carl Ransom	*Lisle, Ill.*
Rogers, Howard Everett	*Hager City*
Russell, Arthur Boronoa	*Hartford*
Sato, Atsuchi	*Maigamachi, Japan*
Sayre, Kitchell Phelps	*Edgerton*
Schroeder, Edwin E.	*Marshfield*
Schuetz, Walter Edwin	*Milwaukee*
Shlimovitz, Nathan Francis	*Sparta*
Smith, Edward Magruder	*Chicago, Ill.*
Sprague, Ralph Jennings	*Eagle*
Stevens, Theodore	*Viroqua*
Stiles, Hugh Raymond	*Lake Mills*
Stenchfield, Roswell Herrick	*Waupaca*
Stokstad, Olaf Lawrence	*Edgerton*
Stream, John Joseph	*Chicago, Ill.*
Strommen, Jorgen Arthur	*Cambridge*
Strutt, Harold Frost	*Ridgeway*
Stucken, George Richard	*Racine*
Stueber, Julius John Herman	*Juneau*
Suda, George Matthew	*Muscoda*
Swartzlow, Carl Robert	*Sparta*
Syme, David Hewitt	*Glenwood City*
Taylor, Lloyd Raymond	*Rhinelander*
Templin, Edward Henry	*Baraboo*
Thomas, Donald	*Black River Falls*
Tolman, Bronson Dick	*Belfry, Mont.*
Volk, Norman James	*Oconto Falls*
Voltz, Phillip William	*Madison*
Wallrich, Marshall John	*Shawano*
Weber, Guido Leo	*Algoma*
Weed, Alfred	*Chicago, Ill.*
West, Lyle Wayland	*Madison*
Wileden, Arthur Frederic	*Templeton*
Wisnicky, Walter	*Kewaunee*
Wolfe, Sheldon Redlin	*Madison*
Young, Ralph Edward	*Galesville*
Young, Vilas Devald	*Galesville* —149

MIDDLE COURSE

Second Year

Abell, George Walworth	*Clinton Jct.*
Bauer, Melber Julius	*Cincinnati, Ohio*
Bean, Walter David	*DeSoto*
Browne, Edward Leland	*Waupaca*
Burgess, Ernest Clarence	*Evanston, Ill.*
Carmody, Arthur Michael s e	*Mt. Hope*
Casperson, Helmer Cornelius s e	*Baldwin*
Cristy, Jay Walter	*Waupaca*
Duffin, Laurel Archer	*Whitewater*
Gibson, Edward Harold	*Adams*
Jones, David Carodoc	*Cambria*
Kolb, Edwin Siegle	*Berlin*

Kull, Adelbert Clarence	*Lake Geneva*	
Lamb, Stuart James	*Janesville*	
Last, John August	*Watertown*	
Lewis, John W.	*Dodgeville*	
Lupton, Fredric Grant	*Hartford City, Ind.*	
Massey, George Frederick, Jr.	*Walworth*	
Miller, Emil Alfred	*Superior*	
Monteith, Robert	*Madison*	
Napiecinski, Angeline Rose	*Two Rivers*	
Omdalen, Perry Thomas	*Rice Lake*	
Palmer, Otis Wilcox	*Mauston*	
Peacock, Carson Ellis	*Fennimore*	
Sayre, Ruth Ann	*Hampton, Va.*	
Simonson, Archie Fletcher	*St. Croix Falls*	
Smith, Albert Fulton	*Manitowoc*	
Smith, Charles Marion	*Macon, Ga.*	
Woelffer, Elmer August	*Watertown*	
Woline, Ernst Wilhelm	*Cumberland*	—30

First Year

Amundson, George	*Rio*
Asperstrand, Carl John	*Amery*
Austin, Arthur Edwin	*Lancaster*
Austin, Roger Russell	*Lancaster*
Backhaus, Elroy Paul	*Kewaskum*
Baker, Albert Gawne	*Hamilton, Ohio*
Behm, Carl August	*Princeton*
Boe, Amos	*Greenwood*
Bollinger, Paul E.	*Sharon*
Carlin, Fisk Weld	*Palmyra*
Clift, Delbert Laal	*Viola*
Harrison, Leonard Arthur	*Blue Island, Ill.*
Hegeman, Leland Brown	*Wilmot*
Heggestad, Ernest	*Hollandale*
Heller, Leonard Herbert	*Excelsior, Minn.*
Hembre, Ingvald Oscar	*Greenwood*
Hill, Evan Victor	*La Farge*
Hines, Boyd	*Cumberland*
Holden, Charles Edward	*Burkhardt*
Hubin, Walter Hugo	*Shell Lake*
Jones, Lawrence Eaton	*Black River Falls*
Keenan, Sidney Fox	*Fond du Lac*
Kolb, Carl Arthur	*Berlin*
Legrid, Lester Ira	*Deer Park*
Lindow, Edmund Philipp	*Plymouth*
Livingston, Kenneth Edward	*Livingston*
McConnell, Kenneth	*Sparta*
McCoy, Robert Charles	*Sparta*
McDonald, Hunter Jr.	*Nashville, Tenn.*
McGill, Charles Alexander	*Templeton*
Martin, James Gerald	*Aurora, Ill.*
Martin, Noble Baily	*Hamilton, N. Dak.*

Mayville, Reynolds Sylvester	*Shawano*	
Miller, Floyd Charles	*Cumberland*	
Mueller, Armand Erwin	*Milwaukee*	
Nadelhoffer, Carleton Frederick	*Downers Grove, Ill.*	
Neilson, William Davis	*N. Milwaukee*	
Nieman, Edwin John	*Cedarburg*	
Oppel, William Wells	*Madison*	
Peterson, William James	*Menomonie*	
Porter, Edwin Hobart	*Wauzeka*	
Pratt, Orman Henry	*Waterloo*	
Roetzer, Alfred George	*Milwaukee*	
Rose, Russell Ball	*Pueblo, Colo.*	
Ruchti, Werner Fritz Otto	*Madison*	
Ruedy, John Emil	*Bangor*	
Sagen, Harry Edwin	*Washburn*	
Shogren, Cyril Kirk	*Superior*	
Skaife, Charles William	*Livingston*	
Snyder, George Percival	*Clinton*	
Sousek, Anthony Stephen	*Leopolis*	
Sprague, Stuart Ernest	*Vermontville, Mich.*	
Steves, Vincent Clark	*Menomonie*	
Strauss, Herbert Ranger	*Chicago, Ill.*	
Ternes, Albert Marcelles	*Ridgeway*	
Thomas, Robert Cole	*Oak Park, Ill.*	
Thorsness, Willard Chester	*Cumberland*	
Viste, Melvin	*Sawyer*	
Wachlin, Frank Emil	*Wonewoc*	
Wade, Gerald Charles	*Wauwatosa*	
Webb, George William	*Poynette*	
Weber, Clarence Walter	*Forestville*	
Whiting, Charles Amos	*McHenry, Ill.*	
Whitson, Kenneth Fitch	*Madison*	
Williams, Lewis	*Bristol*	
Yates, James Edward	*Huntly, Va.*	—66

COURSE IN HOME ECONOMICS

Seniors

Baker, Elnora	*Rewey*	
Baldwin, Marian Edith	*Lena, Ill.*	
Beardsley, Olive Maude s e	*Chicago, Ill.*	
Bird, Mary Rebecca s e	*Madison*	
Bogan, Eleanore Mary s e	*Detroit, Mich.*	
Braun, Anna Gertrude	*Wahpeton, N. Dak.*	
Burnam, Anita s e	*Guthrie, Ky.*	
Cleveland, Catherine Eloise	*Kensington, Md.*	
Coates, Carol Matilda s e	*Milwaukee*	
Coffman, Ruth Eugene s e	*Pana, Ill.*	
Couton, Freeda Marguerite	*Forsyth, Mont.*	
Dernehl, Emma Martha	*Milwaukee*	
Dickson, Margaret Mary s e	*Indiana Harbor, Ind.*	
Elliot, Mary Katherine s e	*Superior*	
Feeney, Regina Mary	*Madison*	

Fitch, Elizabeth May	*Green Lake*
Fricke, Ethel s e	*St. Louis, Mo.*
Gowdy, Leta Marie s e	*Tabor, Iowa*
Harman, Helen Margaret s e	*Madison*
Heisig, Gertrude Mathilda s e	*Madison*
Helberg, Guinoir	*Madison*
Hottel, Agnes Elizabeth	*Norwalk, Ohio*
Hussa, Mildred Marie s e	*La Crosse*
Hutton, Mary Kinlock s e	*Madison*
Johnson, Wilma Anna	*Detroit, Mich.*
Karlen, Marie Margaret	*Monroe*
Kimball, Marian	*Glenco, Ill.*
King, Ruth Poland	*Madison*
Kirk, Alice Jeanette s e	*Madison*
Krueger, Dorothy Adelaide s e	*Madison*
Kundert, Elizabeth	*Monroe*
Lamb, Cleo Eleanor s e	*Ridott, Ill.*
Leavitt, Hazel Ruth s e	*Beloit*
McLay, Christina Menzies s e	*Janesville*
McLay, Isabel Zaill s e	*Janesville*
McNulty, Sada Agatha s e	*Spring Green*
Malm, Frances Eleanor	*Norfolk, Nebr.*
Miller, Ada Elizabeth s e	*Madison*
Patton, Stella Trout	*Madison*
Perkins, Helen Hope	*Princeton, Ill.*
Piper, Ruth Hausche	*Racine*
Rowley, Hyacinth	*Lewistown, Mont.*
Schernecker, Mae Eleanor	*Madison*
Schroeder, Meta Louise	*Wausau*
Shepherd, Rosalie	*Springfield, Ill.*
Skinner, Vera Jane	*Tomah*
Slininger, Gladys Lucille s e	*Des Moines, Iowa*
Smith, Helen s e	*Aurora, Ill.*
Stackhouse, Kathryn Frances	*Indianapolis, Ind.*
Stauffer, Katherine Baldwin	*St. Louis, Mo.*
Tamblingson, Wava Beth s e	*Ft. Atkinson*
Tenny, Ellen Mae s e	*Madison*
Tucker, Verna May	*Wilmette, Ill.*
Vail, Edna Cora	*Springfield, Ill.*
Van Ermen, Marie Antoinette	*Green Bay*
Wheelock, Margaret s e	*Wilmette, Ill.*
White, Myrtle Maja s e	*Wauwatosa*
Wood, Dorothy Belle	*Milwaukee*
Woodruff, Margaret s e	*Mason City, Iowa*
Woolery, Lucy Castle	*Pasadena, Cal.*
Wuerpel, Lois s e	*St. Louis, Mo.*
Young, Frances Margaret	*Grand Rapids, Mich.* —62

Juniors

Ackley, Florence Davenport	*Beloit*
Allison, Mabel Evelyn	*Cleveland, Ohio*
Bemis, Grace Mariette s e	*Antigo*
Bruhnke, Beatrice Bernice s e	*Milwaukee*

Burke, Esther Marie	*Wesley, Iowa*
Cappon, Christine H.	*Holland, Mich.*
Carr, Frances Elizabeth s e	*Grand Rapids, Mich.*
Chambers, Margaret Jane	*Steubenville, Ohio*
Chappell, Alice Myrl	*Galesville*
Chichester, Mildred Elizabeth s e	*Great Falls, Mont.*
Coulson, Ruth Antoinette s e	*St. Louis, Mo.*
Cragwall, Sarah Elizabeth	*Crawfordsville, Ind.*
Dietz, Dorothy Louise s e	*Chicago, Ill.*
Donaldson, Marjory Brown	*Chicago, Ill.*
Farnam, Mary	*La Crosse*
Finnerud, Florence	*Watertown, S. Dak.*
Foote, Josephine Agnes	*Hartford*
Forrest, Nellie s e	*Poynette*
Goessling, Evelyn Viola	*St. Louis, Mo.*
Grady, Mary Lucile	*Maroa, Ill.*
Haynes, Edith	*Emporia, Kan.*
Hill, Stella Marjorie s e	*Weyauwega*
Huffman, Edna Louise s e	*Richland Center*
Johnston, Ola Esther	*Paducah, Ky.*
Jones, Dorothy s e	*Black River Falls*
Kowalke, Gertrude Roth s e	*Sheboygan*
Krieger, Violet Evelyn s e	*Britton, S. Dak.*
Lees, Katherine Elna s e	*Milwaukee*
Leitzell, Katheryn Rebecca s e	*Benton*
Ligare, Elizabeth Frances s e	*River Forest, Ill.*
Loomer, Gretchen Lana s e	*Delavan*
Macfadden, Margaret Louise	*Fargo, N. Dak.*
Marty, Louise Margaretha	*Brodhead*
Mathie, Elizabeth Katherine	*Wausau*
Mereness, Alice Hazel s e	*Madison*
Metz, Marie Antonette s e	*Madison*
Miller, Ada Lucretia	*Madison*
Moss, Pearl Elizabeth	*Milwaukee*
Murray, Helen Hyacentha s e	*Madison*
O'Leary, Mary Catherine s e	*Appleton*
Ormsby, Helen	*Black River Falls*
Pattee, Helen Alden	*Pueblo, Colo.*
Pearson, Helen Elizabeth s e	*Bloomington*
Pfeifer, Ruth Adaline	*Columbus, Kan.*
Pine, Edith	*River Falls, Ill.*
Randolph, Dorothy	*Huntsville, Tex.*
Robertson, Esther Mildred s e	*Rio*
Roth, Alma Marie	*Fowler, Ind.*
Ryan, Catherine Elizabeth	*Ft. Dodge, Iowa*
Sawyer, Marion Florence	*Muskegon, Mich.*
Schmidt, Erna-Marie	*West Allis*
Scofield, Harriet Louise s e	*La Crosse*
*Sears, Leota Belle	*Chillicothe, Ohio*
Seeber, Vivien Adelaide s e	*Houghton, Mich.*
Sell, Elsie Josephine s e	*Madison*

*Died January 29, 1920

Shearer, Mary Josephine	*Winfield, Iowa*	
Sherman, Helen Julia s e	*Appleton*	
Strock, Marjorie s e	*Des Moines, Iowa*	
Van Brimer, Elizabeth Leah	*Pueblo, Colo.*	
Varnum, Marion Kate	*Madison*	
Walker, Annette Louise	*Milton*	
Weber, Elizabeth Leonore s e	*Keokuk, Iowa*	
Weeks, Christina Mary	*Chilton*	
Weiss, Minnie	*Harbor Springs, Mich.*	
West, Dorothy Grace	*Madison*	
White, Myrna s e	*Madison*	
Wilson, Gladys Shepard	*Cincinnati, Ohio*	
Wilson, Jessie s e	*Burlington*	
Yeomans, Clara Louise s e	*Minot, N. Dak.*	—69

Sophomores

Ausman, Mary Rosa	*Albertville*	
Babcock, Elizabeth	*Island, Ill.*	
Bronson, Hazel Adline	*La Crosse*	
Butler, Margaret	*Berwyn, Ill.*	
Campbell, Lucille Grace	*Madison*	
Cheetham, Helen Cowan	*Milwaukee*	
Coyle, Margaret Munson	*Ridgewood, N. J.*	
Crary, Alice	*Boone, Iowa*	
Cretney, Mildred Emily	*Madison*	
Delbridge, Marjorie Anne	*Oconto Falls*	
Fauerbach, Edith Gretchen	*Madison*	
Francis, Sarah G.	*Madison*	
Frazee, Lillian Mildred	*Moweaqua, Ill.*	
Gunther, Irene Louise	*Chicago, Ill.*	
Hanscom, Louise	*St. Cloud, Minn.*	
Heise, Esther Bertha	*Green Bay*	
Heisig, Jennie Olive	*Madison*	
Hess, Elsie Elizabeth	*Madison*	
Hoch, Mildred Lillian	*Huntington, Ind.*	
Iliff, Ethel Rose	*Alma Center*	
Jaquith, Ellen Jane	*Green Lake*	
Johnson, Helen Augusta	*Oak Park, Ill.*	
Jung, Hildegarde Emma	*Sheboygan*	
Keenan, Matilda Elizabeth	*Fond du Lac*	
Kersten, Luella Anne	*Hartford*	
Kingston, Olive	*Mountain*	
Koetter, Elinor Ann	*Seattle, Wash.*	
Kopietz, Teresa Marie	*Omaha, Nebr.*	
Kresge, Violet Agnes	*Green Bay*	
Kroncke, Dorothea	*Madison*	
Kuehn, Anita Emma	*Milwaukee*	
Maag, Viola Anna	*Milwaukee*	
Maas, Carmen Valerie	*Houghton, Mich.*	
Meiselwitz, Gertrude Elizabeth	*Keil*	
Oestreich, Lorena Elizabeth	*New London*	
Parkinson, Caryl McCoy	*Madison*	
Pope, Margaret	*Chicago Ill.*	

Raymond, Lois Wasson	*Troy, N. Y.*	
Roesch, Wilma	*Arcadia*	
Russell, Mary Bangel	*Creston, Iowa*	
Schlieker, Florence Isabel	*East Chicago, Ill.*	
Schoenfeld, Geneva	*Edgerton*	
Seaver, Leona Gertrude	*Clinton*	
Shoninger, Dorothy Viola	*Chicago, Ill.*	
Six, Marjorie	*Logansport, Ind.*	
Smiley, Mary	*Madison*	
Smith, Florence Marie	*Milwaukee*	
Taylor, Ardys Marie	*Madison*	
Thrush, Marion Virginia	*River Falls*	
Tyler, Vera Vivian	*Mellen*	
Varney, Clara Elsie	*Delavan, Ill.*	
Waffle, Naomi Emily	*Fond du Lac*	
West, Lucille Myrtle	*Wilmette, Ill.*	
Whelan, Dorothy Elizabeth	*Springfield, Ill.*	
White, Helen Virginia	*Madison*	
Williams, Margaret Ann	*Bristol*	
Williams, Margaret Elizabeth	*Berlin*	
Winckler, Salome	*Madison*	—58

Freshmen

Adams, Marjorie Helen	*Oak Park, Ill.*	
Berg, Edith Henning	*Ashland*	
Biddick, Nellie Amelia	*Livingston*	
Black, Edith Bernice	*Sioux City, Iowa*	
Blunt, Bernice Irene	*Madison*	
Bodenstein, Pauline Gustorf	*Madison*	
Bremer, Charlotte Sophia	*Madison*	
Brosius, Faythe	*Appleton*	
Byrns, Elizabeth Irene	*Madison*	
Cartwright, Mary Lenore	*Madison*	
Casey, Mary Gertrude	*Evansville*	
Chase, Marjorie Myrtle	*Madison*	
Crane, Edith Lucile	*Burlington*	
Crane, Marion Louise	*Williams Bay*	
Cretney, Mabel Lucile	*Madison*	
Diefendorf, Alice Frances	*Madison*	
Dietrich, Kathleen Sarah	*Pekin, Ill.*	
Doran, Kathleen Cornelia	*Oconto*	
Downie, Mildred M.	*Madison*	
Downs, Evelyn Elizabeth	*Mt. Vernon, S. Dak.*	
Ellwood, Vera Brown	*Madison*	
Fix, Margaret Dorothea	*Madison*	
Freeman, Gladys Dina	*Chicago, Ill.*	
Gordon, Harriet McDermott	*Darlington*	
Griffey, Bernice	*Janesville*	
Hall, Ella Aileen	*Winnipeg, Man., Canada*	
Hamilton, Aileen	*Louisville, Ky.*	
Hasenbalg, Margaret Elizabeth	*Portage*	
Hennecke, Elsbeth	*Milwaukee*	
Hilberts, Esther Elizabeth	*Jefferson*	

Hodgson, Mary Elsie	*Mazomanie*	
Hodgson, Ruth Elsie	*Mazomanie*	
Hoiby, Cora Margrethe	*Madison*	
Jewett, Carol Olive	*Plymouth*	
Johnson, Marie Josephine	*Oak Park, Ill.*	
Keator, Helen Lillian	*Belvidere, Ill.*	
Klenert, Florence Suzanne	*Portage*	
Knilans, Nelle Winnifred	*Ft. Atkinson*	
Lingenfelder, Julia Anna	*Norfolk, Nebr.*	
*McAleer, Verna Alma	*Hammond, Ind.*	
Mainland, Helen Laura	*Kenosha*	
Marlewski, Sylvia Veronica	*Milwaukee*	
Marshall, Beatrice Clare	*Milwaukee*	
Metz, Ethel Agnes	*Madison*	
Mitchell, Dorothy Matilda	*Hillsboro*	
Moon, Emily Jane	*Crawfordsville, Ind.*	
Myrland, Mina Mercedes	*Madison*	
O'Connor, Annetta Mary	*Hartford*	
Olander, Elva Amanda	*Rockford, Ill.*	
Opie, Margaret Abigail	*Warren, Ill.*	
Osthoff, Lois Therese	*Baraboo*	
Peters, Mary Adeline	*Birmingham, Ala.*	
Prine, Catherine Mary	*Cummings, Iowa*	
Purcell, Mary Elizabeth	*Madison*	
Rieck, Mildred Aileen	*Chicago, Ill.*	
Saunders, Kathleen Alma	*Madison*	
Schmolze, Dorothy	*Chicago, Ill.*	
Shultz, Carrie Viola	*Pierre, S. Dak.*	
Slater, Sarah Elizabeth	*Ferryville*	
Straubel, Minnie Octavia	*Green Bay*	
Suess, Elizabeth J.	*Hudson*	
Suess, Henriette Adelaide	*Negaunee, Mich.*	
Thompson, Gladys Elmira	*Rio*	
Thompson, Louise	*Madison*	
Thompson, Marion Rosetta	*Madison*	
Thuering, Viola Lillian	*Milwaukee*	
Williams, Amy	*Postville, Iowa*	
Wismer, Sarah Emma	*Britton, S. Dak.*	
Wright, Isabel Lucile	*Webster Groves, Mo.*	—69

Adult Specials

Long Course

Anderson, John Arlington	*Racine*	Senior
Banks, Robert Lenox	*Superior*	Freshman
Dillon, Fred Griffian	*Mondovi*	Freshman
Duncan, Robert MacQuiny	*Green Bay*	Freshman
Gaffney, Edward James	*Madison*	Senior
Hanson, Henry Lawrence	*Holmen*	Freshman
Hatzigian, Arkashes Ara	*Arabkir, Armenia*	Freshman
Hesse, Robert Louis	*Hartland*	Freshman

*Died February 2, 1920.

Hrudka, Ladimir Milos	*Manitowoc*	Freshman
Kanitz, Raymond William	*Milwaukee*	Freshman
Kelly, James Edward	*Madison*	Freshman
Maldaner, Theodore	*Watertown*	Sophomore
Marty, Fred J.	*Monroe*	Freshman
Nelson, August	*Madison*	Senior
Rowley, Lloyd M.	*Evansville*	Freshman
Schlotthauer, Carl Frank	*Madison*	Freshman
Stader, Otto	*Franklinville, N. Y.*	Senior
Tiedjens, Victor Alphons	*Marinette*	Junior
Watkins, Ortencia Sophia	*Aurora, Ill.*	Freshman
West, Roy Foster	*Madison*	Freshman

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Middle Course

Bacchus, Thomas Walley	*Wilmington, Del.*	First Year
Droegkamp, William McKinley	*Milwaukee*	First Year
Dyson, Frederick Eckhardt	*Viroqua*	First Year
Elfner, Hugo Anton	*Manitowoc*	First Year
Farr, Lloyd Albert	*Greeley, Colo.*	First Year
Hartman, William Albert	*Wauwatosa*	First Year
Holmes, Arthur Curtis	*Inkster, N. Dak.*	First Year
Hopkins, Arthur Main	*Oak Park, Ill.*	First Year
Hutchinson, Harold Leslie	*La Moure, N. Dak.*	First Year
Murdock, John Lorrain	*Sault Ste Marie, Mich.*	First Year
Rowe, Ralph Myron	*Scandinavia*	First Year
Shier, Harold Bernard	*Pulaski*	First Year

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HOME ECONOMICS

Bruce, Katherine Cook	*Madison*	Freshman
Hamilton, Frieda Harms	*Rock Island, Ill.*	Freshman
Parkinson, Myra s e	*Madison*	Junior

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WISCONSIN LIBRARY SCHOOL

Alford, Eva	*Duluth, Minn.*
Anderson, Amy M.	*Paducah, Ky.*
Cross, Mabel E.	*Vinita, Okla.*
Daland, Stephanie	*Milton*
Dodd, Florence	*Ashland*
Ewing, Marion	*Janesville*
Farrand, Isabel D.	*Houghton, Mich.*
Flack, Charles R.	*Edmonton, Alberta, Canada*
Froggatt, Lillian M.	*Albertville*
Gipp, Dorothy M.	*Laurium, Mich.*
Haberman, Hazel	*Jefferson*
Holden, Edna M.	*Logansport, Ind.*
Kolbeck, Lorine	*Manitowoc*
Landt, Rena	*Kilbourn*
Lodwick, Rowena N.	*Platteville*
McQuaid, Mary C.	*Fairbury, Nebr.*
Macko, Charles J.	*Chicago, Ill.*

Morgan, Leone A.	*Rhinelander*	
Muckel, Lena	*Bloomington, Nebr.*	
Niemi, Signa	*Eveleth, Minn.*	
Niemie, Mae E.	*Superior*	
Nyhuus, Mona	*Christiana, Norway*	
Pine, Elsie H.	*Spearville, Kans.*	
Powell, Lucia F.	*Paducah, Ky.*	
Rutzen, Adeleid R.	*Bay City, Mich.*	
Sander, Esther A.	*Fond du Lac*	
Smith, Katherine	*Two Rivers*	
Tanke, Eda	*Pendleton, Ind.*	—28

JOINT COURSE

Bernardo, Gabriel A.	*Malalos, Bulacan, P. I.*	
Bruns, Eleanor C.	*Lake Mills*	
Hinners, Virginia M.	*Milwaukee*	
Liebermann, Lucile S.	*Watertown*	
Munda, Jose M.	*Manila, P. I.*	
Oberheim, Grace M.	*Mount Carroll, Ill.*	
Paulson, Thelma L.	*Evansville*	
Perez, Cirilo B.	*Bulacan, P. I.*	
Rodriguez, Eulogio B.	*Manila, P. I.*	—9

STUDENTS RECEIVING TRAINING UNDER THE DIRECTION OF THE FEDERAL BOARD FOR VOCATIONAL EDUCATION

Apker, James W.	*Wonewoc*	Agr.
Bailey, Harry H.	*Madison*	Engr.
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Bartlett, Fred A.	*Oshkosh*	Agr.
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Berlinski, Carl O.	*Ossineke, Mich.*	Agr.
Bien, Earl H.	*Arkansaw*	Agr.
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Dohlby, George	*La Crosse*	Agr.
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Du Mez, Perry	*Wauwatosa*	C. C.
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Dupuis, Severe J.	*Niagara*	C. C.
Duquaine, Frank J.	*Crivitz*	C. C.
Duranceau, Archie	*Schofield*	Agr.
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Dusterhoft, Herman	*Hermansville Mich.*	Agr.
Dyas, Joseph C.	*Baltimore Md.*	Enggr.
Ehrlich, William F.	*Racine*	C. C.
Einum, Fred	*Menomonie*	Agr.
Evans, Stanley E.	*New Lisbon*	Agr.
Ewald, John F.	*Madison*	Agr.
Foley, Merlyn R.	*Lake Beulah*	Agr.
Freer, Adelbert V. B.	*Milltown*	Agr.
Gangelin, Victor A.	*Milwaukee*	Agr.
Gessert, George W.	*Plymouth*	Agr.
Gilbertson, Clarence O.	*Stoughton*	Agr.
Goff, Earl S.	*Bruce*	Agr.
Goodwin, George A.	*Beaver Dam*	Agr.
Goss, Chester E.	*Good Hope, Ill.*	C. C.
Grahl, Richard C.	*Eden*	Agr.
Graves, Ralph S.	*Brooklyn*	C. C.
Gunvordahl, John	*Deerfield*	Agr.
Hajek, James J.	*Chicago, Ill.*	Agr.
Handy, Theodore A.	*Lansing, Mich.*	C. J.
Harvey, Richard W.	*Cadott*	Agr.
Haug, Godfrey H.	*Milwaukee*	Agr.
Hawley, Clifford S.	*Oshkosh*	C. C.
Hayford, Arthur S.	*Robbins*	Agr.
Hess, A. L.	*Reedsburg*	Agr.
Hofer, W. C.	*Evansville*	Agr.
Hoeckendorf, Edwin A.	*Forestville*	Agr.
Hohenadel, Elmer J.	*Chicago, Ill.*	Agr.
Holden, Harry V.	*Orfordville*	Agr.
Holloway, Clyde C.	*Hoopeston, Ill.*	Engr.
Holman, C. W.	*Marble Falls, Tex.*	Agr.
Holmes, Martin	*Shell Lake*	Agr.
Horne, Hans C.	*Chippewa Falls*	Agr.
Hoskinson, Wilbur S.	*Milwaukee*	Agr.
Humbert, Edward J.	*Dwight, Ill.*	Agr.
Jensen, Frederick P.	*Bedford*	Agr.
Jessen, Arthur M.	*Milwaukee*	Agr.
Johannes, Jacob	*Milwaukee*	Agr.
Johnson, Francis D.	*Beloit*	Engr.
Johnson, Severt	*Wanderoos*	Engr.
Julius, George	*Fond du Lac*	Engr.
Kessenich, Carl A.	*Madison*	Agr.
Koelsch, Roman J.	*Milwaukee*	Agr.
Kral, Raymond J.	*Madison*	Agr.
Krattley, Theodore U.	*Hudson*	Agr.
Krell, Richard H.	*Eau Claire*	C. C.
Ladd, Boyd C.	*Milwaukee*	C. C.
Lampman, Claude E.	*Arkansaw*	Agr.

