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THE UNIVERSITY OF WISCONSIN

CATALOGUE

1923-1924

LLETIN OF THE UNIVERSITY OF WISCONSIN

Serial No. 1256, General Series No. 1035

THE UNIVERSITY OF WISCONSIN

CATALOGUE

1923-24

MADISON

Published by the University

May, 1924

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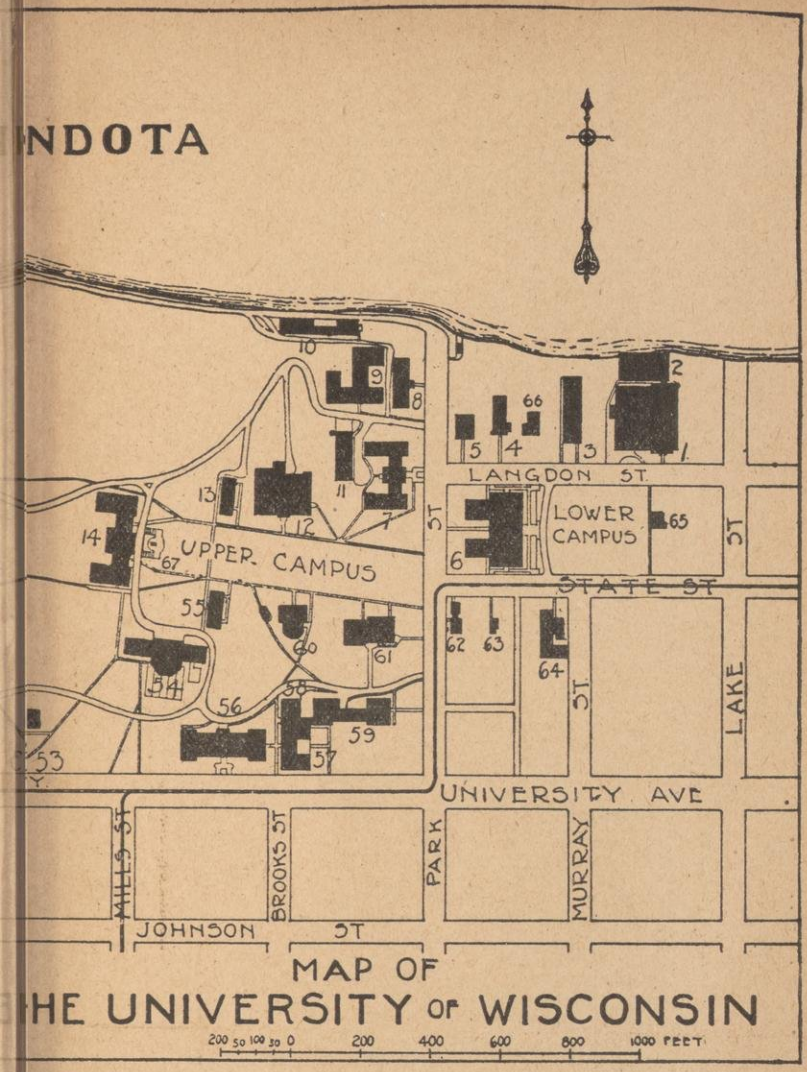
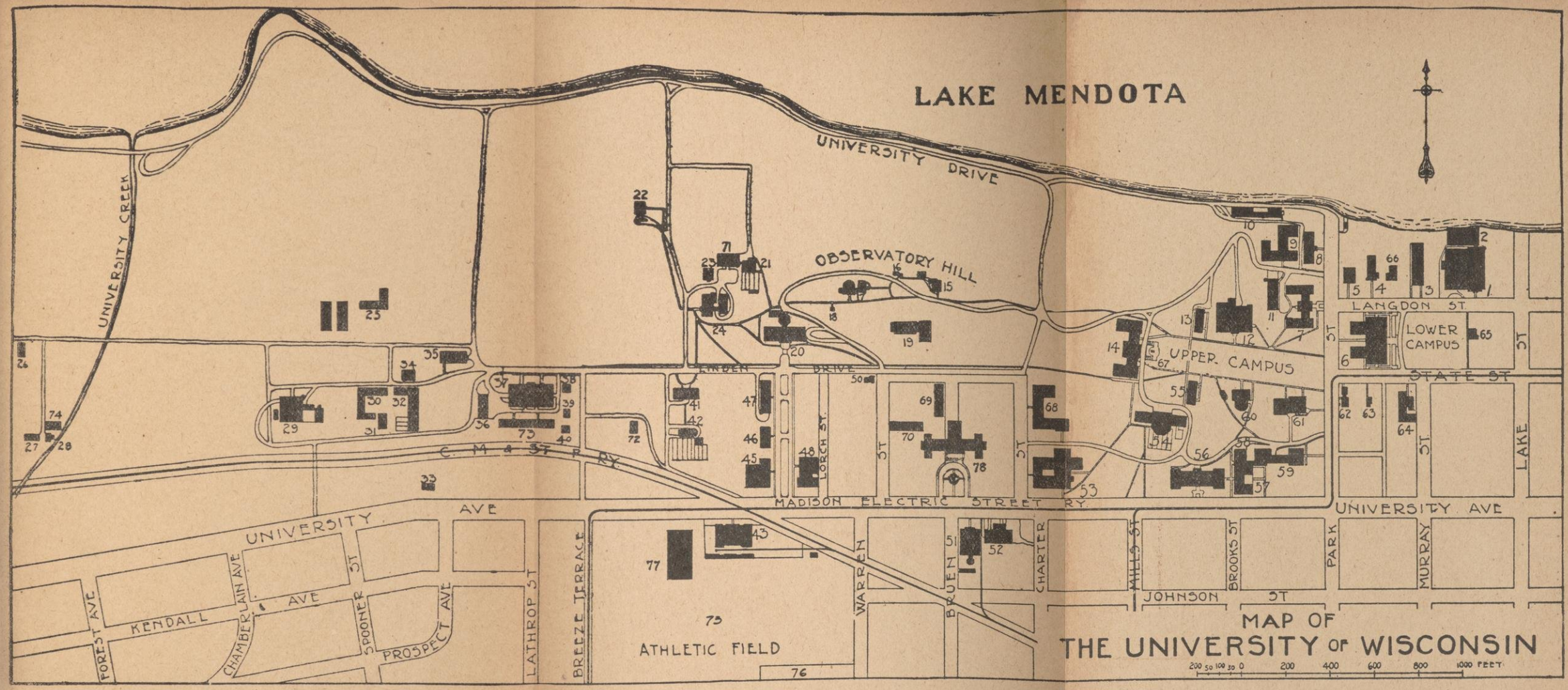


Poultry House.
Randall Shops.
Residence of Astronomer.
Residence of Dean of Agriculture.
Residence of Farm Superintendent.
Residence of President.
Residence of Stock Superintendent.
Science Hall.
Serum Plant
Serum Plant.
Service Building.
Sheep Barn.
Sheep Pavilion.

71 Soils Building.
55 South Hall.
6 State Historical Library.
78 State of Wisconsin General Hospital
68 Sterling Hall.
37 Stock Pavilion.
70 Student Infirmary.
66 Student Union.
73 Timber Mechanics Laboratory.
26 Tobacco Shed.
64 University Club.
36 Wagon Shed.
48 Wisconsin High School.
3 Y. M. C. A. Building.



62 Administration Building.
45 Agricultural Chemistry Building.
47 Agricultural Engineering Building.
20 Agricultural Hall.
46 Agronomy Building.
63 Alumni Headquarters.
65 Applied Arts Laboratory.
75 Athletic Field—Camp Randall.
57 Barnard Hall.
14 Bascom 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 Electrical Laboratory.
72 Entomology Building.
19 Extension Division.
39 Farm Dormitory.
43 Forest Products Laboratory.
32 Genetics Building.
1 Gymnasium and Armory with Annex.
25, 27 Hog Barns.
19 Home Economics Building.
35 Horse Barn.
41 Horticultural Building.
10 Hydraulic Laboratory and Pump House.
34 Implement Shed.
9 Industrial Arts Laboratory.
58 Kitchen, University Commons.
56 Lathrop Hall.
60 Law Building.
6 Library.
67 Lincoln Statue.
9 Machine Shops.
76 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.
21 Old Soils Building.
42 Potting House.
33 Poultry House.
77 Randall Shops.
15 Residence of Astronomer.
22 Residence of Dean of Agriculture.
40 Residence of Farm Superintendent.
5 Residence of President.
38 Residence of Stock Superintendent.
7 Science Hall.
28 Serum Plant
74 Serum Plant.
52 Service Building.
30 Sheep Barn.
31 Sheep Pavilion.
71 Soils Building.
55 South Hall.
6 State Historical Library.
78 State of Wisconsin General Hospital
68 Sterling Hall.
37 Stock Pavilion.
70 Student Infirmary.
66 Student Union.
73 Timber Mechanics Laboratory.
26 Tobacco Shed.
64 University Club.
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 the President.
6 State Historical Library.
7 Science Hall.
8 Chemical Engineering Building.
9. Engineering and Industrial Arts Laboratories.
10 Hydraulic Laboratory and Pump House.
11 Mining Engineering Laboratory.
12 Engineering Building.
13 North Hall.
14 Bascom 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 Old Soils 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 Sheep Pavilion.
32 Genetics Building.
33 Poultry House.
34 Implement Shed.
35 Horse Barn.
36 Wagon Shed.
37 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 Sterling Hall.
69 Bradley Memorial Hospital.
70 Student Infirmary.
71 Soils Building.
72 Entomology Building.
73 Timber Mechanics Laboratory.
74 Hog Cholera Serum Plant.
75 Athletic Field.
76 Women's Field House
77 Randall Shops
78 State of Wisconsin General Hospital

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CALENDAR FOR 1924

JANUARY						
S	M	T	W	T	F	S
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6	7	8	9	10	11	12
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FEBRUARY						
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CALENDAR FOR 1925

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AUGUST						
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SEPTEMBER						
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OCTOBER						
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NOVEMBER						
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DECEMBER						
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* Single vacation day.

† Vacation from noon to noon inclusive.

CALENDAR

THE ACADEMIC YEAR 1923-24

1923			
*Sept.	20-22	Thurs.-Sat. (Noon)	Early registration days.
Sept.	24-25	Monday-Wednesday	Registration days.
Sept.	24-25	Monday-Tuesday	Examinations for admission.
Sept.	26	Wednesday	Lectures and recitations begin.
Sept.	29	Saturday	Special examinations for removal of conditions.
Nov.	29	Thursday	Thanksgiving day legal and only holiday.
Dec.	19	Wednesday (Noon)	Christmas recess begins.
1924			
Jan.	3	Thursday (8 A.M.)	Exercises resumed.
Jan.	12	Saturday	Examinations for the removal of conditions.
Jan.28-Feb.6		Monday-Tuesday	Final examinations, first semester.
Feb.	7-8	Thursday-Friday	Registration days, second semester.
Feb.	11	Monday	Lectures and recitations begin.
Feb.	22	Friday	Washington's Birthday; legal holiday.
Apr.	9-15	Wed.-Tu. (Inclusive)	Spring recess.
Apr.	19	Saturday	Examinations for removal of conditions.
May	30	Friday	Memorial Day; legal holiday.
June	9-17	Monday-Tuesday	Final examinations, second semester.
June	16-17	Monday-Tuesday	Examinations for admission.
June	20-23	Friday-Monday	Commencement exercises.

COMMENCEMENT WEEK

June 20	Friday	Class Day Exercises
June 21	Saturday	Alumni Day
June 22	Sunday	Baccalaureate Address
June 23	Monday	Commencement Day

Summer Session 1924

Monday, June 23	Law School opens
Monday, June 30	Lectures begin in all Colleges and Schools
Friday, August 8	Colleges and Graduate School close
Friday, August 29	Law School closes

THE ACADEMIC YEAR, 1924-25

1924

September 18, 20	Thurs.-Sat. (Noon)	Early registration days
September 22, 23	Monday, Tuesday	Registration days
September 22, 23	Monday-Tuesday	Examinations for admission
September 24	Wednesday	Lectures and recitations begin
September 27	Saturday	Special examinations for removal of conditions
November 27	Thursday	Thanksgiving day; legal and only holiday
December 19	Friday (Noon)	Christmas recess begins

1925

January 6	Tuesday (8 A.M.)	Exercises resumed
January 17	Saturday	Examinations for removal of conditions
Jan. 26-Feb. 4	Mon.-Wed.	Final examinations, first semester
February 5, 6	Thursday, Friday	Registration days, second semester
February 9	Monday	Lectures and recitations begin
February (22) 23	Monday	Washington's Birthday; legal holiday
April 8-14	Wed.-Tues. (incl.)	Spring recess
May 30	Saturday	Memorial Day; legal holiday
June 8-16	Monday-Tuesday	Final examinations; second semester
June 15-16	Monday-Tuesday	Examinations for admission.
June 19-22	Friday-Monday	Commencement exercises

Summer Session 1925

Monday, June 22	Law School opens
Monday, June 29	Lectures begin in all Colleges and Schools
Friday, August 7	Colleges and Graduate School close
Friday, August 28	Law School closes

*Freshmen in the College of Letters and Science may get class assignments on Friday, September 19, and Saturday morning, September 20.

THE UNIVERSITY OF WISCONSIN

ORGANIZATION AND DIRECTORY OF ADMINISTRATIVE OFFICERS

EDWARD A. BIRGE, President—Bascom Hall.

EDUCATIONAL ADMINISTRATION

SCOTT H. GOODNIGHT, Dean of Men—South Hall.
F. LOUISE NARDIN, Dean of Women—Lathrop Hall.
CHARLES A. SMITH, Secretary of the Faculty—Bascom Hall.
WILLIAM D. HIESTAND, Registrar—Bascom Hall.
THOMAS LLOYD JONES, Chairman, Committee on High School Relations—Bascom Hall.
WALTER M. SMITH, Librarian—Library.

BUSINESS ADMINISTRATION

JAMES D. PHILLIPS, Business Manager—Administration Building.
MAURICE E. MCCAFFREY, Secretary of the Regents—Administration Building.
CLARENCE W. VAUGHN, Accountant—Administration Building.
GLENN L. GILBERT, Bursar—Administration Building.
FRANCIS X. RITGER, Purchasing Agent—Administration Building.
BLANCHE F. NOER, (in charge) Editor's Office.
GRANT M. HYDE, Editor of the Press Bulletin—South Hall.

The College of Letters and Science

GEORGE C. SELLERY, Dean—102 South Hall.
FREDERIC W. ROE, Junior Dean—103 South Hall.
HARRY GLICKSMAN, Assistant Dean—103 South Hall.

THE SCHOOL OF MUSIC

Charles H. Mills, Director—22 Music Hall.

THE COURSE IN CHEMISTRY
J. Howard Mathews, Director—153 Chemistry Building.
THE CHEMISTRY-COMMERCE COURSE
J. Howard Mathews, Director—153 Chemistry Building.
THE COURSE IN COMMERCE
William A. Scott, Director—406 Sterling Hall.
THE COURSE IN JOURNALISM
Willard G. Bleyer, Director—301 South Hall.
THE COURSE IN HUMANITIES
Eugene Byrne, Chairman—123 Library.
THE LIBRARY SCHOOL
Clarence B. Lester, Director—Capitol.
THE COURSE IN PHARMACY
Edward Kremers, Director—303 Chemistry Building.
THE SCHOOL OF EDUCATION
Vivian A. C. Henmon, Director—123 Bascom Hall.
COURSES IN INDUSTRIAL EDUCATION AND APPLIED ARTS
*Ira S. Griffith, Chairman—Industrial Arts Laboratory.
COURSE IN PHYSICAL EDUCATION
Guy S. Lowman, Chairman—1B Gymnasium.
THE DEPARTMENT OF PHYSICAL EDUCATION
Thomas E. Jones, Chairman—1A Gymnasium.

The College of Engineering

FREDERICK E. TURNEAURE, Dean—111 Engineering Building.
ADAM V. MILLAR, Assistant Dean—208 Engineering Building.
THE CIVIL ENGINEERING COURSE
THE MECHANICAL ENGINEERING COURSE
THE ELECTRICAL ENGINEERING COURSE
THE CHEMICAL ENGINEERING COURSE
THE COURSE IN MINING, METALLURGY, AND GEOLOGY.

The College of Agriculture

HARRY L. RUSSELL, Dean—101 Agricultural Hall.
JOHN A. JAMES, Assistant Dean—105 Agricultural Hall.
THE EXPERIMENTAL STATION—Frank B. Morrison, Assistant Director, 105 Agricultural Hall.
EXTENSION SERVICE—Kirk L. Hatch, Assistant Director. 104 Agricultural Hall.

*Died April 30, 1924.

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—Edward H. Farrington—Hiram Smith Hall.
THE FARMERS' INSTITUTE—Ernest L. Luther, Superintendent.

The Law School

HARRY S. RICHARDS, Dean—Law Building.

The Medical School

CHARLES R. BARDEEN, Dean—Clinical Building.

The Graduate School

CHARLES S. SLICHTER, Dean—157 Bascom Hall.

The University Extension Division

LOUIS E. REBER, Dean—108 University Extension Building.

The Summer Session

SCOTT H. GOODNIGHT, Director—201 South Hall.

THE REGENTS OF THE UNIVERSITY

EDWARD A. BIRGE, *President of the University, ex officio.*
JOHN CALLAHAN, *State Superintendent of Public Instruction, ex off.*

	TERM EXPIRES
State-at-Large—GILBERT E. SEAMAN, Milwaukee	1925
State-at-Large—MISS ZONA GALE, Portage	1929
State-at-Large—FRED E. BACHMAN, Appleton	1930
State-at-Large—JOHN C. SCHMIDTMANN, Manitowoc	1925
First District—A. J. HORLICK, Racine	1926
Second Disrict—DANIEL H. GRADY	1930
Third District—HARRY L. BUTLER, Madison	1925
Fourth District—MISS LEOLA M. HIRSCHMAN, Milwaukee	1928
Fifth District—THEODORE KRONSHAGE, Milwaukee	1927
Sixth District—MISS ELIZABETH A. WATERS, Fond du Lac	1927
Seventh District—D. O. MAHONEY, Viroqua	1926
Eighth District—FRANKLIN A. NACE, Iola	1928
Ninth District—JOHN E. CASHMAN, Denmark	1930
Tenth District—BEN F. FAAST, Eau Claire	1926
Eleventh District—C. B. CASPERSON, Frederic	1929

Officers of the Regents

, *President*
BEN F. FAAST, *Vice President*
SOLOMON LEVITAN, *State Treasurer, ex officio Treasurer*
J. D. PHILLIPS, *Business Manager*
M. E. MCCAFFREY, *Secretary*

THE BOARD OF VISITORS

Regent Appointments

		Term Expires
Loyal Durand	Milwaukee	July 1, 1924
Edward M. McMahon	Milwaukee	July 1, 1925
Mrs. Charles R. Carpenter	Madison	July 1, 1926
George P. Hambrecht	Madison	July 1, 1927

Alumni Appointments

B. E. McCormick	La Crosse	July 1, 1924
Mrs. Francis T. H'Doubler	Springfield, Mo.	July 1, 1925
Mrs. Howard Greene	Milwaukee	July 1, 1926
Israel Shrimski	Chicago, Ill	July 1, 1927

Governor's Appointments

E. B. Belden	Racine	July 1, 1924
Carl J. Hesgard	Orfordville	July 1, 1925
W. A. Titus	Fond du Lac	July 1, 1926
Mrs. C. E. Patzer	Milwaukee	July 1, 1927

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The number preceding the name indicates:
[1]Leave of absence, academic year, 1923-24.
[2] Leave of absence, second semester, 1923-24.
[3]Leave of absence, second semester, 1923-24.
[4]Leave of absence to January 3, 1924.
[5]Appointment for part of the year, 1923-24.
[6]Leave of absence, first semester, 1924-25.

BIRGE, EDWARD ASAHEL, Ph.D., Sc.D., LL.D., President of the University. *B. H.* 158 — 772 Langdon

PARKINSON, JOHN BARBER, M.A., LL.D., Vice President and Professor of Constitutional and International Law. *Emeritus* — 516 Wisconsin Ave

AAGARD, ARTHUR HILDEMAN, B.S., Assistant Professor of Steam and Gas Engineering. *E. B.* 224 — 27 W. Dayton

ADKINS, HOMER BURTON, Ph.D., Assistant Professor of Chemistry. *C. B.* 309 — 1602 Jefferson

ALEXANDER, ALEXANDER SEPTIMUS, F.H., A.S., M.D.C., Professor of Veterinary Science. *A. H.* — 811 Spaight

[3]ALLEN, CHARLES ELMER, Ph.D., Professor of Botany. *B. B.* 104 — 2014 Chamberlin Ave

ALLEN, CHESTER, District Representative, Oshkosh District, Extension Division. *F. R. A. Bldg.* — 53 Merritt St., Oshkosh

ALLEN, KATHARINE, Ph.D., Assistant Professor of Latin. *B. H.* 267 — 228 Langdon

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AUST, FRANZ A., A., M.S., Associate Professor of Landscape Design. *H. B.* 119 — 2202 Commonwealth Ave.

AVEY, HARRY THOMPSON, M.E., Assistant Professor of Engineering, Milwaukee District, Extension Division. 542 *Jackson St.* — 1213 Richards St., Milwaukee

BABCOCK, STEPHEN MOULTON, Ph.D., LL.D., Sc.D., Professor of Agricultural Chemistry. *Emeritus. A. C. B.* 204 — 432 N. Lake

BARDEEN, CHARLES RUSSELL, M.D., Dean of the Medical School. Professor of Anatomy. *Clin. B.* — 23 Mendota Ct

BARKER, GEORGE J., M.E., Assistant Professor of Mining and Metallurgy. *E. B.* 212 — 124 Breese Terrace

BASCOM, LELIA M.A., Assistant Professor of English. *U. E. B.* 212 — 419 Sterling Pl

BAST, THEODORE HIERONYMUS, Ph.D., Assistant Professor of Anatomy. *Sc. H.* 308 — 835 Lakeland Ave

BATEMAN, ERNEST, Ph.D., Lecturer in Forest Products. *F. P. L.* 23 — Nakoma

BEACH, BURR A., D.V.M., Associate Professor of Veterinary Science. *A. H.* 204 — Nakoma

[1]BEATTY, ARTHUR, Ph.D., Associate Professor of English. *B. H.* 365 — 1824 Vilas

BEECHER, BENJAMIN SANFORD, M.A., Lecturer in Economics. *Bank of Wisconsin Bldg.* 302 — 2318 Keyes Ave

BENNETT, EDWARD, E.E., Professor of Electrical Engineering. *E. B.* 206 — 1919 Jefferson

BENSON, ARNOLD ORLANDO, B.S., Lecturer in Forest Products. *F. P. L.* 3 — 1331 Mound

BEWICK, THOMAS LYMAN, M.S., Associate Professor of Agricultural Extension. State Leader, Boys and Girls Agricultural Clubs. *A. H.* 115 — 1927 West Lawn Ave

BLANKINSHIP, RAY CARRINGTON, M.D., Assistant Professor of Clinical Medicine. *Clin. B.* 10 — 762 Langdon

BLANTON, SMILEY, M.D., D.P.M., Associate Professor of Speech Hygiene. Consultant in Psychiatry. *B. H.* 403 — 2121 Adams

BLEYER, WILLARD GROSVENOR, Ph.D., Director of the Course in Journalism. Professor of Journalism. *S. H.* 33 — 423 N. Carroll

BLOOD, FORREST CLIFFORD, M.A., Associate Professor of Business Administration, Milwaukee District, Extension Division. 471 *Van Buren St.* — 1120 Frederick Ave., Milwaukee

BOESEL, FRANK TILDEN, Ph.B., LL.B., Lecturer in Law. *L. B.* 308 Caswell Bldg., Milwaukee

BORDEN, FRED GUY, Captain, Signal Corps, U. S. A. Second Assistant Commandant. Assistant Professor of Military Science and Tactics. *Armory* 3 930 Emerald

BRADLEY, HAROLD CORNELIUS, Ph.D., Professor of Physiological Chemistry. *Sc. H.* 7 College Hills

BRADLEY, ROBERT FOSTER, JR., M.A., Assistant Professor of Romance Languages. *B. H.* 324 1914 Vilas

BRANN, JOHN WILLIAM, M.S., Assistant Professor of Horticulture and Plant Pathology. *H. B.* 112 811 Garfield

BRIGGS, GEORGE MCSPADDEN, B.S., Extension Specialist in Agronomy. Assistant State Leader of County Agricultural Representatives. *Agron. B.* 2611 McKinley

BRINK, ROYAL ALEXANDER, M.S., Sc.D., Assistant Professor of Genetics. *A. C. B.* 202c 1303 W. Dayton

BROWN, RAY ANDREWS, B.A., LL.B., S.J.D., Assistant Professor of Law. *L. B.* 31 1805 University Ave

BRUNS, FRIEDRICH, Ph.D., Assistant Professor of German. *B. H.* 257 2330 Rowley Ave

BRUNZELL, OTTO LOUIS, B.S., Major, Field Artillery U. S. A. Commandant. Professor of Military Science and Tactics. *Armory* 2 2113 Kendall Ave