Larsen, Niels A.	*Racine*	Agr.
Larson, Christ J.	*Kenosha*	Agr.
Levandowski, Blas A.	*Wausau*	Agr.
Lubkea, Oscar O.	*Weyauwega*	Agr.
Lutterman, Leo L.	*Crandon*	C. C.
McClelland, John A.	*Antigo*	Agr.
McKeen, John C.	*Bear Lake*	Agr.
Mackmiller, George C.	*Ashland*	C. C.
Marchesseau, Paul F.	*Elkhart, Ind.*	Engr.
Meister, C. A.	*Sun Prairie*	C. C.
Melrose, Leland J.	*Mondovi*	Agr.
Michels, Jacob P.	*Appleton*	Agr.
Moderski, Casimer	*Kilbourn*	Agr.
Moore, James	*Ladysmith*	Agr.
Mueller, Emil A.	*Merrill*	Agr.
Mueller, Mat P.	*Neillsville*	Engr.
Murray, John B.	*Whitewater*	Agr.
Nickel, Victor R.	*Montello*	Engr.
Nighbor, Stephen	*Berlin*	Agr.
O'Bey, Charles	*Tomahawk*	Agr.
O'Hardy, John R.	*Baraboo*	Agr.
Pautz, Henry F.	*Bonduel*	Agr.
Perkins, Erwin J.	*Madison*	Agr.
Peterson, Victor H.	*Kibbie, Mich.*	Agr.
Prochnow, Walter C.	*New London*	Agr.
Ramaker, E. A.	*Milwaukee*	Agr.
Rawling, Wellington	*Milwaukee*	Agr.
Read, Robert J.	*Oconto*	Engr.
Reis, Nick M.	*Madison*	Agr.
Resnekoff, Lou L.	*Danville, Ill.*	Engr.
Rice, James R.	*Earl*	Agr.
Rindall, Martin H.	*Rhinelander*	Engr.
Robinson, Harold B.	*Milwaukee*	Engr.
Rock, John F.	*Pound*	Agr.
Rockwell, Leslie H.	*Madison*	Agr.
Rongstad, L. O.	*Menomonie*	Agr.
Ross, James W.	*Hammond*	Agr.
Rothenbuehler, G. G.	*Monroe*	Agr.
Sadowski, Ray R.	*Milwaukee*	Agr.
Schlafer, Elwin M.	*Menomonee Falls*	Agr.
Schmidt, P. J.	*Eau Claire*	Agr.
Schulz, Clarence C.	*Madison*	Agr.
Schumacher, Edwin F.	*Juneau*	Agr.
Searls, William H.	*Chicago, Ill.*	Agr.
Sevalia, Walter	*Brule*	Engr.
Sheehan, T. H.	*Naperville, Ill.*	Agr.
Sheldon, John E.	*Hines*	Agr.
Shelhammer, John W.	*Blackwell*	C. C.
Skarda, Louis	*Neenah*	Agr.
Solvie, Adolph B.	*Mt. Horeb*	Agr.
Spencer, John D.	*Oshkosh*	Engr.
Steffen, Alfred M.	*Hortonville*	Agr.
Stiff, Alfred W.	*Evansville*	Agr.

Sweeney, Paul E.	*Edgerton*	Agr.
Sweno, Glen E.	*Whitewater*	Engr.
Taylor, Frederick B.	*Oshkosh*	Agr.
Thatcher, Paul A.	*Danburg*	Agr.
Thompson, Edward A.	*Dancy.*	Agr.
Thompson, Otto L.	*Sharon*	Agr.
Van Sickle, Clayton D.	*Eau Claire*	Agr.
Vassell, Fred W.	*Milwaukee*	Agr.
Vlieland, Herbert F.	*River Falls*	Agr.
Walter, Clem C.	*Kendall*	Agr.
Webster, Francis L.	*Turtle Lake*	Engr.
Weier, August G.	*Arcadia*	Agr.
White, Herbert H.	*Stoddard*	Agr.
Wilson, Jasper A.	*Milwaukee*	Agr.
Wilson, John G.	*Centralia, Ill.*	L. S.
Wilson, Nathan D.	*LaFarge*	Agr.
Wilson, Robert	*Mondovi*	Agr.
Wright, George B.	*Geneva, Ill.*	Agr.

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Students Enrolled in Regular Courses

Ahrens, Harvey G.	*Two Rivers*	Agr.
Alber, Herbert L.	*Greeley, Colo.*	C. C.
Anderson, Earl C.	*Grantsburg*	C. C.
Austerman, Richard W.	*Madison*	Engr.
Bailey, Paul E.	*Menomonie*	C. C.
Barbo, George A.	*Deronda*	Agr.
Boerke, Edison M.	*Wausau*	C. C.
Brill, Lawrence A.	*Milwaukee*	C. C.
Brown, Maynard W.	*LaCrosse*	Agr.
Byrns, Elmer D.	*Madison*	Agr.
Carothers, Andrew B.	*Starkville, Miss.*	Agr.
Carson, William H. Jr.	*Madison*	Engr.
Clark, Farnham	*Menomonie*	Agr.
Coit, Lew G.	*Hudson*	C. C.
Cramer, Lawrence W.	*Milwaukee*	C. C
Crosby, George S.	*Hampton, Va.*	Agr.
Degler, Louis F.	*Superior*	C. C.
Dolliver, Ardin J.	*Berlin*	Engr.
Dooley, Milton L.	*Milwaukee*	Pharm.
Dunwiddie, Leon F.	*Delavan*	Agr.
Edson, Dewey C.	*Alcester, S. D.*	Law
Edwards, Vivien L.	*Momence, Ill.*	C. C.
Evanson, Henry B.	*Mt. Horeb*	Engr.
Feiges, Julius	*Racine*	L. S.
Gage, Earl E.	*White Hawk*	Pharm.
Gray, John	*Madison*	Grad.
Greco, Charles	*Chicago, Ill.*	L. S.
Groesel, Quiren M.	*Algoma*	Engr.
Hanson, Jens P.	*Oconomowoc*	Music
Hartman, William A.	*Wauwatosa*	Agr.
Head, Kenneth L.	*Milwaukee*	C. C.
Hemsing, Gerald K.	*Milwaukee*	Engr.

Hopkins, William B.	*Madison*	Pharm.
Hughes, Idrys C.	*Platteville*	Agr.
Hyer, Frank	*Whitewater*	Engr.
Hyslop, Volney B.	*Lavalle*	L. S.
Jacobson, Roland	*Billings, Mont.*	L. S. Med.
Jelinski, Frank	*Oconto Falls*	Engr.
Johnson, Gustavus E.	*Boyceville*	Agr.
Kanard, Leonard J.	*La Crosse*	Engr.
Keller, Henry Jr.	*Bellefonte, Pa.*	Grad.
Kruschke, Walter E.	*Waldo*	L. S.
Lappley, Gilbert F.	*Madison*	Law
Leland, Thomas W.	*Oshkosh*	C. C.
Little, Harvey B.	*Appleton*	C. C.
Lounsbury, Harry E.	*Richland Center*	Pharm.
Lowry, Howard J.	*Colfax*	Law
Luck, Charles C.	*Kansas City, Kan.*	L. S.
McCandless, Donald S.	*Davenport, Iowa*	L. S.
McConnell, Kenneth	*Sparta*	Agr.
McCoy, Frank	*Sterling, Ill.*	C. C.
McDonald, Lawrence	*Whitewater*	C. C.
McManus, James F.	*Chicago, Ill.*	Engr.
Markus, Norbert W.	*Quincy, Ill.*	L. S.
Miles, Stephen J.	*Madison*	C. C.
Milum, Vern G.	*Viola*	Agr.
Moore, Charles F.	*Madison*	L. S.
Morman, Wade A.	*Wausau*	L. S.
Munkwitz, Richard C.	*Edgar*	Agr.
Murphy, Lawrence	*Madison*	C. J.
Myrland, Eiel H.	*Mauston*	C. C.
Nebel, Harold	*Milwaukee*	Grad. Med.
O'Hora, Clarence M.	*Avoca*	L. S.
O'Keefe, Alexis W.	*Madison*	C. C.
Peterson, Carl E.	*Menomonie*	C. C. Law
Peterson, Ephraim L.	*Stockholm*	C. C.
Peterson, Lester W.	*Leonardsville, N. Y.*	Ch. C.
Pollack, Harry A.	*Milwaukee*	Grad.
Price, Elmer E.	*McComb, Miss.*	Engr.
Rath, Floyd C.	*Cataract*	Pharm.
Rosenblum, Harry	*Terre Haute, Ind.*	Law
Ryall, Ernest V.	*Ladysmith*	Agr.
Salen, Herman R.	*Waukesha*	Law
Scholten, Adrian	*Valley Spring, S. D.*	L. S.
Schwartzberg, Ben	*Chicago, Ill.*	Agr.
Strathearn, John G.	*Manitowoc*	Engr.
Stroman, Goven	*Uvalde, Texas*	Grad.
Taylor, Raymond C.	*Barron*	C. C.
Thomas, Robert C.	*Oak Park, Ill.*	Agr.
Thorngate, George	*Exeland*	Grad.
Turgeson, Fletcher	*Richland Center*	L. S.
Vose, Lyman R.	*McComb, Ill.*	C. C.
Walker, Alfred E.	*Duluth, Minn.*	L. S.
Walters, Thomas A.	*Stevens Point*	L. S.
Ward, Gilbert	*Fond du Lac*	C. C.

Wendt, Charles D.	*Berlin*	C. C.
Wiemer, Martin A.	*Independence*	C. C.
Wood, George E.	*Cottage Grove*	C. C.
Wurster, Carlyle B.	*Mazomanie*	Law
Youngberg, Adolph F.	*LaCrosse*	Engr.
Zwicker, Michael H.	*Madison*	Engr.

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SUMMER SESSION

GRADUATES

Aamoth, Walter Ignatius — *Portland, Ore.*
B.A., Concordia College

Adams, Jesse Bliss — *Rochester, Minn.*
B.S., Kansas State Agricultural College

Adrian, P. — *Atchison, Kan.*
M.A., St. Johns University

Albert, Arthur Robert — *Madison*
B.S., University of Wisconsin

Albertz, Hugo William g — *Watertown*
B.S., University of Wisconsin

Alderson, Persis Hurd — *Des Moines, Iowa*
D.A., Northwestern University

Alexander, Ferne Terese — *Winfield, Kan.*
Ph.B., University of Chicago

Alford, Pauline — *Duluth, Minn.*
B.A., Oberlin College

Allen, Claudia Mae — *Belleville*
Ph.B., University of Chicago

Allen, Jessie B. — *Cambridge*
B.A., University of Wisconsin

Alley, John — *Norman, Okla.*
B.A., Harvard University

Altmeyer, Ethel Thomas — *Madison*
B.A., University of Wisconsin

Ames, Norton Travis — *Oregon*
B.S., University of Wisconsin

Ames, Walter Ray — *Madison*
Ph.M., University of Wisconsin

Anderson, Elizabeth Neely — *Philadelphia, Pa.*
B.S., University of Pennsylvania

Anderson, Henry — *Brewster, Minn.*
B.A., Southern Minnesota Normal College

Anderson, William Tait — *Madison*
Ph.B., University of Wisconsin

Anderson, Zeta — *Epworth, Iawa*
B.A., Cornell College, Mt. Vernon, Ia.

Appasamy, Aiyadurai Jesudasin — *Palameottah, India*
M.A., Harvard University

Appleman, George Mordecai — *Viroqua*
Ph.B., University of Wisconsin

Armstrong, Dora Velma — *Princeville, Ill.*
B.A., Northwestern University

Armstrong, Margaret Lucretia — *Princeville, Ill.*
B.A., Northwestern University

Armstrong, Susan Naylor — *Madison*
B.A., University of Wisconsin
Arnold, Henry Jay — *Waverly, Iowa*
B.A., University of Nebraska
Asada, Schunichi g — *Tokyo, Japan*
B.A., Waseda University
Ashford, Percival Drummond — *Polo, Ill.*
Ph.B., University of Chicago
Atanasoff, Dimitar — *Madison*
M.S., University of Wisconsin
Auten, John Thompson — *Whitehall*
B.S., University of Illinois
Bahadur, Mohindra g — *Deccan, India*
B.A., University of Punjab
Baird, Harry Silversides — *Davis, Cal.*
B.S., Kansas State Agricultural College
Baker, Alice — *Boardman*
Ph.B., University of Wisconsin
Baker, Bess — *Hudson, Mich.*
B.A., University of Michigan
Baker, Elizabeth — *Evansville*
B.A., University of Wisconsin
Baker, Rannie Belle — *Hudson, Mich.*
B.S., Northwestern University
Baker, Sarah Alice — *Eagle*
Ph.B., University of Wisconsin
Balcke, Minnie Dorothea — *Pekin, Ill.*
B.S., Iowa Wesleyan College
Ballard, Charles McElvy g — *Shelbyville, Ill.*
B.Litt., Kenyon College
Bancroft, Helen Louise — *Hiram, Ohio*
B.S., Hiram College
Barger, Panzy Louise — *Tarkio, Mo.*
M.A., University of Illinois
Barker, Ada McLean — *Brooklyn, Ia.*
M.A., Iowa State University
Barker, Robert Isaac — *West De Pere*
B.A., University of Wisconsin
Barnason, Charles Frederick — *Lakewood, Ohio*
M.A., Cornell University
Barry, Alfred Glen — *Manistique, Mich.*
B.A., Albion College
Barry, Evangeline — *Chicago, Ill.*
Ph.B., University of Chicago
Battle, Anita Traviss — *St. Louis, Mo.*
B.A., Washington University
Bauer, Frederick Charles g — *Madison*
M.S., University of Illinois
Bausch, Frieda Bertha — *Gettysburg, Pa.*
B.A., Pennsylvania College
Bausch, Mary M. g — *Madison*
M.A., Pennsylvania College
Bayles, Olive — *Seward, Nebr.*
B.A., Nebraska State University

Beatty, Maria — *Chicago, Ill.*
M.A., University of Wisconsin
Beck, Ruth — *Morning Sun, Iowa*
B.A., Coe College
Becker, Lillie — *Cincinnati, Ohio*
B.S., University of Cincinnati
Bennett, Annette — *Springfield, Ohio*
M.A., Columbia University
Bennett, Genevieve — *Lancaster*
B.A., University of Wisconsin
Bensend, Louis Adolph — *Whitehall*
B.S., University of Wisconsin
Benson, Ada — *Princeton, Ill.*
B.A., University of Wisconsin
Bent, Winifred — *Oshkosh*
B.A., University of Wisconsin
Berg, Lucile Harriet — *Ruthven, Iowa*
B.A., University of Wisconsin
Berger, Thomas Allen — *Durant, Okla.*
B.S., Kirksville, Mo., State Normal School
Bernardo, Gabriel A. g, wls — *Bulacan, P. I.*
B.A., University of the Philippines
Berryman, Lena Mabel — *Fredericktown, Mo.*
B.S., University of Missouri
Beyer, Louise Wilhelmine — *Marion, Iowa*
B.S., Coe College
Bibby, Mary Edna — *Galesville*
B.A., Carroll College
Bills, Stella May — *Elyria, Ohio*
B.A., Oberlin College
Bird, Lavisa Elizabeth — *Madison*
B.S., Milwaukee-Downer College
Birdsell, Dorothea Elizabeth — *Minneapolis, Minn.*
B.A., St. Mary-of-the-Wood's College
Bishop, Charles C. — *Portage*
B.A., University of Wisconsin
Bissland, Grace Dobson — *St. Louis, Mo.*
B.A., Washington University
Bitterman, Ruth Genevieve g — *Madison*
B.A., University of Wisconsin
Bittner, Eleanor — *Alma, Mich.*
Ph.B., Alma College
Black, Margaret Graff — *Corvallis, Ore.*
B.A., University of Michigan
Blackburn, Antoinette Milner — *Atlanta, Ga.*
B.A., Agnes Scott College
Blair, Mary Ellen — *St. Louis, Mo.*
B.A., Vassar College
Blattner, David Jones g — *Sulphur, Okla.*
B.S., University of Wisconsin
Blazer, Gertrude Elizabeth — *Beloit*
B.A., Beloit College
Bleck, Clara C. — *Naperville, Ill.*
M.A., University of Wisconsin

Bliss, Myrtie Rundlett — *Madison*
B.S., University of Wisconsin
Bobb, Thomas Newton — *Ashland*
B.A., Northland College
Bodensieck, Anne Marie — *Charles City, Iowa*
B.A., State University of Iowa
Bohlman, Herbert William — *South Kaukauna*
B.A., Lawrence College
Bohnson, Van Lorens g — *Madison*
M.S., University of Wisconsin
Bohstedt, Elise — *Victor, Iowa*
B.A., Drake University
Bohstedt, Gustav g — *Madison*
M.S., University of Wisconsin
Bollenbeck, Ida Kathryn — *Madison*
B.S., University of Wisconsin
Bond, Edith Lorraine — *Madison*
B.A., University of Wisconsin
Bonfoey, Jennie Prudence — *Milwaukee*
Ph.B., University of Wisconsin
Bonham, Martha Elizabeth — *Watseka, Ill.*
B.A., University of Illinois
Bookmeyer, Mary Barbara — *Plattsmouth, Nebr.*
B.A., University of Nebraska
Borsack, Karl Kasper — *Fond du Lac*
B.A., University of Wisconsin
Bourgeois, Helen LaVern — *Bismark, N. Dak.*
B.S., Jamestown College
Bowden, Beulah May g — *Brodhead*
Ph.B., University of Wisconsin
Bowing, Stacy Albert — *St. Cloud, Minn.*
B.A., University of Minnesota
Bowlus, Hazel W. — *Urbana, Ill.*
B.A., University of Illinois
Bowser, Goldie May — *Gibsonburg, Ohio*
B.A., Oberlin College
Brandon, Mary Josephine — *Columbus, Ohio*
B.A., Ohio State University
Brandt, Walther Immanuel g — *Macfarland*
M.A., University of Wisconsin
Brede, Elfrida Marie — *Collinsville, Ill.*
B.A., McKendree College
Brown, Benjamin Franklin — *Bryan, Tex.*
B.S., Northwestern University
Brown, Clifford LeRoy — *Terrell, Tex.*
B.A., Southern College
Brown, Ernest James — *Madison*
B.S., University of Wisconsin
Brown, Gertrude Floy — *St. Paul, Minn.*
B.A., Hamline University
Brown, Hazel Irene — *Madison*
B.A., University of Wisconsin
Brown, Mabel Mary — *Platteville*
M.A., University of Wisconsin

Brown, Paul M. — *Laona*
B.S., University of Wisconsin

Brown, Reuben Samuel Tilden — *Madison*
B.A., University of Wisconsin

Brown, Ruth Evelyn — *Hutchinson, Kan.*
B.A., Lombard College

Bruce, Harold Rozell g — *Madison*
M.A., University of Wisconsin

Bryan, Ethel Lillian — *Ripon*
B.A., Ripon College

Buck, Blanche Julia — *Waupaca*
B.A., Ripon College

Buckeridge, Bess Belle — *Webb City, Mo.*
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Budd, Ethel Lockwood — *Appleton*
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Buley, R. Carlyle — *Springfield, Ill.*
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Bunn, Bertha Kellett — *Spokane, Wash.*
B.A., University of Wisconsin

Bunting, Lucy Meritta — *Quincy, Ill.*
B.S., Chautauqua Institute, New York

Burdick, Allison Lovelle — *Milton*
B.A., Milton College

Burdick, William Dighton — *Milton*
B.A., Milton College

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B.A., University of Wisconsin

Burtner, Emma F. — *Germantown, Ohio*
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Byrne, Mary Frances — *Fitchburg*
B.A., University of Wisconsin

Cable, Donald Elmer g — *Chicago, Ill.*
B.S., Armour Institute

Caldwell, Albert Francis — *Richland Center*
B.A., Park College

Caliver, Ambrose — *Nashville, Tenn.*
B.A., Knoxville College

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B.S., University of Wisconsin

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B.A., University of Michigan

Carmichael, Fay — *Colony, Kan.*
B.A., University of Kansas

Carneal, George Upshur — *Richmond, Va.*
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Carroll, Antoinette Lartique — *New York, N. Y.*
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Carson, Alma — *Bartlesville, Okla.*
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Cass, Alta — *Sauk Center, Minn.*
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B.S., Ottawa University
Cate, Florence Marilla — *Winfield, Kan.*
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Chapman, Charles King — *Toledo, Ohio*
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Chipman, Willard Alonzo — *Stoughton*
B.S., University of Wisconsin
Chu, Keats Synn g — *Ningpo, China*
B.A., University of Wisconsin
Chubb, Mavis Adelaide — *St. Louis, Mo.*
B.A., University of Wisconsin
Church, Lucy E. — *Harvard, Ill.*
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Clevenger, Clinton B. — *Fletcher, Ohio*
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B.A., Indiana State University
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B.A., University of Wisconsin
Conner, Zoe Helen — *Boone, Ia.*
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B.S., Beloit College
Cook, Dorothy Margaret — *Madison*
B.S., University of Wisconsin
Cook, Henry Allen — *Wautoma*
B.A., University of Wisconsin
Cook, Mary Elizabeth Cordula — *Burlington*
B.S., Valparaiso University
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Cooley, Earle Edward — *Agricultural College, Miss.*
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Cooper, Rida Cornelia — *Madison*
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Copp, Ellen Adelaide g — *Madison*
M.A., Hillsdale College
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Craine, Elizabeth Martha — *Monmouth, Ill.*
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B.A., Milton College
Crane, Mary Prentice — *Detroit, Mich.*
B.A., Vassar College
Crapser, Anna H. — *Iowa Falls, Ia.*
B.A., Ellsworth College
Cravens, Virginia — *Hardinsburg, Ind.*
B.A., De Pauw University
Crawford, Helen Martha — *Winfield, Kan.*
B.A., Southwestern College
Crosley, Fern Amelia — *Milton*
B.A., Milton College
Cunningham, Bert — *Madison*
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Cunningham, Olney Ruth — *Galveston, Tex.*
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Curtis, Joseph C. — *New Lisbon*
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Davies, Rose Adah — *Mazon, Ill.*
B.A., Knox College

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B.A., Ripon College
Davis, Hazel Jane — *Terre Haute, Ind.*
B.A., Indiana State Normal
Davis, Ira Cleveland — *Madison*
B.A., Ripon College
Davis, Jean Scobie g — *Princeton, N. J.*
B.A., Bryn Mawr College
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B.A., University of Wisconsin
Davis, Melvin Grant — *Wyandotte, Ind.*
B.A., Indiana University
Decker, Charles Ernest — *Walnut, Ill.*
B.A., Aurora College
Decker, Venora Stephens — *Walnut, Ill.*
B.A., Aurora College
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B.A., Drake University
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Dolan, Edith Agatha — *Avondale, Cincinnati, Ohio*
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Door, Blanche Elinor — *Mankato, Minn.*
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Drinkle, Catherine — *Lancaster, Ohio*
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Frawley, Honora Margaret — *Eau Claire*
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Frazier, Naomi Lois — *Nappanee, Ind.*
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Frierson, Eleanor — *Columbia, Tenn.*
B.A., Agnes Scott College
Frost, Benjamin Shipp — *Eckford, Mich.*
B.C.S., Albion College
Fuller, Ethel Inez — *Galva, Ill.*
B.A., Hedding College
Fuller, Kate — *Huntington, W. Va.*
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Fuller, Vivian Marguerite — *La Crosse*
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Galbraith, Harry Burns — *Uhrichsville, Ohio*
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B.L., Blue Mountain College
Galphin, Thomas Millege Jr. g — *Louisville, Ky.*
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Galster, Augusto E. — *Tower Hill, Ill.*
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Garner, Vance Nell — *Brownsburg, Ind.*
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Gaydon, Nellie Frederica — *Geneseo, Ill.*
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B.A., University of Wisconsin
Godfriaux, Henry Renile — *Marshall, Mo.*
B.A., William Jewell College