BRYAN, GEORGE SMITH, Ph.D., Assistant Professor of Botany. *B. B.* 203 803 State

BUERKI, ROBIN CARL, B.S., M.D., Acting Superintendent of the Wisconsin General Hospital. *Clin. B.* 28 Breese Terrace

BUNTING, CHARLES HENRY, B.S., M.D., Professor of Pathology. *Sc. H.* 326 2020 Chadbourne Ave

BURKE, LAURENCE CHARLES, B.L., Assistant Librarian. *Lib.* 1926 Rowley Ave

BURLEIGH, CECIL, Associate Professor of Music. *M. H.* 23 304 Princeton Ave

BYRNE, EUGENE HUGH, Ph.D., Associate Professor of History. *B. H.* 207 240 Lake Lawn Pl

CAIRNS, WILLIAM B., Ph.D., Associate Professor of American Literature. *B. H.* 367 2010 Madison

CAMP, PAULINE BEATRICE, Lecturer in Speech Hygiene. *Capitol* 301 Norris Ct

CARNS, MARIE LOUISE, B.A., Assistant Professor of Physical Education. *Lathrop* 415 Sterling Pl

[5]CARTER, HOMER MCCLELLAND, M.D., Lecturer in Clinical Medicine. 621 *First Central Bldg.* 206 N. Spooner

CHAPMAN, CLINTON JOSEPH, B.S., Assistant Professor of Soils, State Soils Laboratory. *New S. B.* 2222 Van Hise Ave

CHASE, WAYLAND JOHNSON, M.A., Associate Professor of Education and the Teaching of History. *B. H.* 209 1727 Summit Ave

CHEYDLEUR, FREDERIC DANIEL, Ph.D., Associate Professor of Romance Languages. *B. H.* 308 2109 Rowley Ave

CLAPP, FRANK LESLIE, Ph.D., Professor of Education. *B. H.* 119. 315 Virginia Terrace

CLARK, PAUL FRANKLIN, Ph.D., Professore of Bacteriology. *Sc. H.* 417 2136 Van Hise Ave

CLARK, WARREN W., B.S., Assistant State Leader, County Agricultural Representatives. *A. H.* 104 719 Ellis St., Stevens Point

CODDINGTON, HESTER, Assistant Librarian. *Lib.* 220 419 Sterling Pl

COLE, ADRIAN H., Ph.B., Assistant Professor of Agricultural Extension (U. S. Veterans' Bureau Rehabilitation Work). *A. H.* 105 611 S. Prospect Ave

[1]COLE, LEON JACOB, Ph.D., Professor of Genetics. *A. C. B.* 202 1903 Rowley Ave

[2]COMMONS, JOHN ROGERS, M.A., LL.D., Professor of Economics. *St. H.* 325 R. D. 7

COMSTOCK, GEORGE CARY, Sc.D., LL.D., Professor of Astronomy. *Emeritus* Beloit

COMSTOCK, JOSEPH HOOKER, M.S., Assistant Professor of Military Science and Tactics. *Armory* 1212 Chandler

COOL, CHARLES DEAN, Ph.D., Associate Professor of Romance Languages. *B. H.* 306 1921 Keyes Ave

COON, LELAND AVERY, B.A., Associate Professor of Music. *M. H.* 26 1904 Kendall Ave

COOPER, LOUIS ALBION, B.A., Associate Professor of English. *B. H.* 355 415 Sterling Pl

CORP, CHARLES IVES, M.S., M.E., Professor of Hydraulic and Sanitary Engineering. *Hyd. Lab.* 4 2114 Westlawn Ave

[3]COWLES, MAY LOUISE, M.S., Assistant Professor of Home Economics. *H. E. B.* 323 415 Sterling Pl

CRANE, RICHARD ZEIGLER, First Lieutenant, Ordnance Department, U. S. A. Assistant Professor of Military Science and Tactics. *Armory* 3 303 Princeton Ave

CURRAN, CARLETON EDGAR, Ph.D., Lecturer in Forest Products. *F. P. L.* Sunset Point Road

DANIELS, FARRINGTON, Ph.D., Assistant Professor of Chemistry. *C. B.* 55 Nakoma

DAVIS, IRA CLEVELAND, B.A., Assistant Professor in the Teaching of Science. *W. H. S.* 305 1810 Kendall Ave

DAVIS, JOHN JEFFERSON, B.S., M.D., Curator of the Herbarium. *B. B.* 261 419 Sterling Pl

DAWSON, PERCY MILLARD, B.A., M.D., Assistant Professor of Physiology. *Sc. H.* 116c 504 N. Carroll

[5]DEAN, JOSEPH, M.D., Lecturer in Surgery. 22-24 *N. Carroll* 504 E. Gorham

DELWICHE, EDMOND JOSEPH, M.S., Professor of Agronomy. In Charge of Ashland, Spooner and Peninsular Branch Experiment Stations. *Sheridan Bldg.* 304 R. D. 3, Green Bay

DENNISTON, ROLLIN HENRY, Ph.D., Assistant Professor of Botany. *B. B.* 409 — 803 State

DICKSON, JAMES GEERE, Ph.D., Associate Professor of Plant Pathology. *H. B.* 202-3 — Nakoma

DODGE, BERNICE FRANCES, B.S., Assistant Professor of Home Economics. *H. E. B.* 222 — 444 N. Randall

DODGE, ROBERT ELKIN NEIL, M.A., Associate Professor of English. *B. H.* 365 — 148 W. Gorham

DONALD, JOHN SWEET, B.S., D.D.S., Extension Specialist in Agricultural Economics. *A. H.* 301 — 211 Prospect Ave

DOWLING, LINNAEUS WAYLAND, Ph.D., Associate Professor of Mathematics. *N. H.* 204 — 2 Roby Road

DRESDEN, ARNOLD, Ph.D., Associate Professor of Mathematics. *N. H.* 302 — 2114 Vilas

DUDLEY, WILLIAM HENRY, B.A., Assistant Librarian. *Lib.* 232 — 1909 Regent

DUDLEY, WILLIAM HENRY, Chief, Bureau of Visual Instruction, Extension Division. *U. E. B.* 311 — 148 Breese Terrace

DUFFEE, FLOYD W., B.S., Associate Professor of Agricultural Engineering. *A. E. B.* 107 — 2227 Commonwealth Ave

DUNCAN, ROBERT BURNS, Chief and Secretary, Bureau Instruction by Lectures, Extension Division. *U. E. B.* 208 — 1315 W. Dayton

DYKEMA, PETER WILLIAM, M.L., Professor of Music. *M. H.* 33 — College Hills

EDWARDS, MARTHA LETITIA, Ph.D., Assistant Professor of History. *U. E. B.* 209 — 417 Sterling Pl

ELLIOTT, BENJAMIN GEORGE, M.S., M.E., Professor of Mechanical Engineering. *U. E. B.* 305 — 221 Clifford Ct

ELSOM, JAMES CLAUDE, M.D., Associate Professor of Physical Education. Mechanotheropist, Bradley Memorial Hospital. *Gym.* 3 — 1614 Jefferson

ELWELL, FAYETTE HERBERT, B.A., Professor of Accounting. *St. H.* 418 — 2025 Chadbourne Ave

ELY, RICHARD THEODORE, LL.D., Ph.D., Professor of Economics. Chairman, Division of Social Studies. *St. H.* 308 — 205 Prospect Ave

ERICKSON, ERIC ALEXANDER, B.A., First Lieutenant, Field Artillery, U. S. A., Assistant Professor of Military Science and Tactics. *Armory* — 620 N. Lake

ERNST, ADOLPHINE BIANCA, Ph.D., Assistant Professor of German. *B. H.* 255 and *U. E. B.* 312 — 1311 Morris

[1]ERNST, FREDERIC ADOLPH, M.A., Assistant Professor of Romance Languages. *B. H.* 320

EVANS, JOSEPH SPRAGG, B.A., M.D., Professor of Clinical Medicine. *Clin. B.* — 524 N. Frances

EYSTER, JOHN AUGUSTINE ENGLISH, M.D., Professor of Physiology. *Sc. H.* 114 — 2006 Chadbourne Ave

[1]Fahlberg, Ernest David, B.A., Assistant Professor of Chemical Egineering. *C. E. B.* 213 1916 Jefferson

Fargo, John Merrill, M.S., Assistant Professor of Animal Husbandry. *A. H.* 202 1821 University Ave

Farrington, Edward Holyoke, M.S., Professor of Dairy Husbandry. *H. S. H.* 301 208 Lathrop

Finch, Vernor Clifford, Ph.D., Associate Professor of Geography. *Sc. H.* 301 College Hills

Fischer, Richard, Ph.D., Professor of Chemistry. *C. B.* 324 119 E. Johnson

Fish, Carl Russell, Ph.D., Professor of History. *Lib.* 123 244 Lake Lawn Pl

Fiske, George Converse, Ph.D., Associate Professor of Latin. *B. H.* 265 803 State

Fluke, Charles Lewis, Jr., M.S., Assistant Professor of Economic Entomology. *Econ. Ent. B.* 204 512 Wingra

Fowlkes, John Guy, Ph.D., Assistant Professor of Education. *B. H.* 121 1824 Vilas

Fred, Edwin Braun, Ph.D., Professor of Agricultural Bacteriology. *A. H.* 114 610 N. Frances

Frost, William Dodge, Ph.D., Professor of Agricultural Bacteriology. *A. H.* 311 1010 Grant

Fuller, James Garfield, B.S., Professor of Animal Husbandry. *A. H.* 208 1717 Summit Ave

Fuller, Joseph Vincent, Ph.D., Assistant Professor of History. *B. H.* 208 224 Virginia Terrace

Fuller, William John, B.A., Associate Professor of Structural Engineering, Milwaukee District, Extension Division. 542 *Jackson St.* 756-46th St., Milwaukee

Gardner, Edward Hall, M.A., Professor of English and Business Administration. *St. H.* 422 215 Forest

Gay, Lucy Maria, B.L., Assistant Professor of Romance Languages. *B. H.* 304 216 N. Pinckney

Geib, Warren Jacob, M.Agr., Assistant Professor of Soils, State Soils Laboratory. *S. B.* 202 1522 W. Washington Ave

Gerry, Eloise, Ph.D., Lecturer in Forest Products. *Old S. B.* 208 419 Sterling Pl

[1]Giese, William Frederick, M.A., Professor of Romance Languages. *B. H.* 307

Gilbert, Edward Martinus, Ph.D., Professor of Botany and Plant Pathology. *B. B.* 308 1724 Jefferson

Gillen, Charles Frederick, Ph.D., Assistant Professor of Romance Languages. *B. H.* 308 2115 Chadbourne Ave

Gillin, John Lewis, Ph.D., Professor of Sociology. *St. H.* 331 2211 Chamberlin Ave

Gilman, Stephen Warren, LL.B., Professor of Business Administration. *St. H.* 406 410 N. Livingston

[1]Gilmore, Eugene Allen, B.A., LL.B., Professor of Law.

Glaeser, Martin Gustave, B.A., Assistant Professor of Economics. *St. H.* 308 — R. D. 7

Glicksman, Harry, LL.B., Ph.D., Assistant Dean of the College of Letters and Science. Lecturer in English. *S. H.* 3 — 2024 Chamberlin Ave

Goodnight, Scott Holland, Ph.D., Dean of Men. Director of the Summer Session. Associate Professor of German. *S. H.* 22 — 2130 West Lawn Ave

Gordon, Edgar Bernard. Professor of Music and Chief of the Bureau of Community Development, Extension Division. *U. E. B.* 206 — 1631 Madison

Graber, Laurence Frederick, M.S., Professor of Agronomy. *Agron. B.* 31 — 619 Spooner

Graff, Marshall Conant, M.A., District Representative Wausau District, Extension Division. 217 *Third St.* — 632 McClelland St., Wausau

Graul, Edward John, M.S., Assistant Professor of Soils. *New S. B.* 302 — 8 Lathrop

[1]Greeley, Hugh Payne, B.A., M.D., Lecturer in Clinical Medicine. Lecturer in Post-Graduate Medical Instruction, Extension Division. 109 *Washington Ave* — 81 Cambridge Road

*Griffith, Ira Samuel, B.A., Professor of Industrial Education. *Ind. Arts Lab.* 227 — 1904 Jefferson

Grover, Arlene, B.L., Assistant Librarian. *Lib.* 220 — 1802 Monroe

[2]Guyer, Michael Frederick, Ph.D., Professor of Zoology. *B. B.* 253 — 138 Prospect Ave

Hadley, Frederick Brown, D.V.M., Professor of Veterinary Science. *A. H.* 203 — 2120 Monroe

Hall, Arnold Bennett, B.A., Professor of Political Science. Associate Professor of Law. *S. H.* 27 — 1814 Kendall Ave

Halpin, James Garfield, B.S., Professor of Poultry Husbandry. *A. C. B.* 218. — 2500 University Ave

Hamilton, William Albert, Ph.D., Lecturer in Mathematics. *N. H.* 208 — 130 Breese Terrace

Hart, Edwin Bret, B.S., Professor of Agricultural Chemistry. *A. C. B.* 123 — 302 Lathrop

Hart, Walter Wilson, B.A., Assistant Professor of Mathematics. *W. H. S.* 105 — R. D. 7

Hastings, Edwin George, M.S., Professor of Agricultural Bacteriology. *A. H.* 212 — 2111 Van Hise Ave

Hatch, Kirk Lester, B.S., Assistant Director of Agricultural Education. *A. H.* 104 — 302 Chamberlin Ave

Hawley, Lee Fred, Ph.D., Lecturer in Forest Products. *F. P. L.* 24 — 803 State

Hayes, John Barry, B.S., Assistant Professor of Poultry Husbandry. *A. C. B.* 218 — 303 Princeton Ave

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*Died April 30 1924.

HAZELTINE, MARY EMOGENE, Preceptor of the Library School. *Madison Free Lib.* 523 N. Carroll

H'DOUBLER, MARGARET NEWELL, B.A., Associate Professor of Physical Education. *Lathrop* 2020 Kendall Ave

HEAN, CLARENCE SCOTT, B.A., Librarian, College of Agriculture. *A. H. Lib.* 2017 Kendall Ave

HENDERSON, RUTH, B.S., Assistant Professor of Home Economics. *W. H. S.* 525 S. Warren

HENMON, VIVIAN ALLEN CHARLES, Ph.D., Director of the School of Education. Professor of Education. *B. H.* 123 18 Mendota Ct

HENRY, WILLIAM ARNON, Sc.D., D.Agric., Professor of Agriculture. *Emeritus*

HIBBARD, BENJAMIN HORACE, Ph.D., Professor of Agricultural Economics. *A. H.* 304 2235 Hollister Ave

HIESTAND, WILLIAM DIXON, M.A., Registrar. *B. H.* 158 423 Wisconsin Ave

[2]HILLSTROM, ELLEN, B.S., Assistant Professor of Home Economics. *H. E. B.* 403 425 Sterling Pl

HOHLFELD, ALEXANDER RUDOLPH, Ph.D., Professor of German. *B. H.* 253 124 Breese Terrace

HOLT, HARRIETTE GRACE, M.A., Assistant Professor of Mathematics. *U.E.B.* 312-314 14 Prospect Ave

HOOL, GEORGE ALBERT, B.S., Professor of Civil and Structural Engineering. *U. E. B.* 308 College Hills

HOPKINS, ANDREW WINKLE, B.L., Professor of Agricultural Journalism. Agricultural Editor. *A. H.* 118 College Hills

HOUGEN, OLAF ANDREW, Ch.E., Assistant Professor of Chemical Engineering. *C. E. B.* 103 2247 Rowley Ave

HOYT, MRS. EDITH EVANS, M.A., Assistant Professor of Education. *U. E. B.* 211 24 Lathrop

HUBBARD, FRANK GAYLORD, Ph.D., Professor of English. *B. H.* 354 141 W. Gilman

HUBERT, ERNEST EVERETT, Ph.D., Lecturer in Forest Products. *Old S. B.* 104 1131 Bowen Ct

HULCE, RAY STILLMAN, M.S., Associate Professor of Animal Husbandry. *A. H.* 302 316 Breese Terrace

HULL, CLARK LEONARD, Ph.D., Associate Professor of Psychology. *B. H.* 18 2305 Rowley Ave

HUMPHREY, CLARENCE JOHN, Ph.D., Lecturer in Forest Products. *Old S. B.* 104 1714 Adams

HUMPHREY, GEORGE COLVIN, B.S., Professor of Animal Husbanry. *A. H.* 208B 438 University Farm

HUNT, ANNA ISABEL, M.A., Mistress of Chadbourne Hall. *Chadbourne* and *Lathrop* 102 Chadbourne

HUNT, GEORGE MCMONIES, B.S., Lecturer in Forest Products. *F. P. L.* 2121 Chamberlin Ave

HYDE, GRANT MILNOR, M.A., Associate Professor of Journalism. Editor of the University Press Bureau. *S. H.* 30 and 34 — 107 Roby Road

HYLAND, PATRICK HENRY, M.E., Associate Professor of Machine Design. *E. B.* 227 — 2115 Jefferson

ILTIS, LEON LEONARD, B.M., Assistant Professor of Music. *M. H.* 24 — 140 Breese Terrace

INGERSOLL, LEONARD ROSE, Ph.D., Associate Professor of Physics. *St. H.* 14 — 1933 West Lawn Ave

IVORY, EDWARD P., B.S., Lecturer in Forest Products. *F. P. L.* 3 — 321 N. Brooks

[5]JACKSON, REGINALD HENRY, Lecturer in Surgery. *Jackson Clinic* — 415 N. Carroll

JAMES, JOHN AMBROSE, B.S., Assistant Dean of the College of Agriculture. Professor of Agricultural Education. *A. H.* 108A — 2210 West Lawn Ave

JAMISON, CHARLES LASELLE, B.A., Assistant Professor of Business Administration. *St. H.* 423 — 2234 Monroe

JANSKY, CYRIL METHODIUS, B.A., B.S., Professor of Electrical Engineering. *U. E. B.* 310 — 2117 Jefferson

JASTROW, JOSEPH, Ph.D., Professor of Psychology. *B. H.* 12 — 237 Langdon

JENSEN, EVELYN HARRIETT, B.S., Assistant Professor of Home Economics. *U. E. B.* 209 — 312 Breese Terrace

[1]JEROME, HARRY, Ph.D., Assistant Professor of Economics. *St. H.* 313 — Nakoma

JOHN, HENRY WALTER, B.A., Assistant Professor of Business Administration, Milwaukee District, Extension Division. 471 *Van Buren St.* — 863-37th St., Milwaukee

JOHNSON, ALBERT SIGFRED, B.A., Comptroller. Lecturer in Accounting. *Adm. B.* — 227 Clifford Ct

JOHNSON, E. MARION, B.A., Assistant Professor of Journalism. *S. H.* 8 — 435 N. Lake

JOHNSON, GERTRUDE ELIZABETH, B.A., Assistant Professor of Speech. *B. H.* 453 — 2020 Kendall Ave

JOHNSON, JAMES, Ph.D., Professor of Horticulture. *H. B.* 108 — 2005 Madison

[1]JOHNSON, LAURA BUTLER, M.A., Assistant Professor of Romance Languages. *W. H. S.* 116 — 111 E. Gorham

JONES, EDWARD RICHARD, M.S., Professor of Agricultural Engineering. *A. E. B.* 109A — 102 Roby Road

JONES, LEWIS RALPH, Ph.D., Professor of Plant Pathology. *H. B.* 207 — 146 Prospect Ave

JONES, MRS. NELLIE KEDZIE, M.S., State Leader of Home Economics Extension. *H. E. B.* 223 — 320 Lathrop

JONES, THOMAS EDWARD, B.A., B.P.E., Professor of Physical Education. *Gym.* 1A — 809 Harrison

JONES, THOMAS LLOYD, B.S., High School Visitor, Associate Professor of Education. *B. H.* 120 — 1906 Madison

JOTTER, ERNST VICTOR, M.S., Lecturer in Forest Products. *F. P. L.* 121 N. Orchard

JUDAY, CHANCEY, M.A., Lecturer in Zoology. *B. B.* 460 35 Lathrop

KAHLENBERG, LOUIS, Ph.D., Professor of Chemistry. *C. B.* 100 234 Lathrop

[5]KAY, HARRY M., M.D., Lecturer in Clinical Medicine. *Clin. B.* 803 State

KEITT, GEORGE WANNAMAKER, Ph.D., Professor of Plant Pathology. *H. B.* 209 803 State

KELLY, FREDERICK THOMAS, Ph.D., Assistant Professor of Semitic Languages and Hellenistic Greek. *B. H.* 67 2019 Monroe

KELSO, LESLIE ERSKINE ALLAN, B.S., Assistant Professor of Electrical Engineering. *Elec. Lab.* 205 2126 Rowley Ave

KEMERER, GEORGE IRVING, Ph.D., Assistant Professor of Chemistry. *C. B.* 256 916 Van Buren

KIEKHOFER, WILLIAM HENRY, Ph.D., Professor of Economics. *St. H.* 308 1919 Arlington Pl

KINNE, WILLIAM SPAULDING, B.S., Professor of Structural Engineering. Consulting Structural Engineer, Physical Plant. *E. B.* 311 2105 West Lawn Ave

KLEINHEINZ, FRANK, Assistant Professor of Animal Husbandry. *Sheep Barn* 208 Breese Terrace

KNAPLUND, PAUL, Ph.D., Assistant Professor of History. *B. H.* 208 803 State

KOEHLER, ARTHUR, B.S., Lecturer in Forest Products. *Old S. B.* 208 1819 Adams

KOLB, JOHN HARRISON, Ph.D., Associate Professor of Agricultural Economics. *A. H.* 318 Nakoma

KOMMERS, JESSE BENJAMIN, M.E., Associate Professor of Mathematics. *E. B.* 115 1920 Regent

KOWALKE, OTTO LOUIS, Ch.E., Professor of Chemical Engineering. *C. E. B.* 104 2012 Jefferson

KRAUS, EZRA JACOB, Ph.D., Professor of Applied Botany *B. B.* 13 803 State

KRAUSKOPF, FRANCIS CRAIG, Ph.D., Associate Professor of Chemistry. *C. B.* 159 1915 West Lawn Ave

KREMERS, EDWARD, Ph.D., Sc.D., Ph.M., Director of the Course in Pharmacy. Professor of Pharmaceutical Chemistry. Director of the Pnarmaceutical Experiment Station. *C. B.* 303 304 Princeton Ave.

LAIRD, ARTHUR GORDON, Ph.D., Acting Dean of the Graduate School (second semester). Professor of Greek. *B. H.* 263 130 Prospect Ave

LAMPERT, LESTER LELAND, Major, Infantry, U. S. A., First Assistant Commandant. Assistant Professor of Military Science and Tactics. *Armory* 2 2238 Hollister Ave

LARSON, GUSTUS LUDWIG, M.E., Professor of Steam and Gas Engineering. Consulting Engineer, Physical Plant. *E. B.* 223 College Hills

LATHROP, HENRY BURROWES, B.A., Professor of English. *B. H.* 357 124 W. Wilson

LEAKE, CHAUNCEY DEPEW, Ph. D., Assistant Professor of Pharmacology. *Sc. H.* 111 225 Clifford Ct

LEBERT, EUGENE M., M.A., Lecturer in Romance Languages. *B. H.* 307 405 N. Frances

LEHMANN, SARAH KATHERINE, M.A., Assistant Professor of English, Milwaukee District, Extension Division. 471 *Van Buren St.* 302 Church St., Wauwatosa

LEITH, BENJAMIN DONALD, B.S., Associate Professor of Agronomy. Superintendent of Hill Farms. *Agron B.* 33 2545 Harper

LEITH, CHARLES KENNETH, Ph.D., Professor of Geology. *Sc. H.* 214 Moraine, Old Sauk Road

LENHER, VICTOR, *Ph.D.*, Professor of Chemistry. *C. B.* 203 1718 Summit Ave

LEONARD, STERLING ANDRUS, M.A., Assistant Professor of English. *B. H.* 355 and *W. H. S.* 2230 Van Hise Ave

LEONARD, WILLIAM ELLERY, Ph.D., Associate Professor of English. *B. H.* 368 433 N. Murray

LESCOHIER, DON DIVANCE, Ph.D., Associate Professor of Economics. *St. H.* 316 2117 Chadbourne Ave

LESTER, CLARENCE BROWN, Director of the Library School. *Capitol* 1931 Rowley Ave

LIGHTY, WILLIAM HENRY, Ph.B., Secretary, Correspondence Study Department, Extension Division. *U. E. B.* 105 R. D. 7

LIPARI, ANGELO, M.A., D.Litt., Assistant Professor of Romance Languages. *B. H.* 321 803 State

[5]LITTLE, MABEL COLLETTE, **B.S., Director of Halls and Commons.** Associate Professor of Institutional Administration. *Chadbourne* 425 Sterling Pl

LOBECK, ARMIN KOHL, Ph.D., Assistant Professor of Geology. *Sc. H.* 311 1635 Madison