Goggio, Charles — *Reno, Nev.*
M.A., University of Wisconsin
Goodyear, Bessie Edith — *Wichita, Kan.*
B.A., Friend's University
Grace, Mary Charity — *St. Louis, Mo.*
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Graham, Elizabeth Adleine — *Pella, Ia.*
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Gratiot, Edward Collins — *Shullsburg*
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Graves, Richard Arthur — *Madison*
M.A., University of Minnesota
Gray, Hazel Marie — *Madison*
M.S., University of Wisconsin
Green, Carrol Gardner g — *Brookings, S. Dak.*
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Green, Ruth Elizabeth — *Fond du Lac*
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Green, Veronica Jane — *Appleton*
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Green, Wyman Reed — *Evanston, Ill.*
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Greene, Leon Sherman — *Alfred, N. Y.*
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Greenough, Francis Xavier — *Oshkosh*
B.A., University of Wisconsin
Gregory, Olivia Susanna — *St. Louis, Mo.*
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Grieder, Hilda Marie — *Dubuque, Ia.*
B.A., Dubuque Presbyterian College
Grindstuen, Iver Iverson — *Edgerton*
B.A., Luther College
Grosh, Lulu — *Wichita, Kan.*
B.A., University of Kansas
Gross, Erwin George g — *Merrimac*
M.S., University of Wisconsin
Guiet, René — *Renves, France*
B.A., Lycée of Reims
Gummersheimer, Cordelia Elizabeth — *Belleville, Ill.*
B.A., Knox College
Gummersheimer, Meta Johanna — *Belleville, Ill.*
B.A., Illinois College
Gunn, Ada Katherine — *Ottawa, Kan.*
B.A., Ottawa University
Gurbarg, Samuel Jay — *Philadelphia, Pa.*
B.A., University of Pennsylvania
Guyer, Michael F. — *Madison*
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Hacker, Emil Frederic — *Columbus, Ohio*
M.A., University of Wisconsin
Hahn, Ada Alma — *Jefferson*
B.A., Lawrence College
Haley, Lillian — *Madison*
B.A., University of Wisconsin

Hall, Beth M. *Milton*
B.A., Milton College
Hall, Elizabeth Asenath *Indianapolis, Ind.*
M.Ph., University of Chicago
Hall, Frank Gregory *Milton*
B.A., Milton College
Halley, Charles Robert Lee *Sheridan, Wyo.*
B.A., University of Missouri
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B.A., University of Michigan
Hann, Fred Roderick, Jr. *McFall, Mo.*
B.S., Oklahoma Agricultural and Mechanical College
Hanna, Lavone Agnes *Clay Center, Kans.*
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LL. B., Northwestern University
Hansen, Grace Maybelle *Madison*
M.A., Culver Stockton College
Hansen, Harold Floyd *Merrill*
B.A., Ripon College
Harris, Olive Caroline *Abingdon, Ill.*
M.A., University of Illinois
Harrold, Thomas Jr. *Americus, Ga.*
B.S., University of Georgia
Hartsook, Frank McCullough m *Cardington, Ohio*
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Haverstack, Iris *Massellon, Ohio*
M.A., Oberlin College
Hawes, Walter Charles *Templeton*
B.S., University of Wisconsin
Hayes, Augustus Washington g *Pleasant Plains, Ill.*
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Hazlett, Louise *Blairsville, Pa.*
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Heathcote, Daniel Joy *Kalamazoo, Mich.*
B.A., University of Michigan
Hedden, Elma W. *West Orange, N. J.*
B.A., Goucher College
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Hein, Fred William *South Milwaukee*
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Heise, Anna g *Madison*
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Henry, John Martin — *Junction City, Ohio*
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Hertzman, Alrick Brynhjolf — *Ashland*
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Hervey, Mary Amanda — *Elm Grove, W. Va.*
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Hildebrand, Louis Ernest — *Evanston, Ill.*
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Hill, Faye Jeannette — *Benton Harbor, Mich.*
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Hilsmeyer, Gladys Marie — *Welutka, Okla.*
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Hocking, Esther — *Neenah*
B.A., Lawrence College
Hoehn, Beatrice Eva — *Carlinsville, Ill.*
B.L., Blackburn College
Hoekje, Hanna Gamelia — *Holland, Mich.*
B.A., Hope College
Hoeltzel, Pauline Reichardt — *Little Rock, Ark.*
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Hoffman, Alice E. — *Madison*
B.S., University of Wisconsin
Hoffmeier, Emily Leaman — *Hagerstown, Md.*
B.A., Mt. Holyoke College
Hohler, Gertrude Mary — *New London*
B.A., University of Wisconsin
Hollis, Harriet Frances — *Chicago, Ill.*
B.A., University of Chicago
Holmes, Henry Bert — *Marshall, Ind.*
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Howe, Joseph Edwin — *Birdseye, Ind.*
B.A., Winona College
Howell, Edward Newland — *Kirksville, Mo.*
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Hoyer, George H. C. — *West Bend*
B.S., University of Wisconsin
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Hunt, Mary Rebecca — *Coatesville, Ind.*
B.A., De Pauw University
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Jacobson, Ruby I. S. — *Missoula, Mont.*
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James, Henry Francis g — *Milwaukee*
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James, Zuba Earle — *Darlington*
B.S., James Millikin University
Janes, George Milton — *Grand Forks, N. Dak.*
B.A., Dartmouth College
Jaqua, Josephine — *St. Francis, Kan.*
B.A., University of Kansas
zu Jeddeloh, Henry John — *Madison*
B.A., University of Wisconsin
Jenkins, James Francis — *Berlin*
M.A., University of Wisconsin
Jenkins, Ruth D. g — *Madison*
B.L., Smith College
John, Dwight — *Hudson*
B.A., Otterbein College
Johnson, Amon Oviere — *Ulen, Minn.*
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Jones, Marjorie Helen g — *Portage*
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Kautz, Maude Amelia — *Worthington, Ind.*
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Keller, Clara Frederica — *Jeffersonville, Ind.*
B.A., Transylvania College
Kelley, Etna Marie — *Garyville, La.*
B.A., Louisana State University
Kemp, Margaret Stanley — *Jamestown, N. Dak.*
B.L., Carlton College
Kenaga, Katherine Jeanette — *Kankakee, Ill.*
M.A., Radcliffe College
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King, Josephine Helen — *Omro*
B.A., Ripon College
King, Lydia Estella — *Sterling, Ohio*
B.A., Ashland College
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B.S., University of Missouri
Kirk, Anna Euphrasia — *Lyons, Ind.*
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McGee, Irma A. — *Caldwell, Idaho*
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B.S., Beloit College
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McPherson, Maud Esther g — *Washington, D. C.*
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Mabley, Marguerite Dudley — *Jackson, Mich.*
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Metzner, Albertine Emilie — *Plymouth*
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Reid, Mary Elizabeth g — *Oconomowoc*
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Reynolds, Hazel Lucile — *Horton, Kan.*
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Richards, C. Audrey g — *St. Mary's, Ohio*
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Richardson, Pearl Elmina — *Sparta*
B.A., Lawrence College
Richmond, Mildred Ella — *Geneseo, Ill.*
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Riegel, Florence Edna — *Neenah*
B.A., Lawrence College
Rifkin, Sarah Leah — *St. Louis, Mo.*
B.A., Washington University
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M.A., St. Andrews, Scotland
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M.L., University of Minnesota
Riordan, Henry Grattan — *St. Francis*
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B.E., Hedding College
Roberts, Braxton Leslie — *Conway, Mo.*
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Robinson, Arthur Harrison — *Madison*
B.S., University of Wisconsin
Robinson, Mary Grace — *Kenosha*
B.A., Northwestern University
Rooth, Carrie Lee — *Joy, Ill.*
B.A., University of Illinois
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B.A., Georgetown College
Roseberry, Helen Mercedes — *Louisville, Ky.*
B.A., University of Louisville

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M.A., University of Wisconsin

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Royse, Julia Alice — *Rockville, Ind.*
B.A., Morningside College

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B.A., University of Wisconsin

Ruggles, Gladys Regene — *Hurley*
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B.A., University of Wisconsin

Russell, Fred Sanford — *Kirksville, Mo.*
B.S., University of Missouri

Rutledge, Rowena — *Dallas, Tex.*
B.A., Randolph-Macon College

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B.A., University of Wisconsin

Sakaguchi, Tokusaburo — *Otarie, Japan*
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B.A., Carroll College

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B.A., Mt. Union College

Samuel, Emma Louise — *Racine*
B.S., Lewis Institute

San Augustin, Gregorio g — *Cavite, P. I.*
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B.S., St. Olaf College

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B.A., University of Wisconsin
Schreiter, Herbert — *Milwaukee*
B.A., University of Wisconsin
Schrenk, Walter Theodore g — *Golconda, Ill.*
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Schroeter, Olivia Stocke — *St. Louis, Mo.*
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Schubring, Selma Langenhan g — *Madison*
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Schuler, Dominic H. — *Milwaukee*
B.S., University of Wisconsin
Schultz, Arthur Robert — *De Forest*
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B.A., Ripon College
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Seibold, Fred Carl — *Camp Douglas*
B.A., University of Wisconsin
Sell, Lucile Iva — *Reeseville*
B.A., University of Wisconsin
Sells, Verle Estle — *Florence*
B.L., Milwaukee-Downer College
Sennett, Margaret Devlin — *Madison*
B.A., University of Wisconsin
Seymour, Margaret Anna — *Hastings, Nebr.*
B.S., Rockford College
Sharp, Malcolm Pitman g — *Madison*
B.A., Amherst College
Shaw, Florence Magdalene — *Berlin*
B.A., Ripon College
Shaw, George Robert g — *Frederick, Md.*
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B.A., Illinois College
Shibli, Jabir — *Fargo, N. Dak.*
B.A., Oberlin College
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Shoemaker, Laura May — *Waupaca*
B.A., Carroll College
Shriver, Helen — *Mt. Vernon, Mo.*
B.A., Drury College
Shriver, Madge Joy — *Mt. Vernon, Mo.*
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Sister O'Hanlon, Mary Ellen — *Sinsinawa*
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Sister Mary Eva McCarthy — *Sinsinawa*
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Sister Mary Camillus — *Sinsinawa*
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Sister Mary Fabian — *Madison*
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Smith, Kathryne Claire — *Carthage, Mo.*
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Smith, Margaret Helen — *Tomah*
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Way, Henrietta — *Terre Haute, Ind.*
B.A., Indiana State Normal College
Weber, Carl Joseph — *Hartland*
B.S., University of Wisconsin

Weeks, Ruth Mary — *Kansas City, Mo.*
M.A., University of Michigan

Weiss, Florence Marie — *Madison*
B.S., University of Wisconsin

Wente, Elizabeth Katherine — *Cincinnati, Ohio*
B.S., Columbia University

Wertz, Virgil Roe g — *Madison*
B.S., University of Wisconsin

West, Robert William — *Milton Jct.*
B.A., Milton College

Weygold, Frieda Sophia — *Louisville, Ky.*
B.A., University of Louisville

Whisnand, Roy Albert — *St. Louis, Mo.*
B.A., De Pauw University

White, Cleveland James — *Shullsburg*
B.A., University of Wisconsin

White, Lillian Alice — *Chicago, Ill.*
Ph.B., University of Chicago

White, Della Maude — *Rhinelander*
B.A., University of Wisconsin

White, Rachel Effie — *Rhinelander*
B.A., University of Wisconsin

Whiteside, Katherine Page — *Louisville, Ky.*
B.A., University of Wisconsin

Whitham, Jessie Isabel — *Detroit, Mich.*
B.S., Columbia University

Whiting, Emily Frances — *St. Clair, Mich.*
B.A., Vassar College

Whittaker, Annie Eikel — *Seguin, Tex.*
B.A., University of Texas

Wiener, Joseph Baxter — *Superior*
Ph.B., University of Wisconsin

Wiesender, Emma Margaret — *Green Lake*
B.A., Oberlin College

Willemsen, Jennie — *St. Louis, Mo.*
Ph.B., University of Chicago

Williams, Clara Elaine — *Bloomington, Ind.*
B.A., Indiana University

Williams, Florence Bell — *Cedar Rapids, Ia.*
B.S., Coe College

Williams, Rosamond Fisher — *Galveston, Tex.*
B.A., University of Texas

Williams, Rose Martha — *Bloomington, Ind.*
B.A., Indiana University

Wilson, Edith Rowena — *Ft. Madison, Ia.*
B.S., Knox College

Wilson, Ethel Crane — *St. Louis, Mo.*
B.A., University of Michigan

Wilson, Murray Alderson — *Baldwin, Kan.*
B.A., Baker University

Wilson, Ralph C. — *St. Louis, Mo.*
B.S., Macalaster College

Winner, Harry E. — *Pittsburg, Pa.*
Ph.B., Grove City College

Wintzer, Ruby — *Wapakoneta, Ohio*
B.A., Mt. Union College
Wise, Carl Tipton — *Duluth, Minn.*
Ph.B., University of Wisconsin
Wise, Clarence Ruben g — *Madison*
B.A., Cornell College
Wise, Merton Barber — *Rothschild*
B.A., University of Wisconsin
Witherspoon, Florence Pegnes — *Louisville, Ky.*
B.A., University of Louisville
Wolford, Jessie Ellen — *West Terre Haute, Ind.*
B.A., Franklin College
Wood, Beatrix Lanora — *Madison*
B.A., University of Wisconsin
Woodlands, Eula Vivian — *Tabor, Ia.*
B.A., Tabor College
Wooster, Lyman Dwight — *Hays, Kan.*
Ph.M., University of Wisconsin
Wright, Caroline Shafroth — *Bozeman, Mont.*
B.A., Central College, Fayette, Mo.
Wright, Christine Ramsey — *Baraboo*
B.L., University of Wisconsin
Young, Esther Adelaide — *Neenah*
B.A., Carroll College
Young, Grace Effie — *Bethany, Nebr.*
M.A., Cotner College
Zerler, Edward Eastman — *Plymouth*
B.A., Ripon College
Zimmerman, Beatrice Anna — *Wausau*
B.A., Lawrence College
Zimmerman, John — *Dubuque, Ia.*
B.A., Princeton University
Zinn, Zea — *Platteville*
B.A., Milton College
Zorbaugh, Grace S. McClure — *Fairfield, Ia.*
B.A., Western Reserve University
Zurcher, Emilie — *Canton, Ohio*
M.A., Western Reserve University

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UNDERGRADUATES AND TEACHERS

Letters and Science

Aardal, Albert Anderson l s — *Moorhead, Minn.*
Abel, Oliver, Jr. — *St. Louis, Mo.*
Acton, Amy Wilhelmina — *Dowagiac, Mich.*
Adams, Gordon Dale — *Evansville*
Adolphson, Svea Matilda l s — *Edgerton*
Ahern, Mary Ellen l s — *Madison*
Aide, Daniel Byron e — *Waterloo, Ia.*
Aikins, John Thomas l s — *Viroqua*
Aimers, Josephine Irene — *Richland Center*

Albertz, Max Henry l s	*Watertown*
Albrecht, Louis J.	*Kewaunee*
Albrecht, Selma Carrie l s	*Madison*
Alcorn, Bessie L.	*Ashland*
Alcorn, Kent Archibald	*Chicago, Ill.*
Alderson, Edmund Waldo	*Champaign, Ill.*
Alexander, Anne Ruth l s	*Madison*
Alexander, Trent	*Madison*
Algeo, Carrie Paine	*Columbia, Mo.*
Allen, Gertrude	*Kansas City, Mo.*
Allen, Marjorie Strong l s	*Oshkosh*
Altschwager, Edwin A. l s, m	*Sheboygan*
Anda, Edith Marie	*Chicago, Ill.*
Andersen, Aksel Anders	*Minneapolis, Minn.*
Andersen, Sigurd Alexander	*Madison*
Anderson, Marion Ruth l s	*Madison*
Anderson, Myra	*Viola*
Anderson, Naomi	*Peru, Ind.*
Anderson, Neva Esther l s	*Superior*
Anderson, Samuel Wagner	*La Crosse*
Anderson, Simon	*Madison*
Andes, Lenore Marcia	*Shelbyville, Ill.*
Andrews, Ethel	*Lansing, Mich.*
Anspach, Charles J.	*Milwaukee*
Anstey, Helen Belinda	*Beetown*
Appel, Emanuel Gustav	*Muskegon, Mich.*
Archibald, Helen Marion l s	*Ashland*
Armfield, Helen Austin	*Elwood, Ind.*
Armstrong, Nina Faith	*Winnebago, Ill.*
Arndt, Irene Dorothy	*Crandon*
Atkin, Theresa	*Madison*
Atkins, Irma g	*Elkhart, Ind.*
Atwood, John Thomas l s	*Gays Mills*
Aufderheide, Gertrude	*Indianapolis, Ind.*
Ausman, Mary Rosa a	*Albertville*
Austin, Carlton Leroy l s	*Grand Rapids, Mich.*
Bach, Clarence Edwin l s, m	*Milwaukee*
Bach, Mark John l s, m	*Milwaukee*
Bacon, Caryl Monona l s	*Madison*
Bacon, Franklin James l s	*New London*
Bacon, Hazel	*Eureka, Ill.*
Bacon, Lee Fairchild l s	*Madison*
Baernstein, Harry Daniel l s	*Racine*
Bainbridge, Thomas Mason	*Platteville*
Baker, Aurel	*Eagle*
Baker, Elizabeth Louise	*Atlanta, Ga.*
Baker, Elma	*Hale, Mo.*
Baker, Ruth	*Lexington, Ky.*
Balderston, Anne	*Philadelphia, Pa.*
Baldis, Lillian Lucille	*Macon, Ill.*
Baldwin, Marion Elizabeth l s	*Berwyn, Ill.*
Ballard, Erminie	*Milwaukee*
Banker, Louis Curtis	*Richland Center*

Barden, Helen Angeline	*Kenosha*
Bardon, Anna Ray	*Superior*
Barker, Grace Elizabeth	*Ironton, Ohio*
Barker, Shirley Schafter	*West De Pere*
Barnes, Roy Hassett	*Burlington, Ia.*
Barnette, Bertha Elizabeth	*Lincoln Ridge, Ky.*
Barney, Grace E. l s	*Superior*
Barney, Tyler Davis l s	*Sparta*
Barr, Wallace Andre l s	*Milwaukee*
Barram, Mary Luella	*Huron, Ohio*
Barshinger, Henry Stephen	*York, Pa.*
Bartholf, Winifred	*Glencoe, Ill.*
Barrlett, Clara Clark	*Madison*
Bartlett, Harriet Dorothy l s	*Madison*
Bast, Elsie Caroline l s	*Sheboygan*
Batz, Zita B.	*Sun Prairie*
Bauer, Carl Philip	*Mandan, N. D.*
Bauer, Lydia	*Weyauwega*
Baum, William Wells	*Shelbyville, Ill.*
Baus, Irma	*Madison*
Baxter, Marcus L. l s	*Lancaster*
Bayles, Lucy Merril	*Seward, Nebr.*
Beach, Marguerite M. l s	*Ft. Atkinson*
Bean, Florence	*Lena, Ill.*
Bean, Frances Marie	*De Soto*
Beath, Bina Beula	*Evansville*
Beatty, Helen Sarah	*Quincy, Ill.*
Becker, Kathryn Virginia	*Kansas City, Mo.*
Becker, Mona Blanche	*Wausau*
Behm, Meta Adaline	*Princeton*
Belknap, Margaret Knowlton	*Waukesha*
Bell, Julia Elizabeth	*Kenosha*
Bender, Harry	*Evansville*
Bennett, Doris Louise l s	*Madison*
Bennett, Margaret Louise l s	*Twin Falls, Idaho*
Bennett, Mary Frances	*Randolph*
Bennett, Russell H.	*Minneapolis, Minn.*
Bennett, Ruth Carrie	*Grand Rapids*
Bensberg, Jere Haldeman (Miss)	*St. Louis, Mo.*
Benson, Dane (Miss)	*Battle Creek, Mich.*
Benson, Elmer Fred l s	*Clear Lake*
Benson, Josephine Edna	*Superior*
Bents, Caryl Z. l s	*Madison*
Berg, Arthur Oscar	*Muskegon, Mich.*
Berg, Benita Dolores l s	*Marshfield*
Bergerman, Melbourne l s	*Pueblo, Colo.*
Bergeson, Marian Faith l s	*Earlville, Ill.*
Bergh, Carla Jeanette	*Westby*
Bernhardt, Edmound Lloyd l s, m	*Madison*
Berryman, Amanda	*Fredericktown, Mo.*
Bertling, Adeline l s	*Wilmette, Ill.*
Beste, Curtis Frances l s	*Mosinee*
Betzer, Althea Elizabeth	*Kenosha*

Beveridge, Gladys Maurine	*Lake Mills*
Bieler, Flora	*Avondale, Cincinnati, Ohio*
Billingsley, Betty Ellen	*Galena, Ill.*
Bird, George Eaton	*Wausau*
Bishop, Bernice Olive	*Portland, Ind.*
Bistorius, Mildred	*Milwaukee*
Bitterman, Grace Vivian l s	*Madison*
Black, Harold Bowman	*Birmingham, Ala.*
Black, Mary l s	*Oklahoma City, Okla.*
Blaha, Bessie B.	*Two Rivers*
Blinston, Ruth Marie	*La Crosse*
Blodgett, Ren Loren	*Madison*
Bloodgood, David Wheeler l s	*Milwaukee*
Bloodgood, Francis Joseph l	*Milwaukee*
Bloom, Ralph Merrill	*Chicago, Ill.*
Blum, Fred Gabriel	*Monticello*
Blum, Walter L.	*Madison*
Boeing, John Kinggel	*Fargo, N. D.*
Bohnson, Roland Durfee l s	*Clinton, Ia.*
Bohrer, Joseph Fifer	*Bloomington, Ill.*
Bolger, Vera Marie	*Woodstock, Ill.*
Bollenbeck, Marcella K. l s	*Madison*
Bondies, Josephine Marie	*Galveston, Tex.*
Bondies, Laura	*Galveston, Tex.*
Booth, Zoe	*Hillsboro, Mo.*
Borchers, Gladys Louise l s	*Whitewater*
Borden, William Henry l s	*Madison*
Borge, Dagney Olivia M. l s	*Madison*
Born, Louise G.	*Milwaukee*
Bossard, G. Grant l s	*Madison*
Boundey, Alma Vater	*Milwaukee*
Bowers, Whitney Woods	*Essex Fells, N. J.*
Bowles, John Herschel l s, m	*Sheldon, Ill.*
Boyd, Philip Lennars	*Indianapolis, Ind.*
Boyington, Agnes	*Hurley*
Boylston, Elsie Re'd	*Atlanta, Ga.*
Brackebusch, Agnes Adelaide l s	*Lake Mills*
Bradley, Melcena Vereeda l s	*Sedalia, Mo.*
Brashear, Hazel Anderson l s	*Moline, Ill.*
Bratrude, Amos Presly	*St. James, Minn.*
Braun, Edward John	*Cassville*
Braunfeld, Margaret	*Milwaukee*
Breazeale, Norvil	*Meridian, Miss.*
Breene, Agnes	*Reedsburg*
Breidablik, Anna Bergitte l s	*Madison*
Brennan, Agnes Marcella l s	*Madison*
Brewster, Grace Elizabeth l s	*East Troy*
Brickels, Dorothy l s	*Waukesha*
Briggs, Howard Bovee g	*Arena*
Brigham, Mildred Josephine	*Toledo, Ohio*
Brill, Lawrence Arthur l s	*Milwaukee*
Brinckerhoff, Eva Rebecca	*Minooka, Ill.*
Brindley, John Webster	*La Crosse*

Brindley, Roy	*Boscobel*
Brittain, Catherine Elizabeth	*Quincy, Ill.*
Brockett, William M. l s	*Milwaukee*
Brockhausen, Herbert Henry l s	*Milwaukee*
Brokaw, Augustus	*St. Louis, Mo.*
Brown, Clarence Baxter l s	*Highland*
Brown, Katheryn K.	*Rhinelander*
Brown, Mary Blackledge	*St. Louis, Mo.*
Brown, Naomi Harrah	*St. Joseph, Mo.*
Brown, Susan deLaite l s	*Chicago, Ill.*
Bruce, Helen Mary	*E. St. Louis, Mo.*
Bruce, Leonard H.	*Cleveland, O.*
Bruce, Marshall Everett	*East St. Louis, Ill.*
Bruner, Mary Catherine	*Kokomo, Ind.*
Brunschweiler, Edith Harwood l s	*Appleton*
Bubolz, Anna Agnes	*Seymour*
Buckley, Bessie E.	*Plain*
Buckmaster, Sada Eleanor l s	*Madison*
Buell, Irene	*Toledo, Ohio*
Buell, Martha Merry l s	*Madison*
Bullen, Mary Staples	*Chicago, Ill.*
Bur, Catherine Hedwig l s	*Green Bay*
Burch, Helen Upton l s	*Madison*
Burgee, Norma Elaine	*St. Louis, Mo.*
Burgess, Milo David	*Stoughton*
Burgi, Margaret	*Monroe*
Burke, Esther Marie a	*Wesley, Ia.*
Burke, Joseph Peter	*Oconto*
Burke, Sturtevant Hazel	*Madison*
Burke, Thomas Nicholas l s	*Wayside*
Burneson, Alma Lillie	*St. Louis, Mo.*
Burnett, Bessie Burkholder	*Kalamazoo, Mich.*
Burnham, Constance Olds	*Waupaca*
Burns, Judd A. l s	*Madison*
Burton, Olive Maude	*Detroit, Mich.*
Busby, Fern Mae l s	*Madison*
Buswell, Pauline	*Blue Earth, Minn.*
Caldwell, Hugh McIntyre l s, m	*Poynette*
Callahan, Alice Beatrice	*Madison*
Callow, Curtis Grant	*Cobb*
Cameron, Catherine Isabelle	*Chippewa Falls*
Cammack, Emma	*Muncie, Ind.*
Campbell, Arch Philips l s	*East Ellsworth*
Campbell, Cora	*Springfield, Ill.*
Campbell, Emma Margaret	*Springfield, Ill.*
Campbell, Florence Betty	*Kansas City, Mo.*
Campbell, Leota Mae	*Toledo, Ohio*
Campbell, Margaret Eleanor	*Milwaukee*
Campbell, Mary Helen	*Milwaukee*
Candy, Mildred Roselyn	*St. Louis, Mo.*
Cape, Mary Josephine l s	*Madison*
Carden, Susie	*Indianapolis, Ind.*
Carey, Erminie G.	*Wilmot*

Carey, Michael Joseph	*Omaha, Nebr.*
Carey, Nora Sophia	*Waupun*
Carpenter, Anna S.	*Louisville, Ky.*
Carpenter, Eleanor Blake	*Louisville, Ky.*
Carroll, Clark Joseph l s	*Watertown*
Carroll, Lawrence Kinzie l s	*Madison*
Carter, Leolian	*St. Joseph, Mo.*
Carter, Lurene	*Beloit*
Carter, Warren Tuttle l s	*Burlington*
Casis, Pedro Antonio a	*Bogota, Columbia*
Caspers, Ole Hilmar l s	*Grantsburg*
Casserly, Henry Lawrence l s	*Madison*
Chadbourn, Reuben Corwell l s	*Colombus*
Chamberlain, George Henry l s	*Milwaukee*
Chamberlain, Joseph N. l s	*Des Moines, Ia.*
Chapin, Olive Katherine	*Evansville*
Chapman, Charles McCoy l s	*Shullsburg*
Chapman, Katherine Fay	*Platteville*
Chapman, Mildred	*Bluffs, Ill.*
Chase, Eleanor Delle l s	*Rockford, Ill.*
Chase, Lucille Eastwood l s	*Greeley, Colo.*
Chen, Kokuei l s	*Shanghai, China*
Cheney, Ruth Ann	*Indianapolis, Ind.*
Cheney, Wallace Ervin	*Milwaukee*
Cherry, Myrtle E.	*Grand Haven, Mich.*
Childs, Edmond Lyman	*Champaign, Ill.*
Christianar, Alice	*Cleveland, Ohio*
Christianar, Laura E.	*Cleveland, Ohio*
Christophel, Rebecca	*Elkhart, Ind.*
Church, Emeline A.	*Walworth*
Cilin, Marcus B. l s, m	*New York, N. Y.*
Clark, Harold Ames	*New York, N. Y.*
Clark, Marion Eugene l s	*Indianapolis, Ind.*
Clark, Thelma Lee l s	*Evansville*
Clark, William Arthur l s	*Madison*
Clark, William Edwin	*So. Milwaukee*
Clarke, Isabella Jane	*Kansas City, Mo.*
Clarke, Melville Robert	*Harvard, Ill.*
Claus, Pearle Elizabeth l s	*Madison*
Clauson, Elizabeth Bertha	*Red Wing, Minn.*
Clawson, Kathleen	*Galveston, Ind.*
Clement, Marie Caroline	*Proctor, Minn.*
Clough, Doris Harriet	*Oshkosh*
Coates, Charles Penney	*Madison*
Coats, Amy Lindemuth	*Detroit, Mich.*
Cochems, Kenneth l s, m	*St. Anthony, Idaho*
Cocker, Clara Isabelle	*Detroit, Mich.*
Coe, Arthur William l s	*Madison*
Coghlan, Nan	*Chicago, Ill.*
Coit, Leu Garrison l s	*Hudson*
Colby, Helen Maud l s	*Madison*
Cole, Olive Marian l s	*Brookings, S. D.*
Collins, Catherine l s	*Chicago, Ill.*

Collins, Grace	*Peru, Ind.*
Collipp, William Fulton l s	*Madison*
Colyer, Mary Lee	*Richmond, Ky.*
Comstock, Helen	*Kansas City, Mo.*
Cone, Hattie Belle	*Marshall*
Coney, Elsie Faye	*Allegan, Mich.*
Conger, Lester William	*Greenbush*
Conine, William Hinman l s	*Nowata, Okla.*
Conlin, Mary Josephine	*Columbus*
Connell, John William l s, m	*Fond du Lac*
Connell, Laura May l s, m	*Fond du Lac*
Conover, Daphne Grace l s	*Madison*
Cook, Katherine John l s	*Madison*
Coon, George Wayland l s, m	*Milton Junction*
Cooner, Lewis Day	*Pittsburgh, Pa.*
Cooper, Doris Edwina l s	*Madison*
Cordell, Elizabeth Miller J. l s	*Madison*
Correll, Ellen Fredericka l s	*Memphis, Tenn.*
Corsau, Florence Rose	*Union Center*
Cotterhill, Lola Howe	*Westminister, Md.*
Cottrell, Lois l s	*Madison*
Cowan, John W. l s	*Waltham, Mass.*
Cox, John Van Brunt l s	*Horicon*
Craig, James McIntyre l s	*Oconomowoc*
Craighill, Margaret Dorothea l s, m	*Madison*
Cramer, Lawrence William l s	*Milwaukee*
Crampton, Albert Mason	*Moline, Ill.*
Crandall, Grace Alice	*Milton*
Crane, Edna Roene	*Indianapolis, Ind.*
Crane, Eugene Edward l s	*Cornell*
Crane, Marion Louise a	*Chicago, Ill.*
Crangle, Mary Angaline	*Watertown*
Cronk, Grace Bell	*Toledo, Ohio*
Croskey, Marguerite Isabel l s	*Madison*
Crounse, Dorothy	*Glen Ellyn, Ill.*
Culhane, Frances Andrew	*Rockford, Ill.*
Cunningham, Margaret	*Mazomanie*
Curran, Hugh Grosvenor Jr.	*Pelham, N. Y.*
Currie, Earl William l s	*La Crosse*
Curry, Robert James l s	*Baraboo*
Curtis, Glenn Melba	*Martinsville, Ind.*
Curtis, Lucile l s	*Winnetka, Ill.*
Curtis, Mary Dea	*Martinsville, Ind.*
Curtis, Warren Crandall l s	*Quincy, Ill.*
Dahlberg, Doris Louise	*Galesburg, Ill.*
Dahle, Artman Hovey l s, m	*Madison*
Dahlman, Oscar Conrad l s	*Plymouth*
Dana, Marguerite C. l s	*West Allis*
Dangel, Dorothea l s	*Reedsburg*
Danielson, Adolph C. l s	*Madison*
Darcy, Anne Marie	*Hillsboro*
Darling, William Thomas	*Two Rivers*
Davies Dora May l s	*Oshkosh*

Davis, James Glenn	*Terre Haute, Ind.*
Davis, Robert W. l s	*Madison*
Dawson, Charles Nash l s	*Beloit*
Dawson, Harriet Ione l s	*La Crosse*
Day, Alice Marie l s	*St. Louis, Mo.*
Day, Florence Roberts l s	*Cleveland, Ohio*
De Base, Lucy Marie	*Stevens Point*
De Laney, Oscar l s	*Dover, N. J.*
Deming, Joseph Byron	*Madison*
Demulling, Madeline	*River Falls*
Denison, Homer Cooper	*Mellen*
Derby, Jeanette M.	*West Terre Haute, Ind.*
Dershem, Marguerite Louise	*Adrian, Mich.*
Desmond, Robert William l s	*Milwaukee*
Deuss, Edward Louis	*Sheboygan*
Devin, Yvonne	*Des Moines, Ia.*
Dewey, Maurice Adams	*Toulon, Ill.*
Dickelmann, Lorin Elmer l s	*Milwaukee*
Diebold, Frances Elizabeth l s	*Madison*
Dietrich, Mabel Caroline	*Phillips*
Dietz, Dorothy Louise a	*Chicago, Ill.*
Dinkwitz, Oscar l	*Marinette*
Doege, Paul Frederich l s, m	*Marshfield*
Doerfer, Albert G.	*Madison*
Doerr, Margaret Alice l s	*Mt. Vernon, Ind.*
Doleysh, Le Roy l s	*Two Rivers*
Donacelski, Florence	*Preston, Ia.*
Donaghey, Ivan Paul l s	*Madison*
Donald, Delma Ellen l s	*Madison*
Donald, Ernest l s, m	*Madison*
Donkle, Venice Marion l s	*Madison*
Donohue, Raymond Earl l s	*Tipton, Ia.*
Dooley, Milton Lawrence l s	*Milwaukee*
Dopp, Dorothy Jeanette	*Wild Rose*
Dopp, Dorothy Ravenhill	*Davenport, Ia.*
Dorries, Charles Wetzel l s	*Buffalo, N. Y.*
Dow, Freda Nell	*De Smet, S. D.*
Doyle, Elizabeth Mary	*Milwaukee*
Doyle, John Daniel	*Chicago, Ill.*
Doyle, Richard David	*St. Paul, Minn.*
Dragoo, Alva William	*Murdock, Ill.*
Drake, Emmet Addis l s	*Mendota*
Drake, Frances E. l s	*Mason City, Ia.*
Dredge, Thomas Joseph l s, m	*Green Bay*
Dreffein, Auria Elsie	*Oak Park, Ill.*
Dressendorfer, Loren Henry	*Fountain City*
Drew, Francis Leo l s	*McAlester, Okla.*
Dryer, Lila	*Reedsburg*
Dubin, William	*Milwaukee*
Duffrin, Cecilia Mary	*Marinette*
Duhigg, Helen Margaret	*Emmetsburg, Ia.*
Dunn, Darrell Dewey l s	*Elroy*
Dunn, George Edward	*Milwaukee*

Dusterhoft, Herman	*Hermansville, Mich.*
Dwight, Frances Elizabeth l s	*Madison*
Dye, Mary	*Salina, Kan.*
Dye, William Joseph Paul l s	*Sistersville, W. Va.*
Eagle, Maude Ethelyn	*Madison*
Eastin, Bertha Callie	*Greenfield, Mo.*
Eaton, Howard Ormsby	*Madison*
Ebbert, Bertha J.	*Montrose, Ill.*
Ede, Olive H.	*Zenda*
Edelman, Mary l s	*Sheridan, Wyo.*
Edmonds, Hobart John l s	*Wausau*
Edwards, Wilmer Charles l s	*Marion*
Egan, Howard Edward	*Madison*
Egdahl, Clarence Odie	*Schofield*
Eggerding, Theodore Henry	*Evansville, Ill.*
Eggleston, Olive Mary	*Mt. Vernon, Ohio*
Ehle, Marie Christine	*Ft. Wayne, Ind.*
Eichsteadt, Esther Carolyn	*Port Edwards*
Eisenberg, Abraham Louis l s	*Milwaukee*
Eisenhardt, Carrie	*St. Louis, Mo.*
Elder, Bernice	*Hamilton, Ill.*
Elder, Mary	*Hamilton, Ill.*
Eleston, Mary R.	*New York, N. Y.*
Elles, Aline Elizabeth	*Evansville, Ind.*
Ellingson, Arvin Belford	*Madison*
Elliott, William l s	*Madison*
Ellis, Samuel Robert	*Endeavor*
Ellison, Alice Peters	*Macomb, Ill.*
Ells, Margaret Ely	*Rockford, Ill.*
Elmendorf, Mary	*San Antonio, Tex.*
Ely, Ruth	*Duluth, Minn.*
Emmert, Bryan	*Peru, Nebr.*
Engel, Adolph Charles	*Madison*
Engelhardt, Carl John l s	*Milwaukee*
Engelhardt, Gretchen Marie	*Milwaukee*
Engelhardt, William Frederick l s	*Milwaukee*
Engelland, Mynetta M. M.	*Grant Park, Ill.*
Engle, Mary Louise	*Sullivan, Ind.*
Engler, Loretta Joen	*Ipswich, S. D.*
Erdman, Henrietta	*Park Falls*
Erickson, Edith Thelma	*West Allis*
Erikson, Leonard Frederick l s	*Chicago, Ill.*
Eschweiler, Elaine Katherine l s	*Madison*
Evans, Allie Mary	*Memphis, Tenn.*
Evans, Dorothy Charlotte l s	*Moline, Ill.*
Evans, Edward T. l s, m	*La Crosse*
Evans, Helen Alberta	*Racine*
Everett, Marie L.	*Madison*
Eversz, Helen Bell	*Ripon*
Ewald, John Frank	*Chicago, Ill.*
Eykamp, Edith	*Maryland, Ill.*
Faaborg, Erick Sophus	*Minneapolis, Minn.*
Failing, Estella Rachel	*Ottawa, Ill.*

Fairbrother, Roy	*Yuba*
Fairfield, Gordon Grey l s	*Green Bay*
Faith, Don Carlos	*Washington, Ind.*
Falk, Philip Hadley l s	*Lake Mills*
Falstad, Clarence Henry l s, m	*Eau Claire*
Farkasch, Gerta	*Madison*
Farnum, Frances	*Kansas City, Mo.*
Farrington, Joseph Rider	*Honolulu, Hawaii*
Faxon, Sallie Katherine	*Kansas City, Mo.*
Feeney, Mary Elizabeth	*Madison*
Feldmann, Louis Charles	*Milwaukee*
Felger, Otis Luther	*Grand Rapids, Mich.*
Fenner, Martha Permelia	*River Forest, Ill.*
Fertig, Esther Marie l s	*Louisville, Ky.*
Fiebiger, George John	*Waterloo*
Fiedler, Donald J. l s	*Mineral Point*
Fiedler, Ralph Oliver l s, m	*Milwaukee*
Field, Blanche Knippenberg l s	*Racine*
Field, Harold Manael	*Oelwein, Ia.*
Fieser, Louise Gertrude	*Warren, Ohio*
Fillbach, Harold Elmer	*Cobb*
Filtzer, Flora l s	*Milwaukee*
Finigan, Margery Esther	*St. Louis, Mo.*
Finsky, Morris l s, m	*Lake Geneva*
Fishburn, Katherine l s	*Madison*
Fishel, Richard Mark	*Pittsburgh, Pa.*
Fisher, Margaret Ellen	*Steubenville, Ohio*
Fisher, Marion Sims	*Galveston, Tex.*
Fisher, Roy Lee	*Wauwatosa*
Fisher, Tessie Pearl	*Warren, Ind.*
Fitch, Logan Dallas, l s	*Madison*
Fitzgerald, Charlotte l s	*Richland Center*
Fitzgerald, Robert Drake l s	*Madison*
FitzGibbon, Helen Claire l s	*Madison*
Fitzgibbons, James Maurice l s	*Monroe*
Fitzhugh, Ethel Baker	*Louisville, Ky.*
Fitzpatrick, Edward James	*Wautoma*
Flandrena, Catherine	*Hurley*
Flatz, George Henry l s	*Milwaukee*
Fleckenstein, Joseph Arthur l s	*Marshfield*
Fleischman, William Mark	*Detroit, Mich.*
Fleming, Michael Joseph	*Ely, Minn.*
Flory, Alvine Julia	*Oak Park, Ill.*
Flowers, Addison Johnson	*Pharr, Tex.*
Flynn, Marie Anna	*Milwaukee*
Fogo, Frank Euratas	*Argyle*
Folckemer, Martha Irene	*Camp Point, Ill.*
Foley, Daisy Marguerite	*Kansas City, Mo.*
Foley, Mary Frances	*Plymouth, Ill.*
Follett, Lothrop Frank l s	*Ottawa, Ill.*
Forman, Leland Monroe l s	*Neillsville*
Forsberg, Allen B. l s	*Beloit*
Foshion, Herbert Victor l s	*Brussels*

Foster, Gertrude	*Miles City, Mont.*
Foster, Joseph O'Kane	*Milwaukee*
Francis, Hugh H. l s	*Madison*
Franklin, Isabel Frances	*Oxford*
Franks, Fern Mildred	*Chicago, Ill.*
Frazer, Gladys Lucile	*Evanston, Ill.*
Frazier, Clara	*Pittsburgh, Pa.*
Frazier, Katherine	*Simpsonville, Ky.*
Frazier, Milton Reid	*Bloomington*
Free, Mary Ellene	*Neillsville*
Freeman, Winifred	*Grand Rapids, Mich.*
Freese, Herbert George l s	*Sioux Falls, S. D.*
Freitag, Helen Verena	*Monticello*
French, Grace	*Patoka, Ind.*
Frey, Noah J.	*Madison*
Frye, Margaret Jane	*Highland*
Fuchs, Harry S. l s	*Janesville*
Fuller, Agnes M. l s	*Madison*
Fuller, Dorothy X.	*Rockford, Ill.*
Gancer, Nicholas	*Chicago, Ill.*
Gannon, Mary Frances	*Kansas City, Mo.*
Gapen, Edna Courtney l s	*Whitewater*
Gardner, Louise Ina	*La Valle*
Garrels, Mildred Elizabeth	*St. Louis, Mo.*
Garwood, Ruth Emma	*Tottenville, N. Y.*
Gasey, Marie	*Chicago, Ill.*
Gault, Harry Clayton l s	*Lancaster*
Gaveney, Stanleigh Keyes l	*Arcadia*
Gehr, Bertha	*Madison*
Geil, Johanna	*Milwaukee*
Geil, Matilda	*Milwaukee*
Gerber, Amy	*Cincinnati, Ohio*
Gerds, Huldah Hedwig	*Milwaukee*
Gerken, Florence E. l s	*Madison*
Gernert, Hulda Marie Sophie	*Louisville, Ky.*
Gerritts, John Robert	*Little Chute*
Gibbon, Alex Myron l s	*Sparta*
Gibbon, Elsie Florence l s	*Somers*
Gibson, Virginia Lundy l s	*Muskogee, Okla.*
Gilberson, Clair	*Grinnell, Ia.*
Gilbert, Eleanor	*New York, N. Y.*
Gilbert, J. Vernon l s	*Sturgeon Bay*
Gilbertson, Clarence Oliver	*Stoughton*
Giles, Julia Estella	*Buffalo, N. Y.*
Gill, Covington Calhoun l s	*Grand Rapids, Mich.*
Gill, Ella	*Nashville, Tenn.*
Gilman, James Ward l s	*Evanston, Ill.*
Gilman, Robert Louis l s, m	*Oshkosh*
Gipson, Lela Ethel	*Camden, Ind.*
Girard, Ranette Bernardine	*Madison*
Gjelde, Hannah	*Madison*
Gleason, Grace Dorothy	*Ames, Ia.*
Gleason, Nellie Katherine	*Stevens Point*

Glenn, Florence Ida	*Lead, S. D.*
Glenn, Frances	*Chilton*
Glenn, Robert Ralph l s	*Prairie du Chien*
Glynn, Maude Elizabeth	*Superior*
Gnagi, Will B. l s, m	*Monroe*
Goerlitz, Frederic Omar l s	*Milwaukee*
Goetsch, Arthur Albert l s	*Madison*
Goff, Sidney Britton l s, m	*Elkhorn*
Goldberg, Ben l s	*Antigo*
Good, Francis Mary l s	*Ashland*
Goodman, Leo John	*Kendall*
Goodsite, Juanita M.	*Toledo, Ohio*
Goodwin, George A.	*Beaver Dam*
Goodyear, Charles Stewart l s	*Madison*
Gordon, Mary Randolph	*St. Louis, Mo.*
Goss, Chester Earl	*Good Hope, Ill.*
Goss, Marion Maxwell	*Oshkosh*
Goss, Victor V.	*Mondovi*
Gossard, Helen Ray	*Kansas City, Mo.*
Gould, Philip Newhall	*Evanston, Ill.*
Gould, Sarah	*Pittsburgh, Pa.*
Grady, Marian	*Madison*
Graewin, Robert Charles	*Tomah*
Graham, Alexander R.	*Racine*
Grams, Marie Helen l s	*Kansas City, Mo.*
Granger, Florence Eleanor	*Valley City, N. D.*
Grant, Louise	*Sparta, Ill.*
Grashorn, Lucille Minnie	*Paw Paw, Mich.*
Graves, Jennie Pascoe	*Harlan, Ia.*
Graves, Marian Grace l s	*Harlan, Ia.*
Graves, Mary Elizabeth	*Viroqua*
Gray, Earle Henry	*Lincoln Ridge, Ky.*
Gray, Margaret	*Menomonie*
Greco, Charles l s	*Madison*
Green, Walter Elmer	*Milwaukee*
Greene, Gladys l s	*Madison*
Greenheck, Gussi Anne	*Philipsburg, Mont.*
Greenwald, Geraldine Beyrl	*Adrian, Mich.*
Greenwood, Charles George l s	*Emerson, Ia.*
Gregg, Erma Lylas	*Decorah, Ia.*
Gregory, Horace Victor l s	*Milwaukee*
Gregory, Lawrence William l s	*Valders*
Griest, Mary Ruth	*Omaha, Nebr.*
Griffin, Ruth Angeline	*Fayette, Ohio*
Griffith, Joseph Collins	*Milwaukee*
Groffman, Harlan G. l s	*Manitowoc*
Groth, Irene Marie l s	*Jackson*
Groth, Rose	*West Bend*
Grover, Lethe Genevieve l s	*Grantsburg*
Guequierre, Jacques Pierre l s, m	*Madison*
Guffin, Helen	*Kansas City, Mo.*
Guggenheim, Irene	*Chicago, Ill.*
Gullickson, Adolph Godfrey	*Peterson, Minn.*

Gumz, Martha Emily	*Aurora, Ill.*
Gunn, Thyra Beatrice	*Quincy, Ill.*
Gustin, Fred Ernest	*Bancroft*
Gutenkunst, Charles Albert Jr. l s	*Milwaukee*
Haag, Esther Cora	*Toledo, O.*
Haberland, Erwin John l s, m	*Verona*
Habernicht, Clara Anna	*Madison*
Hackleman, Ralph Worster	*Rushville, Ind.*
Hagberg, Ida Olive	*Superior*
Hagland, Hazel Evelyn	*Chicago, Ill.*
Hagman, Walter Philip	*Marinette*
Hahn, Helen Freda	*St. Louis, Mo.*
Halbert, Frances	*Chicago, Ill.*
Hales, Ellen Barbara l s	*Mineral Point*
Hall, Lawrence Waterbury l s, l	*Madison*
Hall, Margaret Lucy	*Greenfield, Mo.*
Hall, Marion Ferris	*Evanston, Ill.*
Hall, Sydnor	*St. Louis, Mo.*
Halling, Erich Martin l s	*Milwaukee*
Halperin, Bessie	*Madison*
Halperin, Herman Bernard l s	*Madison*
Halperin, Louis Joseph	*Chicago, Ill.*
Hamacheck, Antoinette l s	*Kewaunee*
Hamblen, Jennings Bryan e	*Franklin, Ind.*
Hancock, Walker Kirtland	*St. Louis, Mo.*
Handy, Theodore Anderson	*Saulte Ste. Marie, Mich.*
Hankin, Harry l s	*Marinette*
Hansen, Hans Meyer	*Menomomie*
Hansen, Matilda	*Kenosha*
Hansen, Roy Julius	*Billings, Mont.*
Hanssen, John Louis l s	*Davenport, Ia.*
Harper, Helen Campbell l s	*Burlington*
Harrington, Alice	*Hurley*
Harrington, Florence Mary l s	*Milwaukee*
Harris, David Earl	*Lago, Idaho*
Harris, Yerda Theresa	*Abingdon, Ill.*
Harrison, Dorothy Beth l s	*Madison*
Harrison, Kathleen l s	*Madison*
Harsh, William Alexander l s	*Milwaukee*
Hart, Mae Evelyn l s	*Waunakee*
Hart, Margaret	*Wauwatosa*
Hartman, Marie Adeline	*Pittsburgh, Pa.*
Hartmeyer, Helen Ann l s	*Madison*
Hartnett, Elizabeth A.	*Racine*
Harvey, Lewis (Miss)	*Huntington, W. Va.*
Harvey, Murray Cheever	*Boston, Mass.*
Harvey, Richard Wells	*Cadott*
Hatch, Allen Eugene l s	*Spring Green*
Hauck, Esther Madeline	*Rolfe, Ia.*
Hauck, Rachael l s	*Fairbury, Nebr.*
Haug, Hannah Marie	*Spring Valley*
Haugan, Addison l s	*Elkhorn*
Haugen, William Emmert l s	*Hudson*

Hausman, Eleanor l s	*Madison*
Hawn, Vera Marie	*River Falls*
Hawthorne, Gladys Ruth l s	*Madison*
Hayes, Louis James l s	*Janesville*
Hayes, Opal Louise	*Moberly, Mo.*
Hays, Eslie Muriel	*Story City, Ia.*
Hayward, Harold Eugene	*Cooksville, Ill.*
Hayward, Ida Emily	*Plainfield*
Hazard, Charles M.	*Milwaukee*
Hazen, Harvey Duke e	*Phelps*
Head, David Barrett	*Hillsboro, Ohio*
Heath, Catherine King l s	*Green Bay*
Hedderich, Mabel Lucille l s	*La Crosse*
Heffernan, Anna E.	*Dayton, Ohio*
Heffernan, Katherine	*Dayton, Ohio*
Hehn, Anna Louise	*Rhinelander*
Heilbronner, Ralph Louis	*Milwaukee*
Heiliger, Ella Catherine l s	*Madison*
Heine, Marie Elizabeth	*Quincy, Ill.*
Held, Alva Klager	*Pittsburgh, Pa.*
Helfaer, Bertram l s	*Milwaukee*
Heller, Henry Walter	*Grafton*
Helm, Ella Florence	*Webb City, Mo.*
Helm, Martha Lena	*Webb City, Mo.*
Helwig, Flora Garlick	*Kansas City, Kan.*
Hemsing, James Franklin l s	*Milwaukee*
Henderson, Joseph Melville	*Madison*
Henderson, Monica Elizabeth	*Indianapolis, Ind.*
Hendricks, Mary Lela	*Tomah*
Hendricksen, Agnes Hope	*Chicago, Ill.*
Hendrickson, Ella Franzen l s	*St. Paul, Minn.*
Henkel, Albert John	*Lodi*
Henkel, Alma Marguerite	*Lancaster*
Henry, Martin Rudolph l s	*Grand Rapids, Mich.*
Henry, William Benjamin l s	*Oconto Falls*
Hensey, Irene Annette l s	*Ft. Atkinson*
Henshaw, Frederic Rich Jr.	*Indianapolis, Ind.*
Hentzen, Erwin Albert l s	*Milwaukee*
Hentzen, Herbert Dick e	*Milwaukee*
Herman, Estelle	*Milwaukee*
Herrold, Lloyd Dallas	*Madison*
Heseman, Earl John l s	*Evansville, Ind.*
Hesse, Lucie S.	*Madison*
Hessman, Frances	*Madison*
Hibbard, Ruth Barr	*Racine*
Hickey, James Francis	*Ithaca, N. Y.*
Hickey, M. Catherine l s	*Reedsburg*
Hicks, Marion Adah l s	*Madison*
Hicks, Myldred Amy	*Battle Creek, Mich.*
Hield, Charles Raymond	*Janesville*
Hill, Eleanor Norwood	*Detroit, Mich.*
Hill, Florence Jane	*Superior*
Hill, John Orenzo	*Rockton*

Hill, Lydia Alice	*Lake Geneva*
Hill, Violet	*Cumberland*
Hillstrom, Ellen l s	*Madison*
Himmler, Lowell Whitman l s	*Washington, D. C.*
Hindman, Harry Hingston	*Madison*
Hinkins, Marcia Nelson l s	*Chicago, Ill.*
Hinrichs, Lenore Helen	*Wolcott, Ia.*
Hintze, Laura	*St. Louis, Mo.*
Hirsheimer, Earl Spencer l s	*La Crosse*
Hittner, Vernon James l s, m	*Seymour*
Hoadley, Guy Waterman	*Platteville*
Hoag, Harold Brown l s	*La Grange, Ill.*
Hoagland, Grace Bishop	*Peoria, Ill.*
Hoagland, Merica E. (Miss)	*Indianapolis, Ind.*
Hoard, Marjorie Jean l s	*Sharon*
Hobbins, William Suhr l s	*Madison*
Hobbs, Merville Kummer l s, l	*Platteville*
Hodgins, Gerald Burgh l s	*Madison*
Hodson, Rebecca Bell	*Galveston, Tex.*
Hofer, Louise	*Madison*
Hofer, Walter Caesar	*Cleveland, Ohio*
Hoffman, Johanna E.	*Appleton*
Hoffman, William Edward l s	*Lyndhurst*
Hoffmann, Martha Leone	*Dubuque, Ia.*
Hoffmeier, Helen Weiser	*Hagerstown, Md.*
Hofsoos, Selma Bertha	*Stevens Point*
Holbrook, William Floyd l s	*Cameron*
Holcombe, Ray Edward l s	*Madison*
Holdahl, Agnes Sophie	*Ellsworth*
Holden, Helen Eliza a	*Whitehall, Mich.*
Holford, Frances Elizabeth	*Cassville*
Hollatz, Clarence Alexander l s	*Madison*
Holloway, Clyde Curtis	*Hoopeston, Ill.*
Holmburg, Frances Estelle	*Madison*
Holmes, Albert Allen	*Camp Point, Ill.*
Holmes, Ellen Caroline	*Roscoe, Ill.*
Holmes, Jean Olive	*Indianapolis, Ind.*
Holter, Hieronymus Hyerdahl l s	*Christiania, Norway*
Holtz, Minnie Emma	*Ableman*
Holzinger, Lillian Esther l s	*Lancaster*
Honaas, Clara	*Elk Mound*
Hood, Eva	*North Prairie*
Hopkins, Viola Elizabeth Barbara	*Madison*
Hoppert, Carl Arthur l s	*Sheboygan*
Hoppin, Edith	*Milwaukee*
Hornback, Edward Rodes	*Hannibal, Mo.*
Hornback, John Jacob	*Huntington, Ind.*
Horwitz, Lazarus Herman l s, m	*Sheboygan*
Hosoya, Toshi	*Tokio, Japan*
Hougen, Horace Perceval l s	*Durand*
Hough, Vera Alice	*Janesville*
Houston, Walter Charles	*Milwaukee*
Howard, Margaret l s, m	*Portland, Ore.*