LOCKWOOD, LOUISE, B.M., Assistant Professor of Music. *M. H.* 39 320 Lathrop

LOEVENHART, ARTHUR SOLOMAN, **M.D., Professor of Pharmacology and Toxicology.** *Sc. H.* 106 2129 Keyes Ave

LORENZ, WILLIAM FREDERICK, M.D., Professor of Neuro-Psychiatry. *Clin. B.* 115 E. Gilman

LOWMAN, GUY SUMNER, B.Di., B.P.E., Professor of Physical Education. Director of the Men's Gymnasium. *Gym.* 1b 2115 Bascom

LUTHER, ERNEST LEONARD, B.A., B.S., Superintendent Farmers' Institutes. Supervisor of Extension Courses and Schools. *A. H.* 115 1933 Keyes Ave

LYON, ALBERT EDDY, M.A., Assistant Professor of Romance Languages. *B. H.* 321 2121 Chadbourne Ave

McCaffery, Richard Stanislaus, E.M., Professor of Mining and Metallurgy. *E. B.* 213 2151 West Lawn Ave

McGilvary, Evander Bradley, Ph.D., Professor of Philosophy. *B. H.* 107 1920 Arlington Pl

MacGregor, Ford Herbert, M.A., Assistant Professor of Political Science and Chief, Municipal Information Bureau, Extension Division. *U. E. B.* 203 115 Spooner

McGuire, Peter Stephen, Ph.D., Assistant Professor of History, Milwaukee District, Extension Division. 471 *Van Buren St.* 726 Marshall St., Milwaukee

[6]McMurray, Karl Franklin, M.A., C.P.A., Associate Professor of Business Administration. *St. H.* 417 R. D. 6

McNall, Preston Essex, M.S., Associate Professor of Agricultural Economics. *A. H.* 301 1419 W. Washington Ave

McNeel Wakelin, B.A., Assistant Professor of Agricultural Extension. (Assistant State Leader of Boys' and Girls' Agricultural Clubs). *A. H.* 115 Nakoma

Macklin, Theodore, Ph.D., Professor of Agricultural Economics. *A. H.* 307 2242 Eton Ridge

[1]Manchester, Frederick A., Ph.D., Associate Professor of English. *B. H.* 354 130½ Lathrop

Manning, Hazel, M.S., Assistant Professor of Home Economics. *H. E. B.* 222 1827 Rowley Ave

March, Herman William, Ph.D., Associate Professor of Mathematics. *N. H.* 206 1825 Summit Ave

Markwardt, Lorraine Joseph, C. E., Lecturer in Forest Products. *Timber Mechanics Lab.* 1 12 Lathrop

Marlatt, Abby Lillian, M.S., Director of the Course in Home Economics. Professor of Home Economics. *H. E. B.* 119 612 Howard Pl

Marshall, William Stanley, Ph.D., Associate Professor of Entomology. *B. B.* 457 139 E. Gilman

Mason, Max, Ph.D., Professor of Mathematical Physics. *St. H.* 11 1902 Arlington Pl

Mathews, Joseph Howard, Ph.D., Director of the Courses in Chemistry and Chemistry-Commerce. Professor of Chemistry. *C. B.* 153 128 Lathrop

Maurer, Edward Rose, B.C.E., Professor of Mechanics. *E. B.* 113 167 N. Prospect Ave

Mead, Daniel Webster, C.E., Professor of Hydraulic and Sanitary Engineering. *E. B.* 218 120 W. Gorham

Mead, Warren Judson, M.A., Professor of Geology. *Sc. H.* 201 2113 Adams

Meanwell, Walter E., M.D., Dr.P.H., Professor of Physical Education. *Clin B.* 5 1111 W. Johnson

Meek, Walter Joseph, Ph.D., Assistant Dean of the Medical School. Professor of Physiology. *Sc. H.* 123 2015 Chadbourne Ave.

MELOCHE, GLADYS LOUISE, M. S., Extension Specialist in Home Economics. *H. E. B.* 223 138 Lathrop

MENDENHALL, CHARLES ELWOOD, Ph.D., Professor of Physics. *St. H.* 10 510 N. Carroll

MENDENHALL, MRS. DOROTHY REED, M.D., Lecturer in Home Economics. *H. E. B.* 510 N. Carroll

MERRIMAN, CURTIS, Ph. D., Assistant Professor of Education. *B. H.* 13 1936 Commonwealth Ave

MEYERS, ALVIN, E. E., Assistant Professor of Electrical Engineering. *E. B.* 203 1617 Regent

MICHELL, ROBERT BELL, Ph.D., Assistant Professor of Romance Languages. *B. H.* 320 2323 Hollister Ave

MIDDLETON, WILLIAM SHAINLINE, M.D., Associate Professor of Clinical Medicine. *Clin. B.* 8 762 Langdon

MILLAR, ADAM VAUSE, M.S., Assistant Dean, College of Engineering. Professor of Drawing and Descriptive Geometry. *E. B.* 208 1011 Grant

MILLER, ERIC REXFORD, M.S., Lecturer in Meteorology. Meteorologist, U. S. Weather Bureau. *N. H.* 409 2125 Van Hise Ave

MILLER, HARRY LLOYD, B.A., Principal of the Wisconsin High School. Associate Professor of Education. *W. H. S.* 110 504 N. Carroll

MILLER, SIDNEY LINCOLN, Ph. D., Assistant Professor of Economics. *St. H.* 314 630 Sprague

MILLER, WILLIAM SNOW, M.D., Sc.D., Professor of Anatomy. *Sc. H.* 307 2001 Jefferson

MILLS, CHARLES HENRY, D.Mus., F.R.C.O., Director of the School of Music. Professor of Music. *M. H.* 21 2119 Jefferson

MILWARD, JAMES GARFIELD, M.S., Professor of Horticulture. *H. B.* 118 Nakoma

MOORE, JAMES GARFIELD, M.S., M.H., Professor of Horticulture. *H. B.* 106 2125 West Lawn Ave

MOORE, RANSOM ASA, Professor of Agronomy. *Agron. B.* 28 38 Virginia Terrace

MORBECK, GEORGE C., M.F., Lecturer in Forest Products. *F. P. L.* 602 Edgewood

MORGAN, BAYARD QUINCY, Ph.D., Associate Professor of German. *B. H.* 253 1522 Chandler

MORPHY, EDSON WILFRED, Assistant Professor of Music. Band Leader. *M. H.* 3 1621 Jefferson

MORRIS, SARAH ISABELLE, M.D., Assistant Professor of Clinical Medicine. *Clin. B.* 12 1118 W. Johnson

MORRISON, FRANK BARRON, B.S., Assistant Director of the Agricultural Experiment Station. Professor of Animal Husbandry. *A. H.* 101 1937 Arlington Pl

MORTIMER, GEORGE BYRON, B.S., Associate Professor of Agronomy. *Agron. B.* 35 803 State

MOWRY, WILLIAM ATWOOD, M.D., Assistant Professor of Clinical Medicine. *Clin. B.* 1900 Arlington Pl

MURRAY, REID FRED, B.S., Professor of Animal Husbandry (Extension Specialist.) *A. H.* 22 140 Langdon

MUSBACH, FRED LUDWIG, B.S., Associate Professor of Soils. In charge of Marshfield Branch Experiment Station. *Deming Bldg.* 409 S. Cherry St., Marshfield

NARDIN, FRANCES LOUISE, Ph.D., Dean of Women. *Lathrop* 100 612 Howard Pl

NEFF, ADOLPH ANTON, B.S., Assistant Professor of Machine Design. *E. B.* 226 Nakoma

NEWLIN, J. A., B.S., Lecturer in Forest Products. *Timber Mechanics Lab.* 2240 Keyes Ave

O'CONNOR, JOHN PEASLEE, Ph.B., District, Representative, Superior District, Extension Division. *Board of Trade Bldg.* 330 2346 Ogden Ave., Superior

OESTERLE, JOSEPH FRANCIS, B.A., Research Assistant in Metallurgy. *Mining Lab.* 2411 Monroe

OGG, FREDERIC AUSTIN, Ph.D., Professor of Political Science. *S. H.* 23 1715 Kendall Ave

OLSON, JULIUS EMIL, B.L., Professor of Scandinavian Languages and Literature. *B. H.* 109 1909 Adams

[1]O'NEILL, JAMES MILTON, B.A., Professor of Rhetoric and Oratory.

ORTEGA, JOAQUIN, M.A., Associate Professor of Romance Languages. *B. H.* 321 803 State

ORTH, HERBERT DENNY, B.S., Associate Professor of Drawing and Descriptive Geometry. *E. B.* 404 Nakoma

O'SHEA, MICHAEL VINCENT, B.L., Professor of Education. *B. H.* 108 529 N. Pinckney

OTTO, MAX CARL, Ph.D., Professor of Philosophy. *B. H.* 104 1155 Edgewood Ave

OVERTON, JAMES BERTRAM, Ph..D, Professor of Plant Physiology. *B. B.* 54 512 Wisconsin Ave

OWEN, EDWARD THOMAS, Ph.D., Professor of French and Linguistics. *Emeritus* 624 State

OWEN, RAY SPRAGUE, B.S., Associate Professor of Topographic Engineering. *E. B.* 104 1806 Kendall Ave

PAGE, WILLIAM HERBERT, B.A., LL.M., S.J.D., Professor of Law. *L. B.* 35 515 N. Carroll

PARKER, FLETCHER ANDREW, Professor of Music. *Emeritus* 14 W. Gilman

[3]PARSONS, HELEN TRACY, M.S., Assistant Professor of Home Economics. *H. E. B.* 323 415 Sterling Pl

PAXSON, FREDERIC LOGAN, Ph.D., Professor of History. *Lib.* 123 2122 Van Hise Ave

PEARSE, ARTHUR SPERRY, Ph.D., Professor of Zoology. *B. B.* 151 2240 Rowley Ave

PERLMAN, SELIG, Ph.D., Assistant Professor of Economics. *St. H.* 318 — 12 S. Orchard

PETERSON, WILLIAM HAROLD, Ph.D., Associate Professor of Agricultural Chemistry. *A. C. B.* 135 — 304 Princeton Ave

PHILLIPS, JAMES DAVID, B.S., Business Manager. *Adm. B.* — 1925 West Lawn Ave

PITMAN, ANNIE MARIA, Ph.D., Assistant Professor of English, Greek and Latin. *U. E. B.* 212 — 414 N. Henry

POTTER, PITMAN BENJAMIN, Ph.D., Associate Professor of Political Science. *S. H.* 27 — 117 Lathrop

POWELL, JOHN WALKER, M.A., D.D., District Superintendent, Milwaukee District, Extension Division. *471 Van Buren St.* — 718 Newhall St., Milwaukee

PRICE, JOHN REESE, B.S., Associate Professor of Electrical Engineering. Consulting Electrical Engineer, Physical Plant. *Elec. Lab.* 101 — 1818 Chadbourne Ave

PULVER, HARRY E., B.S., Associate Professor of Civil and Structural Engineering. *U. E. B.* 308 — 310 Prospect Ave

PYRE, JAMES FRANCIS AUGUSTIN, Ph. D., Professor of English. *B. H.* 367 — R. D. 7

RAWLING, FRANCIS G., Sc.D., Lecturer in Forest Products. *F. P. L.* — 2241 Keyes Ave

READ, JAMES BURTON, B.A., LL.B., Assistant Professor of Business Administration. *U. E. B.* 213 — 302 Vista Road

REBER, LOUIS EHRHART, M.S., Sc.D., Dean of the University Extension Division. *U. E. B.* 108 — 5 E. Wilson

[3], [6]REED, FRANK OTIS, Ph.D., Associate Professor of Romance Languages. *B. H.* 306 — 1910 Jefferson

REID, AGNES WHITE, Superintendent of the University Hospitals. Assistant Professor of Nursing. *Bradley Mem. Hosp.* 101 — 437 N. Warren

REINHART, STANLEY ERIC, Captain, Field Artillery, U. S. A. Second Assistant Commandant. Assistant Professor of Military Science and Tactics. *Armory* 2 — 2223 Rugby Row

REITZ, THOMAS, B.S., M.D., Physician, Public Health Institute. *Reliance Bldg.* — Chicago, Ill.