Howell, Etta Hudson	*Winona, Minn.*
Hrdina, Amelia	*River Falls*
Hubbell, Ernest Hamand l s	*Kansas City, Mo.*
Hubble, Helen M.	*Madison*
Huber, Herman Harry l s m	*Milwaukee*
Huebner, Auguste	*Indianapolis, Ind.*
Huebner, Elsa	*Indianapolis, Ind.*
Huebner, Frieda, M.	*Indianapolis, Ind.*
Huffman, Prudentia Crawford	*Detroit, Mich.*
Hughes, Margaret Mary l s	*Madison*
Hughes, William Arthur l s	*Carrollville*
Hughitt, Anna Lue	*Escanaba, Mich.*
Hull, Francis Delvin	*Indianapolis, Ind.*
Humphrey, Mae Maude	*Sapulpa, Okla.*
Hunt, Edna Irene	*Moravia, Ia.*
Hunt, Lydia Elizabeth l s	*Madison*
Hunt, Marion Joscelyn	*Greenwood*
Huntting, Laura l s	*McGregor, Ia.*
Hurd, Bertha Frances	*Joliet, Ill.*
Hurley, Edith Belle l s	*Fox Lake*
Husted, Stanley F.	*Bloomington, Ill.*
Huston, Elizabeth l s	*Paris, Ill.*
Hutchinson, Richard Westervelt	*St. Paul, Minn.*
Hyland, Mary Frances	*Grand Rapids, Mich.*
Hyman, Lenore Helene	*Lima, Ohio*
Hyslop, Volney Butman l s	*Madison*
Ingalls, Louise Pebbles l s	*Oak Park, Ill.*
Ingli, I. Gwendolen l s	*Ellsworth*
Isaacson, Inez May	*Spring Valley*
Isaacson, Myrtle May	*Superior*
Iversen, Agnes Mathilde l s	*Stoughton*
Ivey, Everett D. l s, m	*Millston*
Izard, Mrs. Ralph	*Milwaukee*
Jackson, Ella Anna	*Woodsfield, Ohio*
Jackson, Mabel Bond l s	*River Forest, Ill.*
Jackson, Mildred A. l s	*Dallas, Tex.*
Jackson, Silva Lucinda	*Woodsfield, Ohio*
Jacobi, Florence Ethel	*Mondovi*
Jacobs, Emil e Van Beil	*Philadelphia, Pa.*
Jacobs, Isabel Maude	*Philadelphia, Pa.*
Jacobs, Nettie	*Chicago, Ill.*
Jaeger, Emma Anna	*Marinette*
James, Getta Marie	*Clinton, Ind.*
James, Mary Alice	*Richland Center*
Jamieson, Helen May l s	*Poynette*
Jantz, Edward Frank	*Oshkosh*
Jencks, Vescey Belle	*Lodi*
Jennerjahn, Harold Lawrence	*Appleton*
Jennings, Elsa Gertrude	*Milwaukee*
Jennings, Mary Carolyn	*Wautoma*
Jensen, Myrtle	*Wild Rose*
Jewell, Eleanor Mary l s	*Grand Rapids, Mich.*
Jillson Mary Esther	*Milwaukee*

Johnson, Agnes Hansena	*Markesan*
Johnson, Albert Ferris	*Oshkosh*
Johnson, Arnold Walter	*Chicago, Ill.*
Johnson, Carolyn Johanna	*Hollandale*
Johnson, Claire Carothers	*Noblesville, Ind.*
Johnson, Edna Onetta	*Marinette*
Johnson, Esther Georgine	*Wilton*
Johnson, George Hopkins	*Madison*
Johnson, George Olaf	*Port Wing*
Johnson, Goldie Leona	*Perry, Ia.*
Johnson, Grace	*Chicago, Ill.*
Johnson, Imogene H.	*Kahoka, Mo.*
Johnson, Ruth Ellsworth l s	*Madison*
Johnson, Verna Jessie	*Minier, Ill.*
Johnstone, Cassie	*Madison*
Jones, Arthur N. l s	*Shullsburg*
Jones, Doris Elizabeth	*Madison*
Jones, Eleanor Jane	*Oshkosh*
Jones, Elfie Hazel	*Newtown, Mo.*
Jones, Ethel	*Cleveland, Ohio*
Jones, Harrison John	*Platteville*
Jones, Vesta Norine l s	*Madison*
Joseph, Mildred Cecile	*Richland Center*
Jung, Alma	*Kewaskum*
Jung, Clarence S. l s	*Milwaukee*
Jupp, Anne Louise	*Milwaukee*
Kahn, Helen Frances l s	*Galveston, Tex.*
Kalemkarian, Charley George	*West Philadelphia, Pa.*
Kales, Elizabeth	*Winnetka, Ill.*
Kalkhurst, Grace Edith	*Beaver Dam*
Kanske, Esther Mary	*Kiel*
Karlson, Gideon Olof	*Milwaukee*
Kasiska, William Herman	*Baraboo*
Kautsky, Ruth l s	*Colby*
Kavanaugh, Michael Francis	*Watertown, S. D.*
Kearns, Edward Peter l s, l	*Madison*
Keliher, John	*Madison*
Keliher, Margaret G.	*Madison*
Kellogg, Horace Banter l s	*Antigo*
Kellogg, Julia Adams	*Milwaukee*
Kelly, Anna Estella	*Kilbourn*
Kennedy, James Marvin l s	*Louisville, Ky.*
Kennedy, Mae	*Decatur, Ill.*
Kenney, Dora Catherine	*Milwaukee*
Kernan, Katheryn Elma l s	*Madison*
Kersey, Mabel Florence	*Owensboro, Ky.*
Kessenich, Lucille l s	*Madison*
Kesten, Homer l s	*Milwaukee*
Kidder, Earle Elton l s, m	*Madison*
Kieckhefer, Herbert Martin	*Milwaukee*
Kieley, Mary Edna	*Pittsburg, Pa.*
Killilan, Catherine A.	*Chicago, Ill.*
Kimbrell, Helen Lou	*Fulton, Mo.*

Kingston, Agnes Ann l s	*Three Lakes*
Kinne, Constance l s	*Elkhorn*
Kirsten, William Charles	*Milwaukee*
Kirwin, Francis Philip l s	*Madison*
Kischel, Goldes Vilas l s	*Wausau*
Kitselman, Mildred l s	*Muncie, Ind.*
Kittleson, Arthur Isak	*Madison*
Klein, Theodore Whitney	*Ft. Atkinson*
Klingaman, William David	*Yuba*
Klantz, Vera Vesta	*Freeport, Ill.*
Knappen, Lawrence Stevens l s	*Brookings, S. D.*
Kneevers, Earl Edward l s	*Sheboygan*
Knight, Florence Trenary	*Mineral Point*
Knippel, Susan Jane	*Milwaukee*
Knoll, Eleanore J.	*Milwaukee*
Knoll, Marie Alma	*Milwaukee*
Knorr, Lincoln Dewey l s	*Madison*
Knowles, Edith Gray l s	*Philadelphia, Pa.*
Koch, Irwin Abe	*Toledo, Ohio*
Koch, John Ralph l s	*Janesville*
Koehler, Henry George l s	*Ripon*
Koehn, Beatrice Zillier	*Sheboygan*
Koetzli, Dorothy Harriet	*St. Louis, Mo.*
Kohl, Philip Tracy	*Wayne, Nebr.*
Kolda, Felix Oliver	*Lesterville, S. D.*
Kollath, Lillie A.	*Wausau*
Koltes, Cecilia Lucille	*Dane*
Kopp, Ida	*Watertown*
Kozelka, Adolph William	*Mishicot*
Kozelka, Frank Ludwig	*Mishicot*
Kramer, Erwin Albert	*Chicago, Ill.*
Kraus, Frances Marie	*Marinette*
Krauth, Marguerite l s	*Phillips*
Kremers, Carl Gerhard	*Madison*
Kremers, Laura Ruth l s	*Madison*
Kretlow, Fred Albert	*Milwaukee*
Kropf, Dorothy Ann l s	*Madison*
Krueger, Hattie Ottelia l s	*Stevens Point*
Krueger, Viola Louisa	*Charles City, Ia.*
Krumm, John Frederick l s, m	*Chicago, Ill.*
Kuehl, Frank William l s, l	*Fountain City*
Kuehner, Conrad Louis	*Cedarburg*
Kuehner, Herman William	*Cedarburg*
Kuenzli, David Benjamin l s	*Milwaukee*
Kulzick, Marguerite Catherine	*Milwaukee*
Kumhera, Eleanor Margaret	*Muscoda*
Kurath, Ernst	*Milwaukee*
Kurz, Martha	*Madison*
Kutz, Russell Merrill	*Jefferson*
La Follette, Philip Fox	*Madison*
Lamb, Charlotte Elizabeth	*Waterloo, Ia.*
Lambrecht, Marguerite l s	*Madison*
Lammers, Adrian Lucius l s	*Chicago, Ill.*

Lamoreaux, Edison Simon	*Edgerton*
Lancaster, Ruth	*Downers Grove, Ill.*
Lane, Grace Alice	*Eagle*
Lane, Martha Kathryn	*Macomb, Ill.*
Langen, Bertram Byron a	*Cincinnati, Ohio*
La Perriere, Nellie Marie	*Menominee, Mich.*
Larkin, John Lawrence	*Whitewater*
Larsen, Alantser F.	*Crivitz*
Larsen, Gustav Anders	*Madison*
Larsen, Le Ora	*Brigham City, Utah.*
Larson, Nora E.	*Eau Claire*
Larson, Ralph Elliot l s	*Madison*
Lauman, Grace L. l s	*Breckenridge, Mo.*
La Velle, Nellie	*Omaha, Nebr.*
Lawrence, Lucile	*Wausau*
Lawson, Helen Elizabeth	*Menasha*
Lawson, Ilda Gentry	*Nowata, Okla.*
Layde, Joseph Bernard	*Wausaukee*
Leach, Paul Howard	*Joliet, Ill.*
Lean, Cora L.	*Dousman*
Le Clercq, Edith l s	*Dallas, Tex.*
Lee, Harriet Eliza	*Baraboo*
Lee, Margaret Irene l s	*Madison*
Lefebvre, Ruth Cecil	*Green Bay*
Lehman, Jane S. l s	*Madison*
Leib, Benjamin Wiley	*Anna, Ill.*
Leinenkugel, Theresa A.	*Eau Claire*
Le Jeune, Estelle Marie	*Jeanerette, La.*
Lemly, Evelyn Wharton	*Hot Springs, Ark.*
Lennie, Lauretta Veronica	*Eau Claire*
Leonhard, George Jacob Jr. l s	*Marshfield*
Leonhiser, Wilomine	*Akron, Ohio*
Leraan, Gudrun Irene	*Superior*
L'Estrange, Gerald A. l s, m	*Milwaukee*
Lew, George Herman	*Chicago, Ill.*
Lewis, Frances	*Dodgeville*
Lewis, Margaret Jane l s	*Madison*
Lewis, Mary Parks	*St. Louis, Mo.*
Le Wohl, Francis Herman l s	*Madison*
Ley, Hilda Margaret l s	*De Pere*
Ley, Leoceda Marie	*De Pere*
Lichtenwalner, Ray Peter l s	*Monroe*
Lieberthal, Paul Eugene	*Chicago, Ill.*
Lighty, Harold Kant l s	*Madison*
Lind, Marjorie Ruth l s	*Hillsboro*
Lindahl, George Edward l s	*Chicago, Ill.*
Lindley, Lynnette I. l s	*Appleton*
Lindsay, Margaret	*Naperville, Ill.*
Lindsay, Margaret Isabelle	*Manawa*
Lindsay, Ruth Kingsley	*Lincoln, Nebr.*
Lindsey, James Milton l s	*Boise, Idaho*
Lindstrom, Gustaf Thorsten	*Moline, Ill.*
Lingenfelder, Doris Amy	*Norfolk, Nebr.*

Lingenfelder, Julia Anna a	*Norfolk, Nebr.*
Little, Theresa	*Peshtigo*
Livingston, Anna Rose	*Kankakee, Ill.*
Livingston, William Francis l s	*Madison*
Llowe, Jennie Printice	*Wabeno*
Lloyd, Marguerite	*Indianapolis, Ind.*
Lodwick, Agnes Isabel	*Ferguson, Mo.*
Loewenthal, Richard Joseph l s	*Chicago, Ill.*
Lombard, Ruth Ida	*Wausau*
Long, Ona	*Leeds, Mo.*
Longaker, Duane Sill l s	*East Aurora, N. Y.*
Longbotham, Gilmore Thomas	*Platteville*
Loos, Clara	*Milwaukee*
Loos, Elsie Elanore	*Milwaukee*
Lorenz, Ellen	*Madison*
Lowe, John William l s, m	*Whitehall*
Luck, Charles Carlton l s	*San Marcos, Tex.*
Luckey, Ruth Campbell l s	*Madison*
Ludd, Boyd Carleton	*Milwaukee*
Luedke, Flita Josephine	*Plymouth*
Lummis, Effie Florence	*Quincy, Ill.*
Lupient, George Dennis	*Superior*
Lushbaugh, Grace Mabel	*South Bend, Ind.*
Lutterman, Leo L.	*Crandon*
Lycan, Lydia Belle	*Paris, Ill.*
Lynch, Anna May	*Kilbourn*
Lynch, Rachel	*Allenton*
Lyons, Maude May	*Brodhead*
McCaffery, Arthur Lawrence l s	*Madison*
McCandless, Donald Sisson l s	*Davenport, Ia.*
McCarthy, Alyce Mae	*Coleraine, Minn.*
McCarthy, Helen l s	*Madison*
McClelland, Adele Burton	*Clinton, Ill.*
McClelland, Ruth Marie l s	*Findlay, Ohio*
McClintock, Barbara Elizabeth	*Bartlesville, Okla.*
McClintock, Mabel	*Bartlesville, Okla.*
McColl, William F.	*Roberts*
McCormick, Ethel Agnes	*Detroit, Mich.*
McCoy, Bruce Riege l s	*Sparta*
McCoy, Frank Adelbert l s	*Tonawanda, N. Y.*
McCrea, May Nessie	*Kiowa, Okla.*
McCrory, John Raymond l s	*Waterford*
McDonald, Edward Martin l s	*Beaver Dam*
McDonald, Helen l s	*Valentine, Nebr.*
McDonald, Iva l s	*Markesan*
McDonald, Martha	*Elsberry, Mo.*
McFadgen, Mary Harriet	*Chicago, Ill.*
McFarland, Evelyn l s	*Cairo, Ill.*
McGarty, Michael Edmund l s, m	*Mauston*
MacGinnis, Charles Pattison l s	*Pittsburgh, Pa.*
McGuinness, Margaret Louise	*Dexter, Mich.*
McKay, Lewis Pound	*Wheaton, Ill.*
McKay, Ruth Marie	*Wausau*

McKeen, John C.	*Bear Lake, Mich.*
McKenna, Mary Rosalie	*Dixon, Ill.*
MacLachlan, Margery Jean	*MacFarland*
MacLean, Chester Eugene l s	*Beloit*
MacLean, Margaret Elizabeth	*Beloit*
McLeran, Donald Ogden	*Hinsdale, Ill.*
McLouth, E. Edith	*Medina, Mich.*
McMahon, Anna Louise	*Greenville, Ohio*
McMeans, Margaret Collins l s	*Davenport, Ia.*
MacMillan, J. Irene	*Elroy*
McNicholas, Marguerite Martha	*Plymouth*
McNutt, Lila Elizabeth	*Hortonville*
McPherrin, John Wertz l s	*Des Moines, Ia.*
MacRavey, Frank William Jr.	*Madison*
Machlis, Samuel Arthur l s m	*Madison*
Mackay, Ralph Sutherland l s	*Milwaukee*
Mackwitz, Vera Caroline	*Fort Wayne, Ind.*
Magenis, Alice	*Indianapolis, Ind.*
Magenis, Ellen	*Indianapolis, Ind.*
Maier, Victor Irwin l s	*Mellen*
Maiers, Joseph Adam e	*Platteville*
Mainland, William B. l s	*Oshkosh*
Mandel, Walter F. l s	*La Grange, Ill.*
Mandelker, Martin l s	*Milwaukee*
Mandl, Bernhard Maurice	*Chicago, Ill.*
Mann, Berthold Charles l s	*Mayville*
Mann, Frederick John l s	*Evansville, Ind.*
Mann, Gustav Bruno Jr. l s	*Evansville, Ind.*
Mann, John Paris	*Oshkosh*
Mann, Mary	*Mayville*
Mann, Nina	*Lake Benton, Minn.*
Mann, Winnie Jane	*Madison*
Manning, Charles Edwin	*Hartford*
Manson, John Nicolls Jr. l s	*Wausau*
Marchesseau, Paul Francis	*Elkhart, Ind.*
Mariategin, Benjamin e	*New York, N. Y.*
Markhart, Florence Lulu	*Marine City, Mich.*
Marks, Edith Gertrude	*Michigan City, Ind.*
Marshall, Elizabeth l s	*Madison*
Marshall, Jane Ramsay Grant	*Lake Forest, Ill.*
Martens, Frieda Catherine	*Mayville*
Martin, Alma Augusta	*Baraboo*
Martin, Caryl Gwins	*Providence, Ky.*
Martin, Fred Charles	*Wautoma*
Martin, Neva	*Darlington*
Martinson, Arnold Bohn l s	*Minneapolis, Minn.*
Marx, Marcellus Lee	*Detroit, Mich.*
Mason, Eva Taylor	*Louisville, Ky.*
Matchette, William H., Jr. l s	*Madison*
Mathews, Mary Ethel	*Colfax*
Mathison, Hagert Waldemar	*Shawano*
Matravers, Chester Harold l s	*Oconto*
Matthews, Annie Laura	*St. Louis, Mo.*

Matzen, Herbert James	*Milwaukee*
Mautz, Bernhard Meyer l s	*Madison*
Maxwell, Mary Wilson l s	*Marshalltown, Ia.*
Maxwell, Vivienne Virginia	*Merrillan*
May, Geneva Irene	*Chickasha, Okla.*
May, Kellie	*Chickasha, Okla.*
Mazzorana, Amelia	*Spring Valley, Ill.*
Meade, Anna	*Danville, Ill.*
Medenwald, Verna Anne	*Chicago, Ill.*
Mehre, Frederic William	*Glenbeulah*
Meier, Paul Adrian l s	*Plymouth*
Melcher, Burton Walters l s	*Madison*
Mercer, Nelle Mae	*Crandon*
Merrill, Inez Chapman	*Pardeeville*
Merrill, Willard Doris l s	*Orofino, Idaho*
Metcalf, Lael Frances l s	*Spring Green*
Mettler, Elsie Mae	*Superior*
Metts, Cecyle	*Knob Noster, Mo.*
Metzker, William Martin l s	*Milwaukee*
Meyer, Ben M.	*Colby*
Meyer, Sylva	*Madison*
Meyers, Emma	*St. Louis, Mo.*
Meyers, Helen l s	*Evansville*
Michaels, Etta M.	*Berlin*
Michie, Catherine Martin	*Milwaukee*
Millard, Robert Dinsmore l s, m	*Antigo*
Miller, Fannie l s	*Milwaukee*
Miller, Florence l s	*Ellsworth*
Miller, Florence R.	*Racine*
Miller, George Francis	*Menomonie*
Miller, Mabel Amelia	*Fennimore*
Miller, Russell Howard l s, m	*Whitewater*
Miller, Ruth Beatrice l s	*Alma Center*
Mills, Anna Mary	*Decatur, Ill.*
Mills, William Keneth l s	*Hazel Green*
Miner, Ernest D.	*Eau Claire*
Miner, Ruth	*Cavour, S. D.*
Mitchell, Florence l s	*Sun Prairie*
Mitchell, Hilda Carter	*Eloro, Mexico*
Mitchell, Jessie Marie	*Sun Prairie*
Moe, Orpah Ruth l s	*Chetek*
Moehlmann, Karl Frederick Herbert	*Sprageville, Ia.*
Moeller, Albert John	*Chicago, Ill.*
Mohler, Jennie Edith	*East Cedar Rapids, Ia.*
Molan, John Henry	*Manchester, N. H.*
Moll, Emil L.	*Burlington, Ia.*
Monk, Floyd J.	*Neillsville*
Montgomery, Ray (Miss)	*Bryan, Tex.*
Moodie, Elizabeth Irvine	*Watertown, S. D.*
Moore, Alice Louise	*Milwaukee*
Moore, Anne Evelyn l s	*Watertown*
Moore, Ellen Bertha	*Madison*
Moreau, Fred James	*Casco*

Morehouse, Lillian Maude l s	*Elkhart, Ind.*
Morgan, Gretchen Mae	*Wausau*
Morman, Wade Hampton l s	*Wausau*
Moroney, John Rodgers l s	*Dallas, Tex.*
Moroney, William Joseph Jr. l s	*Dallas, Tex.*
Morrell, Percy Edward	*Milwaukee*
Morris, Francis Joseph l s, m	*Madison*
Morrison, Maude Medora	*Chetek*
Morrison, Otis Guy	*Galesburg, Ill.*
Morrissey, Lewis William l s	*Madison*
Morse, James Todd l s	*Gifford, Ill.*
Mosher, Nelson Hunter	*Mt. Pleasant, Mich.*
Moshure, Nina	*Northville, S. Dak.*
Moss, Walter King	*Milwaukee*
Moss, Winifred l s	*Milwaukee*
Moyer, Julia Anne	*Monroe*
Muellenschlader, Helen A.	*Milwaukee*
Mueller, Alphons Robert l s	*La Crosse*
Mueller, Emma Caroline l s	*Madison*
Mueller, Gustav Gottlieb l s	*Princeton*
Mulder, Anna Dell	*Spring Lake, Mich.*
Mulholland, Agnes A. l s	*Manitowoc*
Munro, Eleanor Lopez	*Indianapolis, Ind.*
Muntor, Craig Wilson	*St. Louis, Mo.*
Murch, Earle H.	*Janesville*
Murphy, Daniel Francis l s	*Chicago, Ill.*
Murphy, Lawrence William l s	*Madison*
Murphy, William John	*Chilton*
Muskat, Harry l s	*Milwaukee*
Mykel, Kathryn C. l s	*Weyauwega*
Nachtwey, Charlotte	*Dorchester*
Nautz, Alice Carr	*Toledo, Ohio*
Nay, John Willard	*Chicago, Ill.*
Nebel, Harold g m	*Milwaukee*
Neely, Mary Emily Bradley	*St. Joseph, Mo.*
Neff, John Byron	*Madison*
Nehls, Ella Frances	*Arlington Heights, Ill.*
Nelson, Alfred Lincoln	*Beloit*
Nelson, Arthur Tillman l s	*La Crosse*
Nelson, Jessie Turley	*Dunedin, Fla.*
Nelson, Kathryn l s	*Manitowoc*
Nelson, Laura Goree	*Dunedin, Fla.*
Nelson, Mark Snowden l s, m	*Canton, Ill.*
Nelson, Paul Albert	*Oak Park, Ill.*
Netherwood, Mirbelle l s	*Madison*
Netzow, Olive Olga	*Milwaukee*
Neubauer, Paul Frederic	*Milwaukee*
Newell, Lynn Fields l s	*Oshkosh*
Newlun, Chester Otto	*Marshfield*
Newman, Grace Mary	*St. Louis, Mo.*
Newsome, Verna Louise	*Waupaca*
Nichols, Frances Agnes	*Edgerton*
Nicolai, Fred Ernest	*Milwaukee*

Niedermeyer, Carrie	*Omaha, Nebr.*
Niedermeyer, Sara	*Omaha, Nebr.*
Niesen, Alfred Joseph	*Saukville*
Nightingale, Agnes Felicia	*Antigo*
Nissen, Laura Emelia Hagerup l s	*Madison*
Nisnonger, Conrad	*Providence, Ky.*
Nixon, Ruth A.	*Beloit*
Noah, Ruth	*Stoughton*
North, John Kenyon l s	*Houston, Tex.*
Novack, Catherine Blanche	*Kenosha*
Nutter, Jean S.	*Young, Sask., Canada*
Nutter, Lucile Adeline l s	*Sac City, Iowa*
Nutter, Parks Adair	*Martinsville, Ind.*
Nuzum, Florence	*Janesville*
Nuzum, Marguerite Frances l s	*Madison*
Nuzum, William Alva	*Madison*
Nyborg, Harold Godtfred	*Union Grove*
O'Brien, John Nelson e	*Darien*
O'Brien, Ruth Marie	*Milwaukee*
O'Connor, George McGregor a	*Madison*
O'Connor, Nona	*Berlin*
Oehler, Bernice Olivia	*Lake Mills*
Oesau, Theodore J.	*Milwaukee*
O'Grady, Elizabeth Cecelia	*Madison*
O'Hara, John James	*Milwaukee*
O'Hara, Winifred K.	*Wonewoc*
O'Keefe, Aileen Elizabeth l s	*Waunakee*
O'Keefe, Lucille Elizabeth l s	*Madison*
O'Keeffe, Alexis Wyckoff l s	*Madison*
O'Laughlin, John Richard l	*Madison*
Olcott, Emma	*Milwaukee*
Olds, Helen Brunette l s	*Albany, Ill.*
Olin, Irene Hazel	*Florence*
Olmsted, Helen Maria Holden	*Washington, D. C.*
Olsen, Lucille Eleanor l s	*Madison*
Olson, Clara Josephine	*Marinette*
Olson, Helen Marie	*Galesburg, Ill.*
Olson, William Otto l s	*Wautoma*
O'Neil, Margaret Ethel	*Cloquet, Minn.*
Orr, Robert C. l s	*Waukesha*
Orvald, Bessie Henrietta	*Superior*
Osborn, Eighmy-bell l s	*Madison*
O'Shea, Stanley Daniel l s	*Madison*
Oskamp, Alexander McLeod l s	*Wyoming, O.*
Osmun, William Leroy	*Muskegon, Mich.*
Osterndorf, Fred Peter	*Woneowc*
Ostlund, Elvira Otilia l s, m	*Butte, Mont.*
Ostrander, Marguerite	*Richland Center*
Ostrum, Avada Allen	*Hancock*
Ostrum, Helen May	*Hancock*
Ostrum, James E.	*Hancock*
Overdorf, Mabel G.	*Johnstown, Pa.*
Overton, Orrin Van l s, m	*Beloit*

Owen, LeRoy David	*Chicago, Ill.*
Ozburn, Marguerite Helen l s	*Oregon*
Pabst, Pauline Theckla l s	*Oconomowoc*
Page, Irvine Heinly	*Indianapolis, Ind.*
Paine, Wendell Wyman l s	*Milwaukee*
Palmer, Emily	*Ottawa, Ill.*
Palmer, Frances Idalen	*La Crosse*
Palmer, Joseph Fowler	*East Aurora, N. Y.*
Park, Verna Inez	*Springfield, Ill.*
Parkinson, Myra a	*Madison*
Parmelee, Harriet Eliza	*East Cleveland, Ohio*
Parmley, Hermann Joseph l s	*Mineral Point*
Passmore, Josephine Bloodgood l s	*Milwaukee*
Paterson, Isabel Stuart	*Appleton*
Patterson, Bernard Cicero	*Decatur, Ill.*
Patterson, Bertie	*Cleveland, Ohio*
Patterson, Dorothy Jean	*Appleton*
Patterson, Franklin Joel	*Cleveland, Ohio*
Patterson, Mary Helen	*Cleveland, Ohio*
Patton, Helen Myrtle	*Juda*
Paul, Harold Henry l s	*Milwaukee*
Paul, Olin i s, m	*Colby*
Paulson, Clara Olive l s	*Hollandale*
Payne, Mary Camille	*Kansas City, Mo.*
Pearson, Hannah Elizabeth	*Muskegon, Mich.*
Pearson, Ralph Jenkins, l s	*Madison*
Pease, Harlow H. l s	*Wauwatosa*
Pedigo, J. Paul, l s	*Pueblo, Colo.*
Peebles, Lois	*Boone, Ia.*
Perlman, Henry Bernard l s	*Madison*
Petersen, Edward Nohl	*Florence*
Peterson, Clarence Theodore	*Dubuque, Ia.*
Peterson, Esther Jenny	*Marinette*
Peterson, James Andrew, Jr.	*Chicago, Ill.*
Peterson, Leo Willis l s, m	*Granton*
Peterson, Marvin Garfield l s, m	*Geneva, Ill.*
Peterson, Ruth Agnes l s	*Wausau*
Pett, Ernest H. l s	*Johnson Creek*
Pfeifer, Oliver Wendell	*Sheboygan Falls*
Pfeil, Mae Marie	*Richmond, Ill.*
Pflueger, John Seiberling	*Akron, Ohio*
Pflueger, Theodore Seiberling	*Akron, Ohio*
Philipp, Cyrus Lucius l s	*Milwaukee*
Pickard, Anna Belle	*Omaha, Nebr.*
Pickard, William John l s	*Evanston, Ill.*
Pickel, Laura Catherine	*Kirkwood, Mo.*
Pickell, Ruth Deborah	*Humboldt, Ia.*
Pickerel, Marie T.	*Springfield, Ill.*
Pinkerton, Elizabeth Brumback	*McConnelsville, Ohio*
Pitts, Joseph Samuel	*Libby, Mont.*
Place, Olive Blanche	*Pennville, Ind.*
Platt, Marion Louise	*Manitowoc*
Plumb, Eugenia Langson l s	*Milwaukee*

Poertner, Dorothy l s	*St. Louis, Mo.*
Pointer, Ruth l s	*Birmingham, Ala.*
Polk, Ralph Weiss	*St. Joseph, Mo.*
Porter, Harriet Eddy	*Washington, D. C.*
Portwood, Cleo Edna	*Decatur, Ill.*
Potter, Donald Williams l s	*Madison*
Potter, Mary Elizabeth	*Indianapolis, Ind.*
Potter, Mildred Alleane l s	*Stanley*
Powell, Evelyn	*Baltimore, Md.*
Powell, Lady May	*Madison*
Powles, F. Stanley	*Berlin*
Prange, Henry Carl Jr.	*Sheboygan*
Pratt, Lilian Emma	*Oakfield*
Prichett, Mary Josephine l s	*Mankato, Minn.*
Probst, Fredrica Sebold	*St. Louis, Mo.*
Puckett, Walter C. l s	*Rock Rapids, Ia.*
Purcell, Adah Lucille	*Waupun*
Quarberg, Isabelle Emma l s	*Mondovi*
Quentmeyer, Phillip Carl	*Watertown*
Quicksell, Howard Allison	*Ft. Wayne, Ind.*
Quimby, John Alvan l s	*Sheboygan*
Quinnell, Elizabeth	*Columbia*
Quisling, Sverre l s, m	*Madison*
Race, Margaret Worth	*DePere*
Rackerby, Sue Henry	*Kansas City, Mo.*
Raeder, Lester William	*Cedarburg*
Ragatz, Lowell Joseph l s	*Madison*
Ragland, Margaret	*Paris, Tex.*
Raible, Charles Greif	*Cleveland, Ohio*
Ramsay, Lillian Fay	*Kilbourn*
Ramstad, Olinda Cristina	*Superior*
Randall, Ella	*Quincy, Ill.*
Randolph, John Binford l s, l	*Lafayette, Ind.*
Rath, Floyd Cecil l s	*Madison*
Rathbun, Marion Julia	*Madison*
Rau, John Max	*Chicago, Ill.*
Raube, Herbert A. l s, m	*Waupun*
Ray, Dorothy Margarette	*Madison*
Reed, Carol Elizabeth l s	*Blue River*
Reed, Zelpha Eliza l s	*Madison*
Rees, Edith W.	*Johnstown, Pa.*
Reese, Belle	*Milwaukee*
Regan, Michael Patrick l s	*Milwaukee*
Reilly, Leo Jerome	*Fond du Lac*
Reinking, Margaret Beatrice l s	*Madison*
Reis, Nick Meinrad	*Madison*
Reiter, Mamie Augusta	*Memphis, Tenn.*
Rembert, Kate Cameron	*Galveston, Tex.*
Reppen, Nels Oliver	*Conde, S. D.*
Resnekoff, Lou L.	*Danville, Ill.*
Retzer, John P. l s	*Madison*
Rewey, Robert Livingston l s	*Rewey*
Reynolds, Georgia Margaret	*New Lisbon*

Reynolds, Grace Adelia	*Chicago, Ill.*
Richards, Delia Mae	*Jackson, Mich.*
Richards, Willie	*Quincy, Ill.*
Riehm, Lennal Smith l s	*Milwaukee*
Rietow, William Howard l s	*Sheboygan*
Rifleman, Armilda Rebecca	*Wausau*
Riha, Joseph Wencel	*Kewaunee*
Riley, Eleanor Farrell	*Madison*
Riordan, Hugh Leo l s	*Port Washington*
Rissman, Josephine	*Milwaukee*
Roach, Mary Margaret	*Danvers, Ill.*
Roberts, Tracy David l s	*Wilmette, Ill.*
Robinson, Helen Virginia	*Galveston, Tex.*
Robinson, Kathleen Mary	*Green Bay*
Robinson, Olive Ellen l s	*Evansville*
Rochford, Julia Margaret	*Indianapolis, Ind.*
Rockwell, Leslie Howard	*Madison*
Rogers, Frances Pierce	*New Haven, Conn.*
Roll, Elizabeth	*Hamilton, Ohio*
Rollins, Aaste Lohner	*Chicago, Ill.*
Romig, Gertrude Naomi	*Madison*
Rooney, Elizabeth	*Omaha, Nebr.*
Rose, Ralph Douglas	*Chicago, Ill.*
Rosenthal, Rena	*Dayton, Ohio*
Ross, Louise Anna	*Indianapolis, Ind.*
Royce, Henry Burnside	*Madison*
Royce, Lydia Sprague	*Naperville, Ill.*
Royse, Edith Hull l s	*New York, N. Y.*
Royse, Grace Hull	*New York, N. Y.*
Rubert, William Frederick l s	*Madison*
Rudie, Neil Hjalmer	*Westby*
Rudy, Frances Eleanor l s	*Madison*
Rudy, Paul Passmore l s, l	*Madison*
Ruggles, Pha	*Joliet, Ill.*
Ruggles, Ruth Mary	*Baraboo*
Ruhnka, Gertrude	*Omaha, Nebr.*
Rummel, Walter John a	*Helenville*
Runcie, Ellinor Dale	*St. Joseph, Mo.*
Runge, Erna Emma	*Milwaukee*
Runge, Florence Clara	*Milwaukee*
Runkel, Clara Margaret	*Potosi*
Runkel, Lura Mylinda	*Reeseville*
Rupel, Maude Larimore	*Dayton, Ohio*
Ruttinger, Harry W.	*Kansas City, Mo.*
Ryan, Madge Irene l s	*Madison*
Ryan, Mildred Elizabeth l s	*Madison*
Sadowsky, Ray Roman	*Milwaukee*
Saha, Aatto Paivio	*Bjoerneborg, Finland*
Saltzstein, Felix C.	*Milwaukee*
Saltzstein, Irving David	*Milwaukee*
Sanborn, Minnie Lyvonia	*Sparta*
Sander, Leone Frances	*St. Louis, Mo.*
Sannicola, Anna Sophie	*Eveleth, Minn.*

Sapper, Herbert David l s	*Guatemala City, C. A.*
Saunders, Hallie Llewellyn	*Galveston, Tex.*
Saunders, Irene	*Galveston, Tex.*
Sawtelle, Rolfe Bigelow e	*Madison*
Schaefer, Prudence Anne	*Ripon*
Schaefer, Velma Viola	*Milwaukee*
Schalk, Ella Martha	*Berlin*
Schapiro, Saul l s, m	*Milwaukee*
Schaub, Carl Frederick	*Deerfield*
Scheberle, Florence Rosa	*Watertown*
Schenck, Willard John l s	*Madison*
Schilling, Ethel Florence	*Green Bay*
Schindler, Olive Emma	*Monroe*
Schirmer, Geraldine L. M.	*Sioux Falls, S. Dak.*
Schlagenhauf, Ruth Zinn	*Farina, Ill.*
Schleck, Harriet Helen	*Fennimore*
Schleck, Leo Peter l s	*Madison*
Schlicher, J. Rudolph l s	*Madison*
Schlomovitz, Elias Herman	*Madison*
Schlomovitz, Harry Herman l s, m	*Madison*
Schlosser, Gladys Marguerite l s	*Arlington*
Schlueter, Olga Eugenia	*Milwaukee*
Schmedeman, Albert Jr. l s	*Madison*
Schmedeman, Katharine l s	*Madison*
Schmidt, Arno John l s	*Davenport, Ia.*
Schmidt, Edna Harriet	*Milwaukee*
Schmidt, Elsie Florence l s	*Wauwatosa*
Schmidt, Gladys Marie	*Madison*
Schmidt, Herbert Glueck	*Milwaukee*
Schmidt, Ida Eleanore	*Wauwatosa*
Schmidt, Irene Edna	*Duluth, Minn.*
Schmidt, Peter J.	*Eau Claire*
Schnakenburg, Regina	*Kansas City, Mo.*
Schneider, Bertha J.	*St. Louis, Mo.*
Scholfield, Geraldine	*Menomonie*
Schomberg, Richard Jost Jr. l s	*Milwaukee*
Schoolfield, Lula May	*Evansville, Ind.*
Schroeder, Helen	*Two Rivers*
Schroeder, John Edward	*Milwaukee*
Schrumpf, Violet Marie l s	*Highland, Ill.*
Schubert, Clarence Karl, Jr. l s, m	*Madison*
Schuknecht, Roy John	*Port Washington*
Schuldt, Ella Cora l s	*Platteville*
Schulte, Victor Jacob l s	*Milwaukee*
Schultz, Alma	*Birnamwood*
Schulz, Ella Marion l s	*Madison*
Schulz, Irwin P. l s	*Milwaukee*
Schulz, Lydia Martha l s	*White, S. Dak.*
Schutz, Clara B.	*Laurens, Ia.*
Schulz, George J., Jr. l s	*Shawano*
Schwartz, Charles Floyd l s	*Sharon*
Schweickhard, Dean Merril	*Mankato, Minn.*
Schwenn, Bertha Jane l s	*Madison*

Schwochert, Anna Birgetta	*Montello*
Sconce, Frances E.	*Sidell, Ill.*
Searle, Harriette Lyman	*Oskaloosa, Iowa*
Seever, Mary Frances	*Carlisle, Ind.*
Sehrt, Mildred M.	*Chicago, Ill.*
Seids, John William, Jr. l s	*Moline, Ill.*
Seitz, Harry William	*Henry, Ill.*
Selk, Lucile C. l s	*Madison*
Sell, Margaret	*Cleveland, Ohio*
Selleck, Eugene Roy	*Wilmette, Ill.*
Selleck, Margaret Hall	*Wilmette, Ill.*
Sellery, George Bapty	*Madison*
Sells, Arthur Max l s	*Florence*
Settle, Ruth Johan l s	*Martinsdale, Mont.*
Seybold, Ervine George l s, m	*Forest Jct.*
Seymour, Madeline	*Chicago, Ill.*
Shambough, Howard Miller	*Fort Wayne, Ind.*
Shattuc, William Ellison	*Cincinnati, Ohio*
Shaw, Cornelia Elizabeth	*Zion City, Ill.*
Shea, Edith Verena l s	*Ashland*
Shearer, Eleanor Constance l s	*Madison*
Shearer, Florence Iona	*Madison*
Shearer, Irma Luella	*Madison*
Shearman, Frank T.	*Reynolds, Ill.*
Sheehan, James Harold	*Naperville, Ill.*
Shellman, Ernest John l s	*Prentice*
Shelly, John Joseph Canice	*Winnipeg, Manitoba, Can.*
Shephard, Elsie W.	*Stevenson, Minn.*
Shephard, Ethel Guerdon	*Stevenson, Minn.*
Shepherd, Ruth Alberta	*Platteville*
Shepherd, Thomas LeRoy l s, m	*Platteville*
Sheridan, Julia Mariana	*Chicago, Ill.*
Sherman, Howard Cole l s	*Grand Rapids, Mich.*
Shipps, Ruth	*Coshocton, Ohio*
Short, Robert Wright l s	*Elkhart, Ind.*
Shower, Hazen E.	*Monrovia, Cal.*
Shugart, Grace Margaret	*Princeton, Ill.*
Shuttleworth, Saadi Sappho l s	*Madison*
Sichler, Margaret Xentha l s	*Madison*
Sichenberger, Laura	*Chicago, Ill.*
Siede, Frieda Clara	*La Crosse*
Siefert, Marguerite Lydia	*Detroit, Mich.*
Sigle, Emily Christina	*Detroit, Mich.*
Simmons, Mary Frances	*Mannington, W. Va.*
Simmonds, William Francis	*Milwaukee*
Simmonds, Paul William l s	*Milwaukee*
Simmons, Fred Adams e	*Newtonville, Mass.*
Simpson, Majorie DuVal l s	*Chicago, Ill.*
Sinagub, Jacob J. l s	*Madison*
Sinaiko, Eugene	*Madison*
Sinaiko, Grace Maxine l s	*Madison*
Sinaiko, Herman Louis l s	*Madison*
Sinaiko, Jacob l s	*Madison*

Sinaiko, Josie l s	*Madison*
Sinaiko, Leila l s	*Madison*
Sisson, Roy John	*Prairie du Sac*
Sister Mary Alicia	*Madison*
Sister Mary Aquinas	*Manitowoc*
Sister Mary Benita Newhouse	*Sinsinawa*
Sister Mary Canice Brennan	*Madison*
Sister Mary Carola Sellmeyer	*St. Louis, Mo.*
Sister Mary Constanza	*Sinsinawa*
Sister Mary Elaine	*Racine*
Sister Mary Faith Hand	*Sinsinawa*
Sister Mary Florentinus O'Connor	*Sinsinawa*
Sister Mary Generose	*Racine*
Sister Mary Georgina Volbach	*Milwaukee*
Sister Mary Gertrude	*Sinsinawa*
Sister Mary Gilbert	*Milwaukee*
Sister May Jane	*Racine*
Sister Mary Joan	*Racine*
Sister Mary Jordana Achen	*Appleton*
Sister Mary Loughrin	*Madison*
Sister Marie Louise	*Madison*
Sister Mary Marcus Windt	*Manitowoc*
Sister Mary Natalie l s	*Sinsinawa*
Sister Mary Paschala	*Madison*
Sister Mary Patrick	*Sinsinawa*
Sister Mary Pierre Hanrahan	*Sinsinawa*
Sister Mary Placide Quille	*Madison*
Sister Mary Rinaldo Donehue	*Sinsinawa*
Sister Marie Rose m	*Sinsinawa*
Sister Rose Catherine	*Sinsinawa*
Sister Mary Timothy l s	*Sinsinawa*
Sister Mary Verda Lynch	*Green Bay*
Sister Mary Virginia	*Sinsinawa*
Sitterly, Ada Martha l s	*Spring Valley, Ill.*
Slade, Katherine H.	*Washington, D. C.*
Smertenko, Johan Jacob	*Rochester, N. Y.*
Smiley, Cesarine Frances	*Sheboygan Falls*
Smith, Aura	*Kansas City, Mo.*
Smith, Don Wheeler l s	*Clinton, Ia.*
Smith, Dorothy	*Brownsburg, Ind.*
Smith, Emmett Patrick l s	*Madison*
Smith, Georgia Mae	*Oklahoma City, Okla.*
Smith, Herbert H. l	*Milwaukee*
Smith, Jessie Jane	*Indianapolis, Ind.*
Smith, Jessie M.	*Oxford*
Smith, Laura Blandin	*Green Bay*
Smith, Leta Frances	*Decatur, Ill.*
Smith, Lewis Pettibone l s	*Chicago, Ill.*
Smith, Lulu Belle	*Milwaukee*
Smith, Mabel Ellen	*Springfield, N. J.*
Smith, Margaret Mary	*Riverdale, Md.*
Smith, Mary May	*Des Moines, Ia.*
Smuckler, Robert Henry l s, m	*Milwaukee*

Snaddon, George Hutton	*Madison*
Snider, Augusta	*St. Louis, Mo.*
Soderquist, Josephine Erickson	*Galesburg, Ill.*
Solle, Irene	*Fond du Lac*
Solliday, Albert La Fayette	*Watertown*
Sorum, Adeline Charlotte	*Hollandale*
Sotirakos, Dimitrius Spiros	*Chicago, Ill.*
Soutar, Anna Mackenzie	*Sandusky, Ohio*
Spaenhower, Vincent (Miss)	*Waverly, Ill.*
Spahr, Elsie Elizabeth	*McFarland*
Sparks, Loran Darius g	*Madison*
Sparling, Elliot W. l s	*Ashland*
Speer, Adelle Norris	*Guthrie, Okla.*
Spensley, Alice L. l s	*Madison*
Sperle, Ottina Sara	*McFarland*
Spethmann, Alma	*Omaha, Nebr.*
Springhorn, Rita Katherine	*Racine*
Sproul, Elizabeth Walden l s	*Madison*
Sprung, Edna Marie	*Chicago, Ill.*
Spry, Mary Elizabeth	*Ft. Atkinson*
Stacy, Esther Anna l s	*Osage, Ia.*
Staehling, Augusta Marie	*Danforth, Ill.*
Stainer, Marie Bertha	*Port Washington*
Stallman, Elsie May	*Sioux Falls, S. D.*
Stam, Blanche E.	*Berlin*
Stam, Ira Webster	*Berlin*
Stambaugh, Philip Sheridan	*Youngstown, Ohio*
Stanchfield, Madelyn Elizabeth	*Fond du Lac*
Standiford, Gladys Charmein	*Viroqua*
Stapleton, Alice Brady	*Rhinelander*
Stark, Theodore Eugene l s	*Madison*
Starr, Beulah	*Boaz*
Statz, Carolyn Agnes l s	*Madison*
Statz, Eleanor Farissa l s	*Madison*
Stavrum, Margaret Regina l s	*La Crosse*
Steckbauer, Joseph William	*Oshkosh*
Steeholm, Hardy l s	*Madison*
Steele, Katherine Muck	*Wausau*
Steele, Richard Wilson l s	*Oak Park, Ill.*
Stegeman, Wilson	*Holland, Mich.*
Stein, Walter Phillip a	*Milwaukee*
Steinberg, Lorraine l s	*Jefferson*
Steinwender, Sheller Loomis l s	*St. Louis, Mo.*
Stern, William l s m	*Kenosha*
Sternberg, Jay	*Memphis, Tenn.*
Steve, Fannie Mason	*Madison*
Stevens, Robert James	*Janesville*
Stevenson, Elsie Mabel	*Marinette*
Stewart, John Carter l s	*Mackinac Island, Mich.*
Stewart, John D. l s	*Waukegan, Ill.*
Stewart, William James	*Gambier, Ohio*
Stibbins, Lucile	*Monroe City, Ind.*
Stirwalt, Bessie Joan l s	*Terre Haute, Ind.*

Stites, Marion Gertrude	*Hewitt, N. J.*
Stoecker, Bertha M.	*Webster Groves, Mo.*
Stoecker, Meta	*Webster Groves, Mo.*
Stoltz, Marie Pauline	*Peoria, Ill.*
Stone, Ethel Annis	*Waupaca*
Stork, Mary Elizabeth l s	*Madison*
Stout, Richard Harding l s	*Indianapolis, Ind.*
Stowell, Lloyd Lesly	*Waseca, Minn.*
Straus, Joe Richard	*San Antonio, Tex.*
Streich, Frances Luella	*Evanston, Ill.*
Strossman, Marion Rae	*Aurora, Ill.*
Struck, Louis Alfred	*Onalaska*
Stuart, Clara M.	*Chicago, Ill.*
Stubbs, Agnes Effie	*Elkhorn*
Sueltz, Alma Marie	*Groton, S. D.*
Sugg, Maxey M.	*Atlanta, Ill.*
Sullivan, Eva Jane	*Kansas City, Mo.*
Sullivan, Mary Bernice	*Rockford, Ill.*
Summer, Jessie	*Milford, Ill.*
Sumner, Roger	*Boston, Mass.*
Sunderland, Dean Page l s	*Omaha, Nebr.*
Sunderland, Paul l s	*Kansas City, Mo.*
Sutcliffe, Leah M. l s	*Chicago, Ill.*
Suter, Maud	*Chicago, Ill.*
Sweeting, Elsie Mildred	*Plymouth*
Swiggum, Mary Elmira	*Blanchardville*
Sylvester, Adelene	*Chicago, Ill.*
Szeliski, Paul von e	*Madison*
Szeliski, Victor Spartan von e	*Madison*
Talbot, Harry Elno l s	*Milton*
Taylor, Edna Colvin	*Westfield*
Taylor, Harold Beecher l s	*Chicago, Ill.*
Taylor, Henry Gordan l s	*Madison*
Taylor, Phyllis Elizabeth	*Chicago, Ill.*
Taylor, Warren Alvin, l s	*Ashland*
Teare, Dorothy l s	*Monmouth, Ill.*
Teckemeyer, Adolph Otto l s	*Madison*
Telker, Minna Johanna	*Cincinnati, Ohio*
Terry, Halstead Coleman l s	*Madison*
Terwedo, Viola Evalina	*Oshkosh*
Teweles, Richard Hugo	*Milwaukee*
Thamm, Louis Ferdinand	*Milwaukee*
Tharinger, Marie Eleanor	*Milwaukee*
Thiehoff, Eldred Victor	*Monroe City, Mo.*
Thomas, Charlotte B.	*Lafayette, Ind.*
Thomas, Grace Marion	*Black River Falls*
Thomas, Norton Andrew l s	*Milwaukee*
Thompson, Belle Nathalie	*Baldwin*
Thompson, Dora Belle	*Waupaca*
Thompson, Edith A.	*Detroit, Mich.*
Thompson, Frances Louise	*Monroe*
Thompson, Robert Oliver l s	*Madison*
Thompson, Rose Henderson	*Indianapolis, Ind.*

Thompson, Troy Melvin l s, m	*Madison*
Thompson, Vera Anita	*Monroe Center, Ill.*
Thomson, John Norman l s	*Centerville, S. D.*
Thoorsell, Emelia Amanda	*Kingsdale, Minn.*
Thornton, David Howard l s	*Atchison, Kan.*
Tiedt, Emma	*Michigan City, Ind.*
Tiegs, Edith H. l s	*Madison*
Tierney, Edward Frederick l s, m	*Portage*
Tinley, Beatrice	*Council Bluffs, Ia.*
Tollefson, Mildred Marian	*Mabel, Minn.*
Tompsett, Ruth R.	*Omaha, Nebr.*
Townsend, Gwendolyn Clark	*Sioux City, Ia,*
Trainor, Stelle Elizabeth l s	*Madison*
Trandel, Bernard August	*Chicago, Ill.*
Trebus, Alice Charlotte	*San Antonio, Tex.*
Trewartha, Glenn Thomas l s	*Hazel Green*
Trowbridge, Jeanne	*St. Joseph, Mo.*
Tsai, Feng l s	*Peking, China*
Tully, Lawrence Patrick	*Milwaukee*
Turnbull, Mary E.	*Hinsdale, Ill.*
Turnbull, Ruth Emilie	*Hinsdale, Ill.*
Ulrich, Helen R. l s	*Neenah*
Umbreit, Freda Emmet l s	*Milwaukee*
Underwood, Irene M.	*Omaha, Nebr.*
Upgren, Arthur Reinhold l s	*River Falls*
Upson, Edith Evelyn	*Madison*
Urberg, Sofus Emanual l s, m	*Blair*
Van Deursen, Ruth	*Dalton, Ill.*
Van Houten, Richard Walter l s	*Milwaukee*
Van Laanen, Rosebud Frances	*Green Bay*
Van Natte, Jesse A.	*Markesan*
Van Wagner, Esther Ellen l s	*Pontiac, Mich.*
Vance, Louis Roy	*Racine*
Vanderbie, Roscoe	*Madison*
Vansteel, Mabel Marie	*Quincy, Ill.*
Vater, Margaret	*Milwaukee*
de la Vega, Emma Louisa	*Omaha, Nebr.*
Veleber, Emma June	*Belt, Mont.*
Verhulst, John l s	*Madison*
Vernon, Mabel Dorothy l s	*Kenosha*
Verst, Herbert E.	*Chicago, Ill.*
Vezina, John Charles	*Ellsworth*
Vickers, Lola Virginia	*Huntington, W. Va.*
Vieth, Lillian Luella	*Norwalk*
Vivian, Reuben Leroy l s	*Mineral Point*
Voelker, Ida Margaret	*Richland, Center*
Vorlop, Hugo Joseph l s	*Reedsburg*
Vose, Lyman Rea l s	*Macomb, Ill.*
Waddell, Ethel Wheeler	*Huntington, W. Va.*
Waddell, John Frank	*Evansville*
Wadsworth, Mary L.	*Wellsley Hills, Mass.*
Wagner, Newton Van Derveer l s	*Madison*
Waldo, Ada Clark	*Rockford, Ill.*