RICE, WILLIAM GORHAM, JR., M.A., S.J.D., Assistant Professor of Law. *L. B.* — 815 Clymer Pl

RICHARD, GRIFFITH, B.S., Assistant Professor of Soils. *New S. B.* 101 — 1607 Adams

RICHARDS, HARRY SANGER, Ph.B., LL.B., LL.D., Dean of the Law School. Professor of Law. *L. B.* — 14 Prospect Ave

RICHTMANN, WILLIAM OSCAR, Ph.D., Assistant Professor of Pharmacognosy. Pharmacognosist, Pharmaceutical Experiment Station. *C. B.* 459 — 1709 Adams

RILEY, MILES C., LL.B., Lecturer in Agricultural Economics. *A. H.* 304 — 2115 Adams

RITTER, GEORGE J., Ph.D., Lecturer in Forest Products. *F. P. L.* 23 — 310 Vista Road

ROARK, R. RAYMOND JEFFERSON, M.S., Assistant Professor of Mechanics. *E. B.* 114 — 1707 Madison

[5]ROBBINS, GEORGE HIRAM, B.S., M.D., Lecturer in Clinical Medicine. *Clin. B.* — College Hills

ROBERTS, RAY HARLAND, M.S., Associate Professor of Horticulture. *H.B.* 103 — 2215 Hollister Ave

ROE, FREDERICK WILLIAM, Ph.D., Litt.D., Junior Dean, College of Letters and Science. Associate Professor of English. *S. H.* 3 — 2015 Van Hise Ave

ROEBUCK, JOHN RANSOM, Ph.D., Associate Professor of Physics. *St. H.* 3 — 2210 Hollister Ave

ROEDDER, EDWIN CARL LOTHAR CLEMENS, Ph.D., Associate Professor of Germanic Philology. *B. H.* 257 — 38 Breese Terrace

ROGERS, HARRY LOVEJOY, JR., First Lieutenant, Infantry U. S. A., Assistant Professor of Military Science and Tactics. *Armory* 3 — 2370 West Lawn Ave

ROOD, JAMES THERON, Ph.D., Professor of Electrical Engineering. *E. B.* 204 — 316 Virginia Terrace

ROOT, WINFRED TREXLER, Ph.D., Professor of History. *B. H.* 210 — 2122 Chadbourne Ave

ROSENBERRY, MARVIN B., LL.B., Lecturer in Law. *Capitol* — 1717 Kendall Ave

ROSS, EDWARD ALSWORTH, Ph.D., LL.D., Professor of Sociology. *St. H.* 336 — 1941 Arlington Pl

ROSTOVTZEFF, MICHAEL I., Ph.D., Professor of History. *B. H.* 219 — 419 Sterling Pl

ROWLANDS, WALTER AUGUSTUS, B.S., Extension Specialist in Agricultural Engineering (Land Clearing) *A. E. B.* 204 — 318 Norris Ct.

RUE, JOHN DAVISON, M.A., Lecturer in Forest Products. *F. P. L.* — 1702 Madison

RUNDELL, OLIVER SAMUEL, LL.B., Professor of Law. *L. B.* — 22 Prospect Ave

RUSSELL, HARRY LUMAN, Ph.D., Dean of the College of Agriculture. Director of the Agricultural Experiment Station and Agricultural Extension. *A. H.* 101 — University Farm

RYAN, JOHN J., B.A., Associate Professor of Physical Education. *Gym.* 1E — 803 State

SAMMIS, JOHN LANGLEY, Ph.D., Associate Professor of Dairy Husbandry. *H. S. H.* 303A — 234 Breese Terrace

SANBORN, JOHN BELL, Ph.D., Lecturer in Law. *L. B.* — 2115 Van Hise Ave

[5]SASMAN, LOUIS M., B.S., Teacher Trainer in Vocational Agriculture. *A. H.* 105 — 1305 University Ave

SCHLATTER, EDWARD BUNKER, Ph.D., Associate Professor of Romance Languages. *U. E. B.* 211 — 2259 Regent

SCHLATTER, FRED E., Ph.B., Assistant Professor of Physical Education. *Gym.* 42 2402 Commonwealth Ave

SCHUETTE, HENRY AUGUST, Ph.D., Assistant Professor of Chemistry. *C. B.* 317 R. D. 1

SCOTT, ALMERE, B.A., Secretary, Department of Debating and Public Discussion, Extension Division. *U. E. B.* 104 1619 Regent

SCOTT, WILLIAM AMASA, Ph.D., LL.D., Director of the Course in Commerce. Professor of Economics. *St. H.* 406 2002 Jefferson

SELLERY, GEORGE CLARKE, Ph.D., LL.D., Dean of the College of Letters and Science. Professor of History. *S. H.* 2 2021 Van Hise Ave

SEVRINGHAUS, ELMER LOUIS, M.A., M.D., Assistant Professor of Physiological Chemistry. *Sc.H.* 9 2213 West Lawn Ave

SHARP, FRANK CHAPMAN, Ph.D., Lecturer of Philosophy.

SHERRARD, EARL CHARLES, Ph.D., Lecturer in Forest Products. *F. P. L.* 24 2245 Hollister Ave

SHINE, MARY LAMBERT, Ph.D., Research Associate in Land Economics. *St. H.* 310 417 Sterling Pl

SHOCKLEY, FRANK WILLIAM, B.A., Assistant to the Dean and Office Manager, Extension Division. *U. E. B.* 108 443 West Gilman

SHOREY, EDWIN ROY, M.E., Assistant Professor of Mining and Metallurgy. *E. B.* 212 1443 Chandler

SHOWERMAN, GRANT, Ph.D., Doctor of the University of Padua, Professor of Latin. *B. H.* 267 410 N. Butler

SIMPSON, HERBERT DOWNS, M.A., Research Associate in Land Economics. *St. H.* 301A Nakoma

SKINNER, ERNEST BROWN, Ph.D., Professor of Mathematics. *N. H.* 202 210 Lathrop

SKINNER, GLENN SEYMOUR, Ph.D., Assistant Professor of Chemistry. *C. B.* 323 803 State

*SLAUGHTER, MOSES STEPHEN, Ph.D., Professor of Latin *B. H.* 267 633 N. Frances

*Died, December 29, 1923.

[3]SLICHTER, CHARLES SUMNER, Sc.D., Dean of the Graduate School. Professor of Applied Mathematics. *B. H.* 157 636 N. Frances

SMITH, CHARLES AUGUSTUS, M.A., Secretary of the Faculty. *B. H.* 151 1812 Keyes Ave

SMITH, CHARLES FORSTER, Ph.D., LL.D., Professor of Greek and Classical Philology. *Emeritus* 1121 University Ave

[4]SMITH, GILBERT MORGAN, Ph.D., Associate Professor of Botany. *B. B.* 109 113 Spooner

SMITH, HOWARD LESLIE, B.A., LL.B., Jackson Professor of Law. *L. B.* 1632 Jefferson

SMITH, HUGH ALISON, M.A., Professor of Romance Languages. *B. H.* 309 15 Prospect Ave

SMITH, LEONARD S., C.E., Professor of Highway Engineering and City Planning. *E. B.* 215 34 Virginia Terrace

SMITH, WALTER MCMYNN, B.A., Librarian. *Lib.* 220 127 Langdon

SNOW, BENJAMIN WARNER, Ph.D., Professor of Physics. *St. H.* 119 612 Howard Pl

SOMMER, HUGO HENRY, Ph.D., Assistant Professor of Husbandry. *Dairy Annex* 101A 116 S. Randall Ave

SPIETH, BENJAMIN, M.E., Assistant Professor of Steam and Gas Engineering. *E. B.* 73 107 Spooner

STEBBINS, JOEL, Ph.D., Sc.D., Director of the Washburn Observatory. Professor of Astronomy. Observatory Hill

STEENBOCK, HARRY, Ph.D., Professor of Agricultural Chemistry. *A. C. B.* 125 2117 West Lawn Ave

STEPHENSON, CARL, Ph.D., Assistant Professor of History *B. H.* 218 2322 Rugby Row

STERLING, SUSAN ADELAIDE, M.L., Assistant Professor of German. *Emeritus* 612 Howard Pl

STEVE, WILLIAM FREDERICK, M.A., Assistant Professor of Physics. *St. H.* 212 1216 W. Johnson

STEWART, HAROLD WILSON, B.S., Assistant Professor of Soils. *New S. B.* 303 2010 Monroe

STILLMAN, GLADYS SARAH, B.S., Extension Specialist in Home Economics. *H. E. B.* 223 425 Sterling Pl

STONE, ALDEN LESCOMBE, Assistant Professor of Agronomy. *Agron. B.* 29 2217 Rowley Ave.

STOVALL, WILLIAM DAVIDSON, M.D., Director and Bacteriologist, State Laboratory of Hygiene. Associate Professor of Hygiene. *S. H.* 44 1109 W. Johnson

STROWD, WALLACE HEADEN, Ph.D., Lecturer in Agricultural Chemistry. *A. C. B.* 206 2125 Chadbourne Ave.

SULLIVAN, WALTER EDWARD, Ph.D., Assistant Professor of Anatomy. *Sc. H.* 405 403 N. Brearly

SUMNER, WILLIAM ALLISON, B.S., Associate Professor of Agricultural Journalism. *A. H.* 116 2253 West Lawn Ave

SUTHERLAND, EDWIN MALCOLM, (Second Lieutenant Infantry U. S. A.) Assistant Professor of Military Science and Tactics. *Armory* 3 2021 University Ave

SWANSON, ARTHUR E., Ph.D., Professor of Business Administration, Extension Division. *U. E. B.* 215. 1545 First National Bank Bldg., Chicago, Ill.

SWENEHART, JOHN HENRY, B.S., Professor of Agricultural Engineering (Land Clearing) *A. E. B.* 204 318 Norris Ct.

SWINNEY, EDWARD EARLE, B.A., B.M., Assistant Professor of Music. *M. H.* 27 2313 Rowley Ave

TAYLOR, WARNER, M.A., Associate Professor of English. *B. H.* 363 619 N. Frances

TERRY, EARLE MELVIN, Ph.D., Associate Professor of Physics. *St. H.* 5 — 1719 Chadbourne Ave

TETREAU, ELEAZER, M.A., Lecturer in Agricultural Economics. *A. H.* 318 — 112 S. Orchard

TIEMANN, HARRY DONALD, M.E., M.F., Lecturer in Forest Products. *F. P. L.* 14 — 135 Prospect Ave.

TIFFANY, E. M., M.S., Assistant Professor of Agricultural Education. *A. H.* 105 — 930 Emerald

[5]TORMEY, THOMAS WILLIAM, B.S., M.D., Lecturer in Surgery. *16 N. Carroll* — 303 N. Carroll

TOTTINGHAM, WILLIAM EDWARD, Ph.D., Associate Professor of Agricultural Chemistry. *A. C. B.* 3 — 2206 West Lawn Ave

TRILLING, BLANCHE MATHILDE, B.A., Professor of Physical Education. Director of the Women's Gymnasium. *Lathrop* — 612 Howard Pl

TRUAX, THOMAS ROY, M.F., Lecturer in Forest Products. *New S. B.* 7 — Nakoma

TRUOG, EMIL, M.S., Professor of Soils. *S. B.* 104D — 803 State

TURNEAURE, FREDERICK EUGENE, C.E., Dean of the College of Engineering. *E. B.* 111 — 166 Prospect Ave

TWENHOFEL, WILLIAM HENRY, Ph.D., Professor of Geology. *Sc. H.* 227 — Lake Forest, R. D. 6

UHL, WILLIS LEMON, Ph.D., Associate Professor of Education. *B. H.* 121 — 1816 Vilas

ULLSPERGER, HERMAN WENZL, B.S., Assistant Professor of Soils. *S. B.* — Sturgeon Bay

UPSON, ARTHUR T., B.S., Lecturer in Forest Products. *F. P. L.* 13 — 304 Breese Terrace

VAN HAGAN, LESLIE FLANDERS, C.E., Professor of Railway Engineering. *E. B.* 220 — 2105 Madison

VAN VALZAH, ROBERT, M.D., Professor of Clinical Medicine. *Clin. B.* 7 — 2024 Chadbourne Ave

[3]VAN VLECK, EDWARD B., Ph.D., LL.D., D.M. and Phys., Sc.D., Professor of Mathematics. *N. H.* 302 — 519 N. Pinckney

VARNUM, WILLIAM HARRISON, B.P., Associate Professor of Applied Arts. *Ind. Arts Lab.* 229 — 207 Forest

VAUGHN, RICHARD ENGLISH, M.S., Associate Professor of Plant Pathology. *H. B.* 206 — Nakoma Road, R. D. 6

VOLK, FREDERICK EUGENE, B.A., B.S., Librarian of the College of Engineering. *E. B.* 109 — Mandan Crescent, Nakoma

VOSS, ERNEST KARL JOHAN HEINRICH, Ph.D., Professor of Germanic Philology. *B. H.* 257 — 175 Virginia Terrace

WAGNER, GEORGE, M.A., Associate Professor of Zoology. *B. B.* 73 — 1901 Jefferson

WALTON, JAMES HENRI, Ph.D., Professor of Chemistry. *C. B.* 103 — 2152 West Lawn Ave