Waldo, Jennie Edith	*Rockford, Ill.*
Walker, Grace Elizabeth	*Chicago, Ill.*
Wallace, Lydia Juliet	*La Farge*
Walters, Grace	*West Lafayette, Ind.*
Wannebo, Beatrice Annie	*Duluth, Minn.*
Ward, Alonzo La Rue Jr. l s	*Aberdeen, S. D.*
Ward, Lavilla Amelia	*Grand Rapids, Mich.*
Warden, Alexander Scott	*Great Falls, Mont.*
Wardell, Mable Grace	*Cambridge*
Waring, Winifred	*Florence*
Warmuth, Henry Joseph e	*Philadelphia, Pa.*
Warsinske, Mildred Emily l s	*Marshfield*
Waters, Marie Welch	*South Raub, Ind.*
Watkins, Alma Lorraine	*Guthrie, Okla.*
Watkins, Bates Milo	*Asherton, Tex.*
Watson, Goodwin Barbour l s	*Whitewater*
Watts, Richard Prosser	*Adrian, Mich.*
Weathersby, Frank McLean	*Memphis, Tenn.*
Weber, Gertrude l s	*Madison*
Weber, Marie Caroline	*Keokuk, Ia.*
Webster, Margaret	*Van Wert, Ohio*
Wegener, James Hugo l s	*Marshfield*
Wegner, Henry Carl	*Oconto*
Wehle, Alex F. l s	*West Bend*
Wehle, Edward William l s	*West Bend*
Weiler, Carroll l s	*South Bend, Ind.*
Weimer, Elizabeth Ann l s	*Sheboygan*
Weinke, Ernest Fred Albert	*Merrimac*
Weir, Margaret M.	*Mukwonago*
Weisbrok, Edna Louise	*Oshkosh*
Weiskirch, Anita Elizabeth l s	*Topeka, Kan.*
Weisse, Lester C.	*Sheboygan Falls*
Weissenburger, Beatrice Aileen	*Keokuk, Ia.*
Weissgerber, Selma Frances	*Appleton*
Welch, Verna Magdalene	*Kenosha*
Weldon, Charles William Temple	*Milwaukee*
Weller, Horace l s	*Fond du Lac*
Wendt, Philippa Emma	*Milwaukee*
Wensley, Margaret Gray l s	*East Cleveland, Ohio*
Werner, Elsie Ann	*Saybrook, Ill.*
West, Phyllis Elizabeth	*Galesburg, Ill.*
West, Saida Wood	*Norwood, Cincinnati, Ohio*
West, Susanna	*Ripley, Ohio*
Weston, Frank Laurence l s m	*Mason City, Ia.*
Whelan, Julia P. g	*Madison*
Whipple, Marcia l s	*Madison*
White, Charles Herman l s	*Rewey*
White, Edith Dakota	*Ashland*
White, Harry Edwin	*Brooklyn*
White, Mabel Florence	*Rhinelander*
White, Rena Runner	*Delafield*
White, Wallace Beecher l s	*Burlington*
Whiteside, Ada Mae	*Kahoka, Mo.*

Whiteside, Elizabeth Mary	*Kahoka, Mo.*
Whitley, Maude Constance	*St. Louis, Mo.*
Whitlock, Robert Laird l s	*Gettysburg, S. Dak.*
Whitney, Beryl Esther l s	*Shell Lake*
Whyte, Grace Ellen	*Toledo, Ohio*
Wich, Hattie Pauline	*Quincy, Ill.*
Wich, Laura Tacle	*Quincy, Ill.*
Wickenden, Gertrude Worth l s	*St. Louis, Mo.*
Wightman, George Verne l s	*Madison*
Wilcox, Russell Arthur l s	*Horicon*
Wilder, Frank Edward l s	*Madison*
Wilder, M. Wanda	*Madison*
Wiley, Robert LeRoy l s	*Chippewa Falls*
Wilgus, Alva Curtis l s	*Platteville*
Wilhelm, Clara Margaret	*Marshfield*
Wilkins, Glenna Marie	*San Jose, Ill.*
Willett, Alfred Edwin l s	*Plainfield,. N. J.*
Willey, Mildred Inez	*Indianapolis, Ind.*
Williams, Ada Griswold l s	*Oshkosh*
Williams, Bertha Helen l s	*Madison*
Williams, David Charles	*Cambria*
Williams, Frank George	*Furnesville, Ind.*
Williams, Margaret Mae	*Oshkosh*
Wilson, Clara	*Waverly, Ill.*
Wilson, John Gilbert	*Centralia, Ill.*
Wilson, Katherine Martha l s	*Superior*
Wilson, Margaret Curtis l s	*Madison*
Wilson, Nathan Dodd	*La Farge*
Wilson, Robert	*Mondovi*
Wilson, Rowena Angie	*Portland, Ind.*
Wilson, Sanford Vaughters	*Abrams*
Wilson, Vera Gabrielle	*Portland, Ind.*
Winchell, Vira Frances l s	*Madison*
Winner, Ellsworth James	*Pittsburgh, Pa.*
Winslade, Emma J.	*Omaha, Nebr.*
Winslade, Kate May	*Omaha, Nebr.*
Winsler, Ruby Elizabeth	*Moravia, Ia.*
Winslow, Catherine Mary	*Detroit, Mich.*
Wise, Elizabeth R.	*Duluth, Minn.*
Wise, Gladys Minnie	*Madison*
Wittkop, Norman Lorenz l s	*Hartford*
Wittwer, Marie l s	*Madison*
Wochos, Louis Henry	*Wausaukee*
Wold, Sara Mabel	*Earlville, Ill.*
Wolfe, Inez Martin	*Kansas City, Mo.*
Wolff, Marie Brandstater	*Butternut*
Woo, Thomas Chichung	*Urbana, Ill.*
Wood, Delphine l s	*Fonda, Ia.*
Wood, George E. l s	*Cottage Grove*
Wood, George Gerry l s	*Appleton*
Woodruff, Gertrude A.	*Galesburg, Ill.*
Woods, Mary	*Nashville, Tenn.*
Woodward, Suzanna Mayo	*Peoria, Ill.*

Woyciehowsky, Stanley John	*Manitowoc*
Wright, Annie L.	*Bozeman, Mont.*
Wright, Fred A.	*Janesville*
Wright, Paul Arthur l s	*Milwaukee*
Wright, Robert Boyce	*Cleveland, Ohio*
Wunder, Edna Claris	*Naperville, Ill.*
Wurth, W. Walter l s	*Madison*
Yates, Margaret	*Waco, Tex.*
Yeh, Yuan-Lung l s	*Chu Chow, China.*
Zander, Berenice A.	*Two Rivers*
Zander, Edith Marie	*Two Rivers*
Zeppenfeld, Edna Eugenia	*St. Louis, Mo.*
Zich, Max Walter	*Green Bay*
Ziegenhagen, Fred William	*West Allis*
Ziemann, Arthur Herman	*Bloomer*
Zierke, Victor W. l s	*Princeton*
Zimmerman, Beulah Worthley l s	*Freemont, Ohio*
Zimmermann, Edith l s	*Milwaukee*
Zimmermann, Gerhard Edmund	*Sheboygan*
Zoerb, Howard McKinlay	*Two Rivers*
Zulfer, Anthony George l s	*Chicago, Ill.* —1832

Music

Beal, Frances	*Sault Lake City, Utah*
Blakely, Nancy Loretta	*Anderson, Ind.*
Boell, Flora Irene	*Dubuque, Ia.*
Chomeau, Virena B.	*Clayton, Mo.*
Collier, Winifred Mary	*Clintonville*
Darrin, Josephine Nellie mu	*Chicago, Ill.*
Duncan, Erma Leona	*Kenosha*
Dwight, Dorothy l s	*Madison*
Estvad, Gudrun Chr.	*Madison*
Fendly, Jessie	*Galveston, Tex.*
Forehand, Sarah Fern	*Madison*
Friola, Daly	*Hurley*
Fritz, Fedelia Elizabeth mu	*Madison*
Frost, Ethel Westbrook	*Muskegon, Mich.*
Goddard, Grace C., B. A.	*Madison*
Hanna, Florence Jessie	*Clay Center, Kan.*
Hanna, Lois Margaret	*Clay Center, Kan.*
Hayes, Elma	*Macon, Mo.*
Hoppmann, Mary Agnes	*Superior*
Kraushaar, Katharine Wilhelmina	*Warsaw, Ill.*
Lampert, Florence May	*Lena, Ill.*
Lathrop, Frances Child, B. A.	*Madison*
Lawson, Vera Shearer	*Rockford, Ill.*
Lerdahl, Marie Josephine	*Morrisonville*
Levi, Dorothea Everest mu	*Madison*
Lindegren, Esther Victoria	*Duluth, Minn.*
Marsh, Jane Luella	*Stevens Point*
Milliren, Gladys Evelyn	*Pepin*
Morrison, Luella Selina	*Madison*

Noetzel, Ruth Hazel	*Greenwood*	
Petersen, Max Heinrich, M. A. g	*Madison*	
Ruder, Paula Louise mu	*Wausau*	
Sammis, Malvena Elizabeth l s	*Madison*	
Sanders, Alice Marie mu	*Madison*	
Setzer, Celia	*St. Louis, Mo.*	
Seybold, Sayda Ernestine mu	*Forest Junction*	
Shearman, Mary Ellen	*Madison*	
Shugart, Helen Rebekah	*Princeton, Ill.*	
Sister Mary Petra	*Racine*	
Smith, Georgina Wilson mu	*Racine*	
Stebnitz, Hilda Lindegrin	*Duluth, Minn.*	
Turner, Ruth Marie mu	*Hebron, Ill.*	
Tuttle, Clifton M. l s	*Madison*	
Wengel, Ray William e	*Madison*	
West, Gladys Cartwright	*Madison*	
Wigton, Roberta Kathryn	*La Grange, Ind.*	
Wigton, Ruby Rebecca	*La Grange, Ind.*	
Willman, Madelon Charity	*Green Bay*	
Wright, Nannie Louise	*Fayette, Mo.*	—49

Engineering

Albers, Walter L. e	*Prairie du Sac*
Albershardt, William Gehring	*Tipton, Ind.*
Axelberg, George Willard	*Washburn*
Bailey, Harry H.	*Madison*
Baker, James Stannard e	*Amherst, Mass.*
Barth, Karl Peter e	*Milwaukee*
Baumann, Walter Otto e	*Minneapolis, Minn.*
Beardsley, Edward Huggett e	*Chicago, Ill.*
Bespalow, Eugene Frederick e	*Chicago, Ill.*
Birkenwald, Emil S. e	*Milwaukee*
Björnson, Björn Gudmundsson e	*Reykjavik, Iceland*
Blair, John Portwood e	*Chicago, Ill.*
Blatter, Rudloph Hans	*Madison*
Blau, Herman Adolph e	*Washington, D. C.*
Bollinger, Paul E. a	*Sharon*
Bowman, Philip G. e	*De Pere*
Branks, Joseph Orrin e	*Janesville*
Brittingham, Thomas Evans, Jr. e	*Madison*
Brown, Freeman Harding e	*Cashton*
Bruden, Clifford, O. e	*Eau Claire*
Bryn, Harold Bonnevil e	*Kristiania, Norway*
Buchholz, Rudolph Otto, B. S.	*St. Maries, Idaho*
Bush, Russell J.	*Colfax, Ind.*
Campbell, Lawrence Franklin e	*Oshkosh*
Charlson, Melvin Robert e	*Eau Claire*
Chase, Leon Everett e	*Viroqua*
Clarenbach, Ralph Emil e	*Sheboygan*
Clark, Manley Haynes e	*Madison*
Cole, John Walter e	*Independence*
Colony, Martin Pratt e	*Evansville*
Comey, Frank Aubrey	*Milwaukee*

Connell, Daniel Richard e	*Beloit*
Connell, Walter James	*Menomonee Falls*
Coomber, Howard M. e	*Kansas City, Mo.*
Davies, Frank Case e	*Racine*
Dawson, James Thomas e	*Beloit*
Dean, Horace Kleffler e	*Milwaukee*
Donovan, Edward Thomas e	*Milwaukee*
Drake, Ronald Irwin e	*Mendota*
Drewry, Montrose Keller e	*Madison*
Egan, Wilfred Martin e	*Highland*
Emmerling, Hans Frederick e	*Milwaukee*
Emmons, Lawrence Earle e	*Quincy, Ill.*
Erickson, Cyril Lambert e	*Mondovi*
Evans, Maxwell Skinner	*Chattanooga, Tenn.*
Ewald, Sterling Donald e	*Louisville, Ky.*
Fiedler, Elmore Walter e	*Plymouth*
Ford, Henry Michael e	*Janesville*
Frater, George Gordon e	*Elkhorn*
Fulkerson, Samuel Cole	*Lead, S. D.*
Garbe, Jesse Walter	*Chippewa Falls*
Gardner, Cyrel James	*Platteville*
Garrity, Leo Valentine e	*Hudson*
Gaubatz, Arthur William e	*Chilton*
Gauntlett, Ward Jackson l s	*Chicago, Ill.*
Geiger, George e	*Milwaukee*
Gettle, Rollin Brown e	*Madison*
Geussenhainer, Frederick William	*Sheboygan*
Gibbon, Edwin W.	*Madison*
Giddings, William Werner e	*Mendota*
Gifford, Willis E., Jr. e	*Madison*
Gotham, Donald E. e	*Mazomanie*
Gould, Archie Hiram e	*Nekoosa*
Greenslade, Irving Jones e	*Milwaukee*
Greiling, Winford Walter e	*Green Bay*
Grimstad, Reuben Charles e	*Mt. Horeb*
Griswold, Frank Lynn e	*Madison*
Griswold, Henry Farnam e	*Madison*
Gruppe, Alfred Henry e	*West Allis*
Guenther, Felix Gustave e	*Port Washington*
Hahn, Laurence Hugo e	*Reedsburg*
Hamilton, William Henry	*Durand*
Hanley, Edward Vincent e	*Milwaukee*
Hanna, Charles John	*Abbotsford*
Hanson, Clarence Ferdinand e	*Waupaca*
Hanson, Frederick R. l s	*Milwaukee*
Hanson, Ray Frederick e	*Milwaukee*
Hart, Bernard Ellis	*College Station, Ark.*
Hawkins, Rayman Nelson e	*Madison*
Hauks, Ralph Eli	*Horicon*
Head, Guerdon Herbert e	*Platteville*
Heffernan, Raymond Arthur e	*Madison*
Helfaer, Evan Philip l s	*Milwaukee*
Homstad, Erwin Edgar l s	*Black River Falls*

Hornibrook, Francis Crary e	*Marinette*
Horton, Frederick Arthur l s	*Rockford, Ill.*
Hunziker, Chester E. e	*Tomahawk*
Hyzer, Arthur Sorge e	*Reedsburg*
Jackson, Morris Dunn e	*Madison*
Jaeger, Walter Carl William e	*Cleveland*
Johnson, Norman Lincoln e	*New Ulm, Minn.*
Jones, T. Delbert e	*Madison*
Karger, Frank e	*Milwaukee*
Keck, Gerald	*Rock Rapids, Iowa*
Kelhofer, Leon Martin e	*Sharon*
Keller, Oswald Lewin l s	*Madison*
Kelly, Pennell Clarke e	*Ft. Atkinson*
Kerwin, Joseph James l s	*Madison*
Klaffroth, Walter Henry	*Racine*
Klement, Elmore Fred e	*Ft. Atkinson*
Knapp, Harold Clark e	*Milwaukee*
Knollin, Albert J. Jr. e	*Pocatello, Idaho*
Krause, Elmer George e	*Milwaukee*
Krez, Frederick William e	*Sheboygan*
Kroncke, Earl Alfred e	*Madison*
Kuebler, George Benjamin e	*Wausau*
Lamboley, Julian Joseph e	*Belleville*
Lang, Paul Minor	*Chippewa Falls*
Leinfelder, Cyril Lawrence e	*La Crosse*
Libby, Fred H.	*Milwaukee*
Light, Robert F. e	*Dayton, Ohio*
Lippert, Erick William e	*Marinette*
Lord, Herbert Overton e	*Oconto*
Lowe, George Christie	*Beardstown, Ill.*
Lucas, Frank Blackburn	*Manchester, Ill.*
McGraw, Vincent George e	*Racine*
McKinlay, Marcellus James e	*Dodgeville*
McLenegan, David Wallace e	*Milwaukee*
Mann, Louis Russell e	*Madison*
Mansfield, Herbert Stanley e	*Okauchee*
Manthey, Rollin Henry e	*Ableman*
Margoles, Harry e	*Milwaukee*
Meador, Barclay Francis	*St. Louis, Mo.*
Melnik, Morris e	*Milwaukee*
Merriam, Jesse Roger e	*Columbus*
Miller, Harry Irl e	*Madison*
Miller, Karl Christensen e	*Oshkosh*
Mohr, Ernest John e	*Milwaukee*
Montgomery, Alvin Eugene e	*Brooklyn*
Morice, Elton Knight e	*Madison*
Morsell, Curtis Benedict l	*Milwaukee*
Mueller, Emil Arthur e	*Baraboo*
Muhlenberg, Charles Henry	*Reading, Pa.*
Murdoch, Harell A. l s	*Chicago, Ill.*
Neel, Merville Charles e	*Des Moines, Iowa*
Nelson, Glenn e	*Aurelia, Iowa*
Neumeister, Carl Louise	*Sheboygan*

Nolte, Frederick William e	*Wauwatosa*
O'Connor, William Donald e	*Hancock*
O'Shea, M. Vincent l s	*Madison*
Owen, Allen Kenneth	*Milwaukee*
Paddack, Rychen Mayhew e	*Wyoming, Ohio*
Parker, George MacDonald e	*Madison*
Paul, Edmund Louis	*Milwaukee*
Pekofsky, Philip e	*Milwaukee*
Pesch, Anthony William e	*Madison*
Pidcoe, William Weston e	*Madison*
Pinkerton, DeWitt Van l s	*Neenah*
Price, Elmer E. e	*McComb, Miss.*
Puerner, Russell Edward	*Jefferson*
Quimby, Frank Randall e	*Sheboygan*
Radley, Harmon M. e	*Wild Rose*
Ragatz, Roland Andrew e	*Madison*
Ray, Jesse Edgar	*Menomomie*
Reading, Clyde W.	*Madison*
Reed, Philip Dunham e	*Milwaukee*
Rees, S. Thomas	*Racine*
Rice, Alex e	*Milwaukee*
Richardson, Claude Irving e	*Dane*
Riggs, Burd Joy	*Crandon*
Roberts, Richard A. e	*Madison*
Roberton, Richard Chamberlin e	*Milwaukee*
Roettiger, Warren Louis e	*Fountain City*
Rohlfing, Anthony Ferdinand e	*Milwaukee*
Rotter, Israel e	*Milwaukee*
Rove, Olaf N. e	*Milwaukee*
Royer, Paul Anson e	*Sterling, Ill.*
Ryan, George Parker e	*Madison*
Sanders, William Chapple	*Ottawa, Ill.*
Schall, Norbert James e	*Princeton*
Schaper, Harold Henry e	*Milwaukee*
Schlimgen, Lucian George	*Madison*
Schmidt, Ray Otto l s	*Davenport, Ia.*
Schmitt, Francis Herman e	*Milwaukee*
Schmitz, Herbert John	*Chicago, Ill.*
Schostak, Abraham e	*Milwaukee*
Schutte, Albert George e	*Wausau*
Schuyler, Philip Kingsland e	*Orange, N. J.*
Seder, Willard James e	*Madison*
Seitz, Ole H. e	*Mellen*
Sladky, Joseph Francis	*Racine*
Slezak, Gustav e	*Racine*
Smith, Fred Gund e	*Freeport, Ill.*
Smith, William Lee e	*Racine*
Spafford, Allen e	*Morrison, Ill.*
Spetz, Ralph F. e	*Milwaukee*
Staidl, Joseph Arnold e	*Madison*
Stamm, Frederick Carlton e	*Grand Rapids*
Stamm, Walter Clarence	*Grand Rapids*
Steele, Will Robert e	*Lodi*

Stocker, Alfred Elmont l s	*Madison*	
Strong, Thomas Foster e	*Madison*	
Stuart, James Reeve e	*Milwaukee*	
Terry, Owen Rockefeller e	*Stoughton*	
Terry, Ralphe Hooper e	*Madison*	
Theil, Walter Conrad e	*Schleisingerville*	
Thompson, Gilmon A.	*Mt. Horeb*	
Thorpe, John Elmer l s	*Darien*	
Tyson, Stanley Milton	*Ashland*	
Tzao, Shing K.	*Wu Chang, China*	
Upson, Carl A.	*Madison*	
Velguth, Waldemar e	*Milwaukee*	
Vosper, Ralph William	*Toledo, Ohio*	
Walraven, Peter e	*Kenosha*	
Walsh, James E. e	*Richland Center*	
Walton, Joseph L. e	*Moorestown, N. J.*	
Wegener, Karl Harold e	*Wausau*	
Weiland, Edwin Leo	*Milwaukee*	
Weinrich, Arthur Lester	*Dayton, Ohio*	
Wessells, Walter Byrd	*Baltimore, Md.*	
Wolverton, Fred Melville e	*Oshkosh*	
Wolverton, Robert Farrow e	*Oshkosh*	
Zarse, Clarence Henry e	*Milwaukee*	
Zelonky, Benjamin e	*Milwaukee*	
Zervas, Walter Otto e	*Milwaukee*	
Zuege, David Clarence e	*Milwaukee*	—216

Agriculture

Allison, Mabel Evelyn a	*Cleveland, Ohio*	
Anderson, John Arlington a	*Racine*	
Archer, Tressa	*Salina, Kan.*	
Arnold, Harold	*Menomonee Falls*	
Ayers, Dorothy Helen	*Dickinson, N. D.*	
Ayres, Paul Kester a	*Madison*	
Baker, Elnora a	*Rewey*	
Baldwin, Cornelius Hammett a	*Tulsa, Okla.*	
Baldwin, Marian Edith a	*Lena, Ill.*	
Behling, Fred Louis	*Johnson Creek*	
Bemis, James Rosborough	*St. Louis, Mo.*	
Bennett, Rosamond Thomas	*Auburndale, Mass.*	
Bertram, Grace Ione	*Belleville, Ill.*	
Bledsoe, Hazle Mae	*St. Louis, Mo.*	
Blum, Olga Hefty	*Monticello*	
Bowstead, John Edelston a	*Milwaukee*	
Brandon, William M. a	*Mazomanie*	
Braun, Ann Gertrude a	*Wahpeton, N. Dak.*	
Breene, Eulalia	*Reedsburg*	
Burr, Allen Russel a	*Waterloo*	
Butler, Margaret a	*Berwyn, Ill.*	
Caldwell, Thomas B. a	*Madison*	
Campbell, Lucille Grace a	*Madison*	
Carroll, Mary Margaret	*Oconto*	

Christie, Martha Elizabeth	*Superior*
Clark, Thomas C.	*Madison*
Coffman, Ruth Eugene a	*Pana, Ill.*
Coleman, Clement J.	*Milwaukee*
Collins, Mae A.	*Mineral Point*
Coulson, Ruth Antoinette a	*St. Louis, Mo.*
Craig, Blanche E.	*Oconomowoc*
Crawford, Grace Eleanor	*Chicago, Ill.*
Culberhouse, Lelia	*Jonesboro, Ark.*
Daley, Mary Lucile	*Waterloo*
Davies, David Rowland	*Pickett*
Davis, Mary Elizabeth	*Highland Park, Ill.*
DeVilbiss, Laurinda May	*Ft. Wayne, Ind.*
Dimmick, Jean	*Madison*
Dorr, Christine	*Stoughton*
Drips, William Edward a	*Madison*
Duffy, Walter A. a	*Moquah*
Dunn, Elizabeth Mary	*Martins Ferry, Ohio*
Durick, Kathryne	*Appleton*
Durman, Bernadette	*Harris, Mo.*
Echenique, Guilherme Jr.	*Pelotas, Brazil*
Elliot, Mary Katherine a	*Superior*
Falck, Erik	*Bergen, Norway*
Fardy, Charles Michael a	*Mukwonago*
Farrow, Margaret Topp	*White Haven, Tenn.*
Feeney, Regina Mary a	*Madison*
Fitch, Elizabeth May a	*Green Lake*
Flynt, Mary Dudley	*Omaha, Nebr.*
Foote, Nelle Margaret l s	*Madison*
Francis, Bessie	*Bonne Terre, Mo.*
Frazier, Harry Stucky a	*Louisville, Ky.*
Fritschel, Margaret E.	*Milwaukee*
Frost, Russell Elwell a	*Madison*
Gaffney, Edward James a	*Madison*
Gebhard, Clara Mabel	*Wausau*
Gerling, Pauline a	*St. Louis, Mo.*
Gould, Gladys Luceba	*Superior*
Gregory, Ethelynd	*Williamsport, Ina.*
Griffin, Beulah	*Mexico, Mo.*
Griffin, Mary Alma	*Mexico, Mo.*
Hajek, James Jesse	*Chicago, Ill.*
Harman, Helen Margaret a	*Madison*
Hartwell, Dessa Morris	*Franklin Grove, Ill.*
Hayes, Martha Durham	*Pleasant Plains, Ill.*
Hayes, Sarah Remona l s	*Madison*
Hayford, Arthur Samuel	*Robbins*
Hegner, Angela	*Racine*
Heisig, Gertrude Mathilda a	*Madison*
Hints, Richard Francis	*Platteville*
Hobbs, Hazel G.	*Grand Rapids, Mich.*
Hohenadel, Elmer Joseph	*Chicago, Ill.*
Holman, Charles William	*Chicago, Ill.*
Holway, Gordon Safford l s	*Madison*

Hood, Robin	*Chicago, Ill.*
Horne, Hans G.	*Chippewa Falls*
Householder, Leah Mabel	*Richland Center*
Howes, Katherine Yale	*Tomah*
Humbert, Edward Joseph	*Dwight, Ill.*
Humer, Elizabeth	*Springfield, Ill.*
Huntington, Vina Layzette	*Darlington*
Hutton, Mary Kinloch a	*Madison*
Ingvar, Agnes	*Kristianstad, Sweden*
Jackson, Lyman Edson a	*Madison*
Jacobson, Alvin Myron	*Richland Center*
Jamieson, Josephine	*Shullsburg*
Jensen, Philbert Frederick	*Medford*
Jewett, Eugene Augustus	*Marshall*
Johnson, Wilma Anna a	*Detroit, Mich.*
Jones, Helen Martha	*Oshkosh*
Jones, Mary Jane	*Racine*
Kersten, Luella Anna a	*Hartford*
Kimball, Marian a	*Glencoe, Ill.*
King, C. Howard a	*Madison*
King, Florence Mary	*Henry, Ill.*
King, Ruth Poland a	*Madison*
Kitchen, Ruth Louise	*Crystal Lake, Ill.*
Koehler, Gussie	*Omaha, Nebr.*
Koelsch, Roman J.	*Milwaukee*
Kopietz, Teresa Marie a	*Omaha, Nebr.*
Kundert, Elizabeth a	*Monroe*
Kyte, Gladys	*Grass Range, Mont.*
Lake, Charles Hoffa	*Memphis, Tenn.*
Lambert, Katherine Matilda	*Bayfield*
Larsen, Agnes Laura	*Kenosha*
Larsen, Christ Jacob	*Kenosha*
Leitsch, Mardelle Janet	*Mendota*
Lepkovsky, Samuel a	*Kenosha*
Loewe, Arthur Petersdorff	*Milwaukee*
Lubkea, Oscar Otto	*Weyauwega*
Lund, Alf l s	*Eau Claire*
Luther, Melvin Eddy a	*Madison*
McBain, Mabel J.	*Eau Claire*
McCarthy, Asa E.	*Madison*
McClintock, Laura Madeline	*Washington, D. C.*
McConnell, Clark a	*Madison*
McFadgen, Annie Lysle	*Guelph, Ont., Canada*
McGarty, Cathryn Mathilda	*Mauston*
McNulty, Sadie A. a	*Spring Green*
McNutt, Howard Allen	*Hortonville*
Maloney, Agnes Marie	*Fond du Lac*
Meacham, Elmer Reynolds a	*Dawning*
Medeiros, Joaquim da Rocha l s	*Bahia, Brazil*
Melrose, Leland John	*Mondovi*
Metcalf, George Eugene	*Spring Green*
Meyer, Gertrude Ethel	*Oshkosh*
Michels, Jacob Peter	*Stanley*