WARD, CLAYTON NORMAN, M.S., Assistant Professor of Hydraulic Engineering. *Hyd. Lab.* 3 — 513 Randall Ave

WATSON, JAMES WEBSTER, B.S., Associate Professor of Electrical Engineering. *E. B.* 202 — 2116 Monroe

WATTS, OLIVER PATTERSON, Ph.D., Associate Professor of Chemical Engineering. *C. E. B.* 204 — 114 Spooner

WEAVER, ANDREW THOMAS, Ph.D., Associate Professor of Speech. *B. H.* 204 — 1911 Keyes Ave

WEAVER, WARREN, Ph.D., Assistant Professor of Mathematics. *N. H.* 206 — 1852 Summit Ave

WEBER, WALLACE W., M.S., Lecturer in Forest Products. *Old S. B.* 205 — 113 N. Orchard

WEHRWEIN, GEORGE SIMON, Ph.D., Research Associate in Land Economics. *St. H.* 310 — 1515 Monroe

WESSON, CYNTHIA M., M.A., Assistant Professor of Physical Education. *Lathrop* — 621 N. Henry

WEST, ROBERT WILLIAM, M.A., Assistant Professor of Speech. *B. H.* 54 — 1325 Randall Ct

[3]WHITBECK, RAY HUGHES, B.A., Professor of Geography. *Sc. H.* 314 — 200 Prospect Ave

WHITE, EDGAR F., M.F., Lecturer in Forest Products. *F. P. L.* 7 — 20 Lathrop

[5]WHITING, ALBERT LEMUEL, Ph.D., Associate Professor of Agricultural Bacteriolgy. *A. H.* — 803 State

WHITSON, ANDREW ROBISON, B.S., Professor of Soils. *New S. B.* 204 — 301 Forest

WICKHEM, JOHN DUNNE, B.A., LL.B., Associate Professor of Law. *L. B.* — 111 N. Spooner

WILLIAMSON, ROBERT C., Ph.D., Assistant Professor of Physics. *St. H.* 43 — 2237 Hollister Ave

WILSON, HARLEY FROST, M.S., Professor of Economic Entomology. *Econ. Ent. B.* — 1815 Jefferson

WINCHELL, ALEXANDER NEWTON, M.S., Sc.D., Professor of Geology. *Sc. H.* 215 — 200 Prospect Ave

WINES, WALTER ENOCH, Assistant Professor of Mechanical Engineering. *U. E. B.* 305 — 2517 E. Johnson

WINSLOW, CARLILE PATTERSON, Ph.B., Director of the Forest Products Laboratory. *F. P. L.* 4 — 803 State

WITHEY, MORTON OWEN, C.E., Professor of Mechanics. *E. B.*, 66 — 1921 West Lawn Ave

WITTE, EDWIN EMIL, B.A., Lecturer in Economics. *Capitol* 221 — 1609 Madison

WOJTA, JOSEPH FRANK, M.S., State Leader, County Agricultural Representatives. *A. H.* 104B — 2259 West Lawn Ave

[1]WOLFENSON, LOUIS BERNARD, Ph.D., Assistant Professor of Semitic Languages and Hellenistic Greek.

WOOD, HARRY PETERSON, E.E., Professor of Electrical Engineering, Milwaukee District, Extension Division. *542 Jackson St.* — 398—45th Street, Milwaukee

WOY, FRANK P., B.S., Assistant Professor of Steam and Gas Engineering. *E. B.* 221 — 1713 Hoyt

WRIGHT, ANDREW HAMILTON, M.S., Associate Professor of Agronomy. *Agron B.* 34 1131 Mound

WRIGHT, WILLIAM HARMAN, M.S., Associate Professor of Agricultural Bacteriology. *A. H.* 213 1905 West Lawn Ave

YOUNG, ELIZABETH D., M.A., Mistress of Barnard Hall. Barnard

ZDANOWICZ, CASIMIR DOUGLAS, Ph.D., Professor of Romance Languages. *B. H.* 309 803 State

ZEASMAN, OTTO REINHART, B.S., Assistant Professor of Agricultural Engineering and Soils. *A. E. B.* 104 2220 Keyes Ave

INSTRUCTORS AND ASSISTANTS

ABEGG, FRED ANTON, M.S., Assistant in Genetics. *A. C. B.* 203 1621 Madison

ACTON, HUL-CEE MARCUS, M.A., Instructor in Romance Languages. *B. H.* 312 1216 W. Johnson

ADAMS, ELMER WADE, M.S., Assistant in Chemistry. *C. B.* 314 128 N. Orchard

AKERS, SUSAN GREY, B.A., Instructor in Cataloging, Classification and Library Economy, Library School. *Madison Free Lib.* 121 W. Wilson

ALBERT, ARTHUR ROBERT, B.S., Instructor in Soils. In Charge of Hancock-Coddington Branch Experiment Station. Hancock

ALBERT, WILLARD BENJAMIN, B.S., Research Assistant in Botany. *Agron. B.* 31 R. D. 7

ALBERTZ, HUGO WILLIAM, M.S., Instructor in Agronomy. *Agron. B.* 32 312 Huntington Ct

[5]ALBJERG, VICTOR J., B.A., Assistant in History. *B. H.* 118 14 S. Mills

ALLEN, FLORENCE ELIZA, Ph.D., Instructor in Mathematics. *N. H.* 402 219 Lathrop

AMUNDSON, ROBERT A., County Agricultural Representative, Outagamie County. *Court House* 694 Hancock, Appleton

ANDERSON, DONALD BENTON, M.A., Instructor in Botany. *B. B.* 202 1707 Jefferson

ANDERSON, EDWARD, B.S., Instructor in Steam and Gas Engineering. *E. B.* 71 734 Chapman

ANDERSON, ELDA EMMA, B.A., Assistant in Physics. *St. H.* 223 1102 W. Johnson

ARBUTHNOT, GEORGE L., B.S., Assistant in Agricultural Engineering. *A. E. B.* 107 302 Huntington Ct

ARVIDSON, MRS. RUTH HURLBUT, M.A., Instructor in Romance Languages. *B. H.* 319 1105 University Ave

ATKINS, WILLIAM GARRET, Staff Sergeant, Retired. U. S. A., Assistant to the Commandant. *Armory* 1 930 Lawrence

AURNER, ROBERT RAY, Ph.D., Instructor in English. *B. H.* 366 1920 Arlington Pl

BABCOCK, RODNEY WHITTEMORE, M.A., Instructor in Mathematics. *N. H.* 406 2022 Madison

BACHMANN, FREDA MARIE, Ph.D., Instructor in Agricultural Bacteriology. *A. H.* 312 420 N. Warren

BACON, ROGER ORLANDO, B.A., Assistant in History. *Lib.* 125 925 W. Johnson

BAILEY, ELBERT GLADSTONE, B.S., County Agricultural Representative, Door County. *Court House* 421 Lincoln St., Sturgeon Bay

[5]BAKKEN, HENRY HARRISON, B.A., Assistant in Agricultural Economics. *A. H.* 307 308 Oak St., Mt. Horeb

BALDWIN, LEO STARR, B.A., B.S., Instructor in Drawing and Descriptive Geometry. *E. B.* 414 1147 Sherman Ave

BALLAM, GEORGE ALFRED, Student Assistant in Chemistry. *C. B.* 113 1135 Emerald

BARNES, JOHN, M.A., Assistant in Speech. *B. H.* 206 129 Lathrop

[5]BARTHOLOMEW, ROBERT PERCIVAL, M.S., Instructor in Soils, State Soils Laboratory (first semester). Instructor in Soils (second semester). *S. B.* 104A 1715 Adams

BASSUENER, REYNOLD OLIVER, B.A., Assistant in Physiology. *Sc. H.* 20 416 N. Carroll

BATCHELOR, CHAUNCY CUSHING, M.A., Instructor in English. *B. H.* 363 803 State

BAUER, CARL PHILIP, M.D., Instructor in Clinical Medicine. *Clin. B.* 803 State

BEAVER, HOWARD TICHENOR, M.A., Assistant in Economics. *St. H.* 319 803 State

BEEBE, GORDON ALCOTT, B.S., Instructor in Topographic Engineering. *E. B.* 53 1141 Sherman Ave

BENHAM, EVELYN, B.A., B.M., Instructor in Music. *M. H.* 40 25 Mendota Ct

BENNETT, EDWARD EARL, M.A., Assistant in History. *Lib.* 125 310 N. Murray

BERG, GEORGE OSCAR, Instructor in Physical Education. *Gym.* 2154 West Lawn Ave

BIRDSONG, HENRY ELLIS, B.A., Instructor in Journalism. *S. H.* 32 218 N. Murray

BLACK, ARCHIE, M.S., Assistant in Agricultural Chemistry. *A. C. B.* 117 621 N. Lake

BLAIR, LAWRENCE EDSON, Draftsman and Instructor in Mechanical Drawing, Extension Division. *U. E. B.* 305 120 N. Franklin

BLANCHARD, JOHN DAVID, M.A., Assistant in Economics. *St. H.* 317 2005 Monroe

BLANCO, ENRIGUE, B.D., Instructor in Romance Languages. *B. H.* 308 116 S. Orchard

[5]BLANTON, MRS. MARGARET GRAY, Assistant in Speech. *B. H.* 2121 Adams

BLECKWENN, WILLIAM JEFFERSON, M.D., Instructor in Neuro-Psychiatry, Public Health Institute. *Clin. B.* 10 1016 Van Buren

[5]Blodgett, Robert O., **Assistant in Physical Education.** *Gym* 640 N. Henry

Bodensieck, Anne Marie, M.A., Assistant in Romance Languages. *B. H.* 312 202 N. Park

Bohlman, Herbert William, M.A., Assistant in Economics. *St. H.* 403 307 N. Murray

Bonawitz, Walter George, Student Assistant in Highway Engineering and City Planning. *E. B.* 215 133 N. Charter

Borge, Aagot Marion Katherine, B.M., Instructor in Music. *M. H.* 38 315 N. Blair

Boyden, Alan Arthur, B.A., Assistant in Zoology. *B. B.* 355 431 Hawthorne Ct

Boyden, Mrs. Mabel Gregg, M.A., **Research Assistant in** Zoology. *B. B.* 258 431 **Hawthorne Ct**

Bradbury, Dorothy, M.A., Assistant in Horticulture, Peninsular Station. *H. B.* 103 1713 Chadbourne Ave

[5]Brader, James Lyman, B.A., Assistant in Physical Education. *Gym.* 302 S. Bassett

Brann, Andrew Jacob, B. S., County Agricultural Representative, Oneida County. *Court House* 316½ Dahl St., Rhinelander

Brant, Howard Jonathan, M.S., Extension Specialist in Animal Husbandry. *A. H.* 202 1707 Summit Ave

Braun, Ann, M.S., Instructor in Home Economics. *H. E. B.* 323 2148 Keyes Ave

Bresnehan, Vivian H., Ph.D., Instructor in English. *B. H.* 353 237 Langdon

Brewer, Aubrey Keith, M.S., Assistant in Chemistry. *C. B.* 113 5 N. Mills

[5]Bridge, Bert, **Assistant in Forge Practice.** ***Randall Shops*** 1315 E. **Dayton**

Bridgman, Alma Louise, B.A., Assistant in Economics. *St. H.* 308 1111 W. Johnson

[5]Briggs, Adelin Sumner, B.A., Assistant to the Director of the Bureau of Educational Research. *B. H.* 117 616 N. Carroll

Brooks, Albert Nelson, B.A., Assistant in Plant Pathology. *H. B. Grad. Lab.* 1728 Van Hise Ave

Brooks, John, M.A., Instructor in Romance Languages. *B. H.* 306 803 State

[5]Brown, Damon Alonzo, B.A., M.D., Associate in Clenical Medicine. *Clinic* **237 Langdon**

Brown, Harold Gibson, M.A., Instructor in English. *B. H.* 370 803 State

Brown, Lydia Lawrence, M.A., Assistant to the Dean of Women. *Lathrop* 102 431 Hawthorne Ct

Brown, Ralph Hall, B.S., Assistant in Geography, *Sc. H.* 313 206 N. Orchard

Brownell, Mary Alice, Instructor in Physical Education. *Lathrop* 2020 Kendall Ave

BRUBAKER, VERNON EVERETT, B.A., County Agricultural Representative, Bayfield County. Washburn

[5]BRUMM, ROMAN HENRY, Student Assistant in Physical Education. *Gym.* 1111 Williamson

BRYN, HAROLD BONNEVIE, B.S., Instructor in Mechanical Engineering. *U. E. B.* 305 Lake Forest, R. D. 6