Miller, Ada Elizabeth a	*Madison*
Monteith, Robert a	*Madison*
Morse, Mariam Sarah	*Madison*
Mungavin, Katherine L.	*Superior*
Murray, Helen Hyacintha a	*Madison*
Myers, Mamie Roberts	*Memphis, Tenn.*
Nelson, August a	*Madison*
Neuman, Marie Caroline	*Grand Rapids, Mich.*
New, Ruth	*Elizabeth, Ind.*
Nichols, Edward	*Seymour*
Nighbor, Stephen	*Berlin*
Oldfield, Bessie	*Elroy*
Oliver, Helen	*Jackson, Mo.*
Pancok, Louis Henry a	*St. Louis, Mo.*
Patton, Stella T. a	*Madison*
Perkins, Helen Hope a	*Princeton, Ill.*
Peterson, Ralph Abner a	*Ellsworth*
Peterson, Victor Henry	*Kibbie, Mich.*
Pfrang, Lloyd Lewis a	*Edgar*
Place, Nell Beatrice	*Marinette*
Price, Edward Ernest a	*Mauston*
Pusey, Ernest N.	*Bartles, Ky.*
Rieck, Chester E.	*Chicago, Ill.*
Rieser, Hermine	*Louisville, Ky.*
Robertson, Esther Mildred a	*Horicon*
Roehm, Ruth Madolyn	*Ashland*
Roes, Henry Stephan	*Kimberly*
Roewekamp, Frederick William	*Oshkosh*
Romig, Beatrice Sussane	*Madison*
Rover, Minna Evans	*Cincinnati, Ohio*
Rude, Marie Dora	*Dodgeville*
Ruhl, Rebecca Louise a	*Clarksburg, W. Va.*
Ruhsam, Erwin Henry a	*New London*
Rutter, Mary Lee	*Richland Center*
Sargent, Elvira	*Clayton, Ill.*
Schaenzer, Joseph Peter a	*Wabeno*
Schroeder, Meta Louise a	*Wausau*
Schwartzberg, Benjamin a	*Chicago, Ill.*
Scott, Cornelius Chapman, Jr. a	*Madison*
Sell, Elsie Josephine a	*Madison*
Severin, Gladys Marie	*Cedar Falls, Iowa*
Shaffer, Zena Hester	*Lancaster, Mo.*
Shanklin, Alfred Earl	*Ada, Ohio*
Sister Mary Magdalen Moreth	*Fond du Lac*
Sister Mary Praxedes Hahn	*St. Louis, Mo.*
Slininger, Gladys Lucille a	*Des Moines, Iowa*
Snook, Olive Albertina	*Des Moines, Iowa*
Sponholz, Herbert a	*Milwaukee*
Stackhouse, Katherine Frances a	*Indianapolis, Ind.*
Stader, Otto a	*Franklinville, N. Y.*
Stauffer, Katherine Baldwin a	*St. Louis, Mo.*
Steiner, Frances	*Milwaukee*
Stemmler, William Jr. a	*Milwaukee*

Stokdyk, Ellis Adolph	*Sturgeon Bay*
Taylor, Ardys Marie a	*Madison*
Thieman, Cecelia Magdalane	*Baraboo*
Thompson, Helen Lucy	*Omaha, Nebr.*
Tompkins, Hazel Myrtle a	*Phoenix, Ariz.*
Trickey, Dorothy May	*Berlin*
Trowbridge, Mildred	*St. Joseph, Mo.*
Tuttle, Thomas Westly	*Verona, N. J.*
Uhl, Allan Philip a	*Galesville*
Vail, Edna Cora a	*Springfield, Ill.*
Van Ermen, Marie Antoinette a	*Green Bay*
Van Hagen, George a	*Barrington, Ill.*
Vennus, Elizabeth Mary a	*Butte, Mont.*
Vidal, José Manuel a	*Ponce, Porto Rico*
Vincent, Agnes Willetta	*Milton*
Von Tobel, Maud	*Groton, S. D.*
Wade, Frances Irving	*Wauwatosa*
Wanzer, Howard Stanley	*Madison*
Ward, Dolores	*Wausau*
Weber, Leonore a	*Keokuk, Iowa*
Wheelock, Earle Nathaniel	*Wilmette, Ill.*
Wheelock, Margaret a	*Wilmette, Ill.*
White, Helen Virginia a	*Madison*
White, Myrna a	*Madison*
Wiechers, Henrietta	*Racine*
Williams, Edward Legrand	*Chetek*
Williams, Margaret Elizabeth a	*Berlin*
Wolfe, Margaret Josephine	*Madison*
Wood, Dorothy Belle a	*Nashotah*
Wright, George Burton	*Geneva, Ill.*
Wright, Grace Marie	*Sparta*
Wunderlich, Ida	*Appleton*
Yeomans, C. Louise a	*Minot, N. Dak.*
Young, Robert Archer	*Pardeeville*
Zingg, Helen	*Verona* —218

Law

Baker, Harold G.	*East St. Louis, Ill.*
Bradford, Alfred Stevens l	*Appleton*
Burlingame, Leroy James, B. A. l	*Madison*
Burmeister, Roy Frederick B. A. l	*Gratiot*
Conway, Paul Hoffmann l	*Watertown*
Davis, Dudley Hopkins l	*Madison*
Eberlein, Arthur Herman	*Wausau*
Fischer, Harrison Robert l	*Two Rivers*
Forehand, Harry Verne l	*Madison*
Galin, Peter, B. A.	*New Auburn*
Geffs, George Stricklett l	*Casey, Ill.*
Genrich, Fred W., Jr. l	*Wausau*
Grubb, Kenneth Philip l	*Mauston*
Harrington, Richard l	*Madison*
Higson, Francis Delmar, B. A. l	*West Bend*

Jackson, Hubert King, B. A.	*St. Louis, Mo.*
Lyon, Montague Jr.	*St. Louis, Mo.*
McDonald, Kenneth James	*Walnut Grove, Minn.*
McKeague, John Day l s	*Wautoma*
MacQuaid, John Harrison l	*Milwaukee*
Monk, Robert William l	*Neillsville*
Perry, Donald Moore l	*Black River Falls*
Peters, Robert LeRoy, B. A. l	*Blue River*
Richardson, Chester D. l	*Madison*
Riley, Harry William l	*Winneconne*
Robinson, Harry William l	*La Crosse*
Rodriguez, Eulogio B. g, w l s	*Manila, P. I.*
Rosenberg, Edwin Leo l	*Milwaukee*
Rosenblum, Harry Maurice l	*Terre Haute, Ind.*
Rouse, Floyd Ralph	*Danville, Ill.*
Schweichler, Lothar Adolph, B. A. l	*Milwaukee*
Shannon, Frank John, B. A.	*Oconomowoc*
Shuttleworth, Farrand Dames l	*Madison*
Staidl, Stanley Anton l	*Shawano*
Sutherland, Robert James l	*Madison*
Taylor, Paul Schuster, B. A.	*Sioux City, Ia.*
Thauer, Wallace	*Watertown*
Thurwachter, Raleigh Holmes l	*Fort Thomas, Ky.*
Torphy, Thomas Emmett	*Milwaukee*
Van Nette, Allison (Miss) B. S.	*Daphine, Ala.*
Waller, Theodore Adolph l	*Spring Valley*
Warner, John Clement, B. S. l	*Madison*
Wheeler, Sylvester Lawrence, B. A. l	*Wauwatosa*
Whelan, Allen l	*Mondovi*
Wilbert, Gustave Carl l	*Thiensville* —45

Library

Adams, Grace Lucille	*Menomonie*
Banting, Lilian, B. A.	*McFarland*
Belding, Grace M., B. S.	*Janesville*
Burdick, Olive Laura	*Grand Marsh*
Crawford, Helen Jennings, B. A.	*Hazel Green*
Dow, Lillian Jessie, B. A.	*Hartford*
Faber, Minnie Wilhelmine	*Marshfield*
Griffin, Tella Francis	*Albany*
Henry, Mary Muir	*Wonewoc*
Jamieson, Laura Belle, B. A.	*Poynette*
Krog, Lucein Hedwig	*Platteville*
Lincoln, Cora Olletha	*Richland Center*
Ludington, Lilla Bell	*Evansville*
Lyman, Marie	*Wauwatosa*
McDermott, Olive M.	*Darlington*
Marchant, Muriel Susanne	*Marinette*
Moore, Anna Rosalie, B. A.	*Cambridge*
Morse, Edna Lucretia, B. A.	*Ripon*
Pelzer, Melda Ruth	*New London*
Phernetton, Madge Lois	*Hammond*

Pitts, Ella Rose	*Platteville*	
Pitts, Mabel Mary	*Platteville*	
Richardson, Muriel Gudrum	*Chetek*	
Ruddock, Edith Lou, B. L.	*Platteville*	
Samuelson, Mabel Elvira	*Platteville*	
Senne, Gertrude May	*Kenosha*	
Taylor, Florence Wills, B. A.	*Linden*	
Toser, Marie Antoinette	*Milwaukee*	
Wood, Elsie May	*Waupun*	—29

STATISTICAL SUMMARIES

GRADUATES

		1919
Number of first degrees granted, 1854–1919	14,338	550
Present Courses:		
Courses leading to the degree of Bachelor of Arts, 1904–1919	4,871	330
(Included in the above is the Course in Commerce, 1904–1919, 623; 1919, 29; and the Course in Journalism, 1914–1919, 62; 1919, 12;)		
Course for Normal School Graduates, Ph. B., 1898–1919	571	21
Bachelor of Philosophy, General Course, Ph.B., 1917–1919	15	7
Chemistry Course, B. S., 1909–1919	132	13
Medical Science Course, B.S., 1909–1919	241	36
Pharmacy Course, B.S., 1895–1919	61	3
Pharmacy Course, Ph.G., 1884–1919	355	4
Bachelor of Music, B.M., 1917–1919	11	5
Course for Supervisors of Music, 1910–1919	98*	11*
Course in Agriculture, B.S., 1878–1919	817	30
Home Economics Course, B.S., 1909–1919	312	54
Course in Agriculture Middle Course), Ag.G., 1910–1919	145*	3*
Law Course, LL.B., 1869–1919	2,073	11
Civil Engineering Course, B.S., 1873–1919	695	8
Mechanical Engineering Course, B.S., 1876–1919	512	15
Electrical Engineering Course, B.S., 1892–1919	640	7
Chemical Engineering Course, B.S., 1903–1919	132	5
Mining Engineering Course, B.S., 1910–1919	38	1
Courses discontinued:		
Ancient Classical Course, B.A., 1854–1903	470	
Modern Classical Course, B.L., 1876–1903	548	
English Course, B.L. 1887–1903	459	
Civil Historical Course, B.L. 1893–1903	383	

*Not included in totals.

		1919
General Science Course, B.S., 1886–1903	722	
Geology, B.S., 1914	1	
School of Music, M.G., 1898–1916	134	
School of Commerce, (B.L., 8; B.S., 1), 1902–1903	9	
Normal Course, 1865–1868	25	
Metallurgical Engineering Course, B. M. E., 1876–1896	16	
General Engineering Course, B. S., 1901–1910	95	
Higher Degrees on Examination, 1875–1919	2,418	109
Master, 1879–1919	1,679	83
Engineer, 1879–1919	345	5
(Included in the above is the Advanced Course in Engineering, 1910–1917, 79.)		
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1919	392	21

DEGREES

Number of first degrees granted, 1854–1919		14,338
Bachelor of Arts, 1854–1919	5,341	
Bachelor of Philosophy, 1898–1919	586	
Bachelor of Letters, 1876–1903	1,398	
Bachelor of Science, 1873–1919	4,399	
Bachelor of Metallurgical Engineering, 1876–1896	16	
Bachelor of Laws, 1869–1919	2,073	
Bachelor of Music, 1917–1919	11	
Graduate in Music, 1896–1919	134	
Graduate in Pharmacy, 1884–1919	355	
Graduate in Agriculture (Middle Course), 1910–1919	145*	
Normal Course, 1865–1868	25	
Course for Supervisors of Music, 1910–1919	98*	
Higher degrees on examination, 1875–1919		2,418
Master, 1879–1919	1,679	
Engineer, 1879–1919	345	
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1919	392	
Grand Total of first and higher degrees granted, 1854–1919		16,756

*Not included in totals.

FACULTY

	Men	Women	Total
President and Deans	9	1	10
Professors	109	1	110
Associate Professors	73	4	77
Assistant Professors	124	24	148
Lecturers (giving part time)	32	1	33
Instructors	218	74	292
Assistants (mainly half time, but a few more than half time, and a considerable number less than half time)	103	57	160
Student Assistants (small part of time)	46	10	56
Total	714	172	886

The above summary includes:

a. Members of the instructional staff at Madison, both for resident instruction and for extension.

b. Extension workers throughout the state.

c. Administrative officers and librarians having the rank of any member of the instructional staff.

Included in the above summary are the following who are on leave of absence for the academic year, 1919–20: Professors, men, 3; Associate Professors, men, 3; Assistant Professors, men, 6; women, 1. Total, 13.

There are seven *emeritus* professors not included in the above summary.

STUDENTS

	Men	Women	Total	
GRADUATE SCHOOL—				
Fellows	37	13	50	
Scholars	15	21	36	
Other Graduate Students	291	130	421	
	343	164	507	
(Not carried to totals because included in lists below.)				
COLLEGE OF LETTERS AND SCIENCE—				
Graduate Students	243	139	382	
Seniors	385	345	730	
Juniors	550	495	1045	
Sophomores	596	431	1027	
Freshmen	993	606	1599	
Adult Specials, Fourth Year	1	2	3	
Adult Specials, Third Year	2	3	5	
Adult Specials, Second Year	6	3	9	
Adult Specials, First Year	73	20	93	
	2,849	2,044		4,893

Enrollment by Courses:	Men	Women	Total
Course in Commerce:			
Seniors	144	12	156
Juniors	220	32	252
Sophomores	266	52	318
Freshmen	551	66	617
Adult Special, Third Year	1	0	1
Adult Special, Second Year	1	0	1
Adult Specials, First Year	33	1	34
	1,216	163	1,379
Course for Normal School Graduates:			
Seniors	7	10	17
Juniors	13	22	35
	20	32	52
Course in Journalism:			
Seniors	14	19	33
Juniors	22	26	48
Sophomores	21	21	42
Freshmen	48	46	94
Adult Specials, Second Year	0	2	2
Adult Specials, First Year	5	1	6
	110	115	225
Course in Pharmacy:			
Four Year Course:			
Seniors	5	0	5
Juniors	4	1	5
Sophomores	4	0	4
Freshmen	3	1	4
Adult Special, First Year	1	0	1
Two Year Course:			
Second Year	17	2	19
First Year	51	4	55
	85	8	93
Course in Chemistry:			
Seniors	36	5	41
Juniors	35	5	40
Sophomores	22	13	35
Freshmen	21	3	24
	114	26	140
Course without Foreign Language Requirement:			
Seniors	7	2	9
Juniors	8	0	8
Sophomores	2	2	4
Freshmen	4	2	6
	21	6	27

	Men	Women	Total
School of Education:			
Graduate Students	7	5	12
Seniors	5	77	82
Juniors	19	114	133
Sophomores	3	43	46
Freshmen	7	55	62
Adult Special, Third Year	0	1	1
Adult Specials, First Year	1	1	2
	42	296	338

(Five senior men, two senior women, nine junior men, and seven junior women are in both the School of Education and the Course for Normal School Graduates. One senior man and one junior man are in both the School of Education and the Course without Foreign Language Requirement. One junior man is in both the School of Education and the Course in Commerce. One junior man is in both the School of Education and the Course in Journalism.)

Letters and Science Students not in Special Courses:			
Graduate Students	236	134	370
Seniors	167	220	387
Juniors	229	295	524
Sophomores	261	298	559
Freshmen	308	429	737
Adult Specials, Fourth Year	1	2	3
Adult Specials, Third Year	1	2	3
Adult Specials, Second Year	5	1	6
Adult Specials, First Year	33	17	50
	1,241	1,398	2,639
College of Engineering—			
Graduate Students	15	0	15
Seniors	107	0	107
Juniors	187	0	187
Sophomores	337	1	338
Freshmen	454	0	454
Adult Specials, Fourth Year	2	0	2
Adult Special, Third Year	1	0	1
Adult Specials, Second Year	3	0	3
Adult Specials, First Year	12	0	12
	1,118	1	1,119
Enrollment by Courses:			
Civil Engineering Course:			
Seniors	27	0	27
Juniors	42	0	42
Sophomores	62	0	62
Freshmen	91	0	91
Adult Special, Third Year	1	0	1
Adult Specials, First Year	5	0	5
	228	0	228

	Men	Women	Total	
Mechanical Engineering Course:				
Seniors	22	0	22	
Juniors	39	0	39	
Sophomores	91	0	91	
Freshmen	114	0	114	
Adult Specials, Second Year	2	0	2	
Adult Special, First Year	1	0	1	
	269	0	269	
Electrical Engineering Course:				
Seniors	25	0	25	
Juniors	53	0	53	
Sophomores	101	0	101	
Freshmen	155	0	155	
Adult Specials, Fourth Year	2	0	2	
Adult Special, Second Year.	1	0	1	
Adult Specials, First Year	4	0	4	
	341	0	341	
Chemical Engineering Course:				
Seniors	21	0	21	
Juniors	37	0	37	
Sophomores	64	1	65	
Freshmen	72	0	72	
Adult Special, First Year	1	0	1	
	195	1	196	
Mining Engineering Course:				
Seniors	12	0	12	
Juniors	16	0	16	
Sophomores	19	0	19	
Freshmen	22	0	22	
Adult Special, First Year	1	0	1	
	70	0	70	
COLLEGE OF AGRICULTURE—				
Graduate Students	85	25	110	
Seniors	84	66	150	
Juniors	104	73	177	
Sophomores	124	62	186	
Freshmen	210	74	284	
Adult Specials, Fourth Year	4	0	4	
Adult Specials, Third Year	1	1	2	
Adult Special, Second Year	1	0	1	
Adult Specials, First Year	25	3	28	
		638	304	942
Enrollment by Courses:				
Long Course:				
Graduate Students	85	13	98	
Seniors	84	4	88	
Juniors	104	4	108	
Sophomores	96	2	98	

	Men	Women	Total	
Freshmen	144	5	149	
Adult Specials, Fourth Year	4	0	4	
Adult Special, Third Year	1	0	1	
Adult Special, Second Year	1	0	1	
Adult Specials, First Year	13	1	14	
	532	29	561	
Middle Course:				
Second Year	28	2	30	
First Year	66	0	66	
Adult Specials, First Year	12	0	12	
	106	2	108	
Home Economics:				
Graduate Students	0	12	12	
Seniors	0	62	62	
Juniors	0	69	69	
Sophomores	0	58	58	
Freshmen	0	69	69	
Adult Special, Third Year	0	1	1	
Adult Specials, First Year	0	2	2	
	0	273	273	
School of Education (included above):				
Graduate Students	2	1	3	
Seniors	8	30	38	
Juniors	7	31	38	
Sophomores	2	0	2	
Adult Special, Third Year	0	1	1	
	19	63	82	
LAW SCHOOL—				
Third Year	41	0	41	
Second Year	30	2	32	
First Year	62	0	62	
Specials, Third Year	5	0	5	
Special, Second Year	1	0	1	
Specials, First Year	23	0	23	
Students in Letters and Science electing law studies	15	0	15	
	177	2		179
MEDICAL SCHOOL—				
Second Year	45	5	50	
First Year	77	15	92	
	122	20		142

SCHOOL OF MUSIC—	Men	Women	Total	
Four Year Course:				
Seniors	0	10	10	
Juniors	1	13	14	
Sophomores	1	7	8	
Freshmen	0	39	39	
Adult Special, Third Year	0	1	1	
Adult Special, Second Year	1	0	1	
Adult Special, First Year	1	0	1	
Supervisors' Course:				
Second Year	1	10	11	
First Year	1	25	26	
Adult Special, Second Year	0	1	1	
Unclassified Students	9	17	26	
	15	123		138
School of Education (included above):				
Seniors	0	4	4	
Juniors	0	5	5	
Sophomores	0	3	3	
Freshman	0	1	1	
Second Year, Supervisors' Course	0	7	7	
First Year, Supervisors' Course	1	19	20	
Adult Special, Sophomore, Four Year Course	1	0	1	
	2	39	41	
Students in other Colleges electing Music—154.				
WISCONSIN LIBRARY SCHOOL—				
Library Course	2	26	28	
Joint Course	4	5	9	
	6	31		37
TOTAL	4,925	2,525	7,450	
Deducting twice enumerated	132	24	156	
NET TOTAL, REGULAR YEAR	4,793	2,501	7,294	

The item of 156 students twice enumerated occurs because of double classification in two colleges as follows:

Letters and Science and Medicine	112	19	131
Letters and Science and Law	16	0	16
Letters and Science and Wisconsin Library School	4	5	9
	132	24	156

	Men	Women	Total	
SUMMER SESSION OF 1919—				
College of Letters and Science:				
Graduate Students	254	511	765	
Undergraduates and Teachers	746	1,086	1,832	
College of Engineering:				
Graduate Students	4	0	4	
Undergraduates and Teachers	216	0	216	
College of Agriculture:				
Graduate Students	31	24	55	
Undergraduates and Teachers	85	133	218	
Law School	44	1	45	
School of Music	4	45	49	
(Students in other colleges electing Music—38.)				
Library School	0	29	29	
	1,384	1,829	3,213	
Deducting students in attendance during regular year	686	350	1,036	
		698	1,479	2,177
The 978 students in attendance during the regular year are classified as follows:				
College of Letters and Science:				
Graduate Students	42	26	68	
Undergraduates and Teachers	387	264	651	
College of Engineering:				
Graduate Student	1	0	1	
Undergraduates and Teachers	170	0	170	
College of Agriculture:				
Graduate Students	12	3	15	
Undergraduates and Teachers	38	47	85	
Law School	33	0	33	
School of Music	3	10	13	
	686	350	1,036	
ADDITIONAL ENROLLMENT—				
College of Agriculture:				
Short Course in Agriculture:				
Second Year	63	1	64	
First Year	336	3	339	
	399	4	403	
Dairy Course	132	1	133	
		531	5	536

	Men	Women	Total	
FEDERAL BOARD STUDENTS RECEIVING VOCATIONAL EDUCATION—				
College of Letters and Science:				
Graduate Students	2	0	2	
Undergraduate Students	61	0	61	
College of Agriculture:				
Graduate Students	2	0	2	
Undergraduate Students	130	0	130	
College of Engineering:				
Undergraduate Students	33	0	33	
Law School	7	0	7	
School of Medicine	3	0	3	
School of Music	1	0	1	
	239	0	239	
Deducting students twice enumerated	91	0	91	
		148	0	148
GRAND TOTAL EXCLUDING EXTENSION STUDENTS		6,170	3,985	10,155
The 91 Federal Board Students twice enumerated are included above in the number of students for the regular year and are classified as follows:				
College of Letters and Science:				
Graduate Students	2	0	2	
Undergraduate Students	45	0	45	
College of Agriculture:				
Graduate Students	2	0	2	
Undergraduate Students	17	0	17	
College of Engineering:				
Undergraduate Students	14	0	14	
Law School	7	0	7	
School of Medicine	3	0	3	
School of Music	1	0	1	
	91	0	91	
EXTENSION DIVISION (EXTRA-MURAL COLLEGE)—				
Correspondence-Study Department				13,124

This total enrollment comprises all those who have enrolled for correspondence instruction within the current year up to March 1st and also those carried over who had enrolled prior to July 1st, 1919, but whose registrations were then in force and whose time limit for completion of work had not terminated. Correspondence-Study enrollments are made at any time throughout the entire year.

SUMMARY BY STATES, FOREIGN COUNTRIES AND SEX

	Men	Women	Total
Wisconsin	4,613	2,146	6,759
Illinois	403	480	883
Indiana	120	177	297
Iowa	128	161	289
Missouri	62	171	233
Ohio	71	138	209
Michigan	69	110	179
Minnesota	92	73	165
South Dakota	78	44	122
Pennsylvania	34	39	73
Kentucky	30	41	71
Kansas	27	42	69
New York	37	29	66
North Dakota	35	31	66
Nebraska	18	46	64
Texas	27	28	55
Montana	26	20	46
Oklahoma	11	22	33
Massachusetts	17	14	31
District of Columbia	9	19	28
Tennessee	12	16	28
California	12	12	24
New Jersey	12	9	21
Colorado	12	8	20
Idaho	12	5	17
Maryland	8	9	17
West Virginia	8	9	17
Virginia	11	5	16
Washington	6	8	14
Oregon	6	6	12
Alabama	7	3	10
Mississippi	6	4	10
Arkansas	4	5	9
Florida	4	5	9
Georgia	4	4	8
Utah	4	4	8
Wyoming	3	5	8
Louisiana	1	6	7
Connecticut	2	3	5
Delaware	1	3	4
New Mexico	2	2	4
South Carolina	4	0	4
North Carolina	2	1	3
Vermont	3	0	3
Arizona	2	0	2
Maine	2	0	2
Nevada	1	1	2
New Hampshire	1	1	2
Rhode Island	1	0	1
Total for States	6,060	3,965	10,025

	Men	Women	Total
China	32	0	32
Norway	20	2	22
Philippine Islands	14	1	15
Canada	5	8	13
Japan	12	0	12
France	2	6	8
South Africa	5	0	5
India	4	0	4
Brazil	3	0	3
Peru	2	0	2
Armenia	1	0	1
Columbia	1	0	1
England	0	1	1
Finland	1	0	1
Germany	1	0	1
Guatemala	1	0	1
Hawaii	1	0	1
Iceland	1	0	1
Mexico	0	1	1
Porto Rico	1	0	1
Spain	1	0	1
Sweden	0	1	1
Switzerland	1	0	1
Total for Foreign Countries	110	20	130
Total for Entire Year	6,170	3,985	10,155
Students registered for regular year, 1919–20:			
Resident	3,672	1,535	5,207
Nonresident	1,121	966	2,087
	4,793	2,501	7,294
Students registered in summer session of 1919 and not during the regular year:			
Resident	349	609	958
Nonresident	349	870	1,219
	698	1,479	2,177
Additional Enrollment, College of Agriculture:			
Resident	466	2	468
Nonresident	65	3	68
	531	5	536
Additional Enrollment, Vocational Students:			
Resident	126	0	126
Nonresident	22	0	22
	148	0	148

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