BUCK, FLORA, M.A., Instructor in German. *B. H.* 255 1311 Morris

BUCKSTAFF, SHERWOOD, M.S., Assistant in Geoolgy. *Sc. H.* 205 619 Mendota Ct

BULEY, R. CARLYLE, M.A., Assistant in History. *B. H.* 208 26 N. Butler

BUNYAN, LEONIDAS HAMLIN, M.A., Instructor in Mathematics. *N. H.* 405 1130 Erin

BURKE, MEAD, B.A., Instructor in Physical Education. *Gym.* 803 State

BURKE, RICHARD JOHN, Ph.M., Assistant in Education. *B. H.* 108 1220 Mound

BUSSE, WARREN FROEMING, Student Research Assistant in Physics. *St. H.* 615 N. Lake

BUTTERWORTH, JOSEPH, M.A., Instructor in English. *B. H.* 364 803 State

BUTTON, MILTON HAND, County Agricultural Representative, Washington County. *Court House* 824 Cedar St., West Bend

CADENAS, CANDIDA, Instructor in Romance Languages. *B. H.* 312 12 East Gilman

CALDWELL, JAMES RALSTON, B.A., Assistant in English. *B. H.* 364 808 Oakland Ave

CARGILL, GEORGE C. Assistant in Applied Arts. *Ind. Arts Lab.*

CARGILL, MIRIAM AYER, B.S., Assistant in Botany. *B. B.* 305 234 Breese Terrace

CARLSON, MARGERY CLAIRE, M.S., Assistant in Botany. *B. B.* 403 1713 Chadbourne Ave

CARROLL, DANIEL BERNARD, B.A., Assistant in Political Science. *S. H.* 26 417 Sterling Pl

CARROLL, WILLIAM RICHARD, B.S., Assistant in Agricultural Bacteriology. *A. H.* 113 206 N. Orchard

CARSWELL, HARRY EATON, B.S., Assistant in Chemistry. *C. B.* 113 415 Sterling Pl

CASE, LUCY ADA, B.A., Extension Specialist in Home Economics. *H. E. B.* 223 1914 Monroe

CASON, CLARENCE ELMORE, B.S., Instructor in English. *B. H.* 370 803 State

CHILD, WILLIAM CLARK, M.S., Assistant in Chemistry. *C. B.* 113 117 N. Orchard

CHISHOLM, STANLEY LEAVITT, M.S., Instructor in Chemistry. *C. B.* 108 1927 Commonwealth Ave

CLAGUE, EWAN, M.A., Assistant in Economics. *St. H.* 315 415 Sterling Pl

CLARE, CHARLES, Instructor in Mechanical Practice. *M. S.* 5 1313 E. Dayton

CLARK, HORACE FRISBY, LL.B., M.A., Instructor in Economics. *St. H.* 403 433 W. Gilman

CLARKE, HELEN ISABEL, B.A., Instructor in Sociology. *St. H.* 330 417 Sterling Pl.

CLAUSON, NILS YLVISAKER, M.A., Assistant in Classics. *B. H.* 263 1124 Drake

[5]CLEMENTS, HARRY FRANCIS, Student Assistant in Agronomy. *Agron. B.* 1 418 N. Warren

CLUGSTON, PHIL R., M.A., Assistant in English. *B. H.* 366 1711 Van Hise Ave

COBURNE, MAURICE SYDNEY, M.A., Instructor in English. *B. H.* 361 803 State

COLBERT, ROY JEFFERSON, M.A., Assistant in Economics. *St. H.* 329 2059 Winnebago

COLEMAN, EDWIN DEWITT, B.S., Instructor in Chemical Engineering. *C. E. B.* 111 445 W. Gilman

COLLENTINE, ARTHUR O., Extension Specialist in Animal Husbandry. *A. H.* 302 1113 W. Washington Ave.

COLLINS, WILLIAM ALLAN, Student Assistant in Topographic Engineering. *E. B.* 54 526 W. Dayton

COLT, ARTHUR NICHOLSON, Instructor in Applied Arts. *Ind. Arts Lab.* 229 .... 803 State

CONKLIN, PAUL SALISBURY, B.S., Assistant in English. *B. H.* 366 536 W. Johnson

[5]CONOVER, JULIAN DARST, B.A., Instructor in Geology. *Sc. H.* 211 435 N. Paterson

COON, GAYLAND PALMER, B.S., Instructor in Pathology. *Sc. H.* 412 107 N. Hancock

[5]COON, MRS. JENNIE FAYARD, B.A., Assistant in Romance Languages. *B. H.* 312 1904 Kendall Ave

COOPER, OLIVE LONG, B.S., Instructor in Home Economics. *H. E. B.* 403 310 N. Murray

CORBIN, FLORENCE MAY, B.S., Instructor in Home Economics. *W. H. S.* 312 1631 Monroe

CORLEY, GROVER LEROY, M.A., Assistant in Chemistry. *C. B.* 106 1004 W. Washington Ave.

CORNWELL, IRENE, Ph.D., Instructor in Romance Languages. *B. H.* 318 116 E. Gilman

COX, GEORGE B., B.S., Instructor in Industrial Education. *W. H. S.* 9 1611 Adams

COYNER, JAMES MCKEE, M.S., County Agricultural Representative, Jefferson County. *Robisch Bldg.* 823½ Linden Ave., Jefferson

CRAIGHILL, ELEANOR RUTHERFORD, B.S., Instructor in Home

Economics. *H. E. B.* 403 12 E. Gilman

CRAMER, ALBERT JULIUS, B.S., Supervisor of Cow-Testing Associations. *Dairy Records B.* 143 Lathrop

CROMWELL, HOBART WILLIAM, Sc.D., Instructor in Bacteriology. *Sc. H.* 324 R. D. 7

DALLAS, HELEN VIRGINIA, Student Assistant in Accounting. *St. H.* 312 224 N. Murray

DAOUST, CLARENCE DANIEL, Student Assistant in Business Administration. *St. H.* 423 344 W. Dayton

DAUBNER, NEAL FREDERICK, Instructor in Drawing and Descriptive Geometry. *E. B.* 414 831 Prospect Pl

DAVIS, MRS. WINIFRED LEMON, M.A., In charge of the Course for School Libraries. Instructor in Reference, Library School. *Madison Free Lib.* 480 N. Baldwin

DEAN, JAMES PHILIP, B.S., D.M., Associate in Surgery. 22-24 *N. Carroll* 504 E. Gorham

DERTHICK, WILBER MORRIS, Chief Organizer, Extension Division. *U. E. B.* 205 313 N. Charter

DEUTSCH, HERMAN JULIUS, M. A., Assistant in History. *B. H.* 218 224 N. Brooks

DE VINNEY, SYLVAN SHETTERLY, Student Research Assistant in Physics. *St. H.* 14 536 W. Dayton

[5]DEXTER, ELSIE FORSYTHE, M.A., Instructor in Romance Languages. *B. H.* 319 111 E. Gorham

DICKINSON, SHELDON JAMES, M.S., Assistant in Chemistry. *C. B.* 206 621 N. Lake

DICKSON, ALLAN DAVID, Student Assistant in Agricultural Chemistry. *A. C. B.* .... 621 N. Lake

DITTMER, CLARENCE GUS, M.A., Instructor in Sociology. *St. H.* 329 921 Spaight

DOKE, HOWARD BAILEY, Instructor in Drawing and Descriptive Geometry. *E. B.* 405 602 E. Gorham

DOLE, KENNETH, B.A., Assistant in English. *B. H.* 353 803 State

DOMOGALLA, BERNHARD PAUL, M.S., Research Assistant in Zoology. *A. H.* 112 501 University Ave

DOPP, ERNEST, JR., B.A., Assistant in Botany. *B. B.* 302 25 N. Franklin

DORAU, HERBERT BENJAMIN, M.A., Research Innstructor in Land Economics. *St. H.* 310 2206 Hollister Ave

DOUCHET, MARIE-JEANNE, Brevet supérieur, Assistant in Romance Languages. *B. H.* 312 1105 University Ave

[5]DRIVER, EARL S., LL.B. Assistant in Physical Education. *Camp Randall* 450 W. Washington Ave

DRUMMOND, NEVA HELEN, M.S., Instructor in Zoology. *B. B.* 253 310 N. Murray

DU BRIDGE, LEE ALVIN, B.A., Assistant in Physics. *St. H.* 20 324 S. Mills

DUFFY, WALTER ALOYSIUS, B.S., County Agricultural Representative, Barron County. *Court House* Barron

DUNSTAN, ROBERT TAYLOE, M.A., Assistant in Romance Languages. *B. H.* 312 526 W. Johnson

[5]DURAND, LOYAL, JR., Student Assistant in Geography. *Sc. H.* 313 630 N. Lake

DURHAM, GEORGE BENJAMIN, M.S., Assistant in Botany. *B. B.* 404 1004 W. Washington Ave

[5]DYKSTRA, THEODORE PETER, B.S., Assistant in Horticulture. *H. B.* 108 1136 Drake

EASTMAN, IRENE BELLE, B.M., Instructor in Music. *M. H.* 34 417 Sterling Pl.

EATON, HOWARD ORMSBY, B.A., Assistant in English (first semester). Assistant in Philosophy (second semester). *B. H.* 353 428 N. Lake

EBLING, WALTER HENRY, B.S., Assistant to the Dean of the College of Agriculture. *A. H.* 101 1724 Madison

[5]ECKBERG, CHARLES A., Assistant in Agricultural Bacteriology. Brohead

ELDRIDGE, JOHN ADAMS, Ph.D., Instructor in Physics. *St. H.* 125 1926 Rowley Ave

[5]ELLINGWOOD, RICHARD EVERETT, B.S., Instructor in Business Administration. *U. E. B.* 215 404 W. Mifflin

ELVEHJEM, CONRAD ARNOLD, B.S., Assistant in Agricultural Chemistry. *A. C. B.* 117 309 N. Mills

EMERSON, HELEN, B.A., Assistant in German. *B. H.* 255 1311 Morris

EMMONS, RICHARD CONRAD, M.A., Assistant in Geology. *Sc. H.* 223 1636 Adams

ENNOR, WILLIAM TREHANE, B.S., Instructor in Chemical Engineering. *C. E. B.* 213 809 Clymer Pl.

ETHERIDGE, JESSE IRVING, M.S., Instructor in Agricultural Extension (U. S. Veterans' Bureau Rehabilitation Work) Hotel Eau Claire, Eau Claire

FAIR, ETHEL MARIAN, B.A., Instructor in Library Administration and Children's Work, Library School. *Madison Free Lib.* 427 N. Butler

FELLOWS, DONALD ROSS, B.A., Instructor in Business Administration. *St. H.* 424 1806 Kendall Ave

FELTGES, EDNA MAY, M.A., Instructor in Mathematics. *N. H.* 404 419 Sterling Pl

FENNER, WILLIAM LAWRENCE, B.S., Instructor in Mathematics. *N. H.* 404 615 N. Lake

FERNBERG, CLARENCE LEONARD, M.A., Instructor in English. *A. H.* 324 803 State

FETROW, WARD WILLARD, Ph.D., Assistant in Agricultural Economics. *A. H.* 304 2102 University Ave

FINZEL, THERON GUTMANN, B.S., Assistant in Chemistry. *C. B.* 113 621 N. Lake

FISH, NORMAN SHEFFIELD, B.S., Instructor in Agricultural Engineering. *A. E. B.* 104 1319 Chandler

FISK, EMMA LUELLA, M.A., Instructor in Botany. *B. B.* 205 936 University Ave

FLETT, MRS. CLARA BAKER, M.A., Assistant to the Dean of Women. *Lathrop* 104 523 N. Carroll

FOLEY, ALLEN RICHARD, B.A., Assistant in History. *B. H.* 210 803 State

FOLEY, JAMES OWEN, M.S., Assistant in Zoology. *B. B.* 355 116 Lathrop

FOX, PHILIP GORDER, B.A., Assistant in Accounting. *St. H.* 408 316 Wisconsin Ave

FRAZIER, WILLIAM CARROLL, B.S., Instructor in Agricultural Bacteriology. *A. H.* 212 1724 Madison

FRENCH, HENRY CLINTON, Student Assistant in Industrial Education. *Ind. Arts Lab.* 231 210 Langdon

FRENCH, NEWELL ELLSWORTH, B.S., Instructor in Electrical Engineering. *E. B.* 306 45 Lathrop

FRENCH, ROY LAVERNE, B.A., Assistant in Journalism. *S. H.* 7 and 8 512 Wingra

FREY, JOHN WEAVER, B.S., Instructor in Geography. *Sc. H.* 313 321 N. Brooks

FRIEDMAN, LOUIS LEONARD, B.S., Interne. *Bradley Mem. Hosp.* 1303 Morris

FRYE, MIRIAM LOUISE, B.A., Instructor in Business Administration. *St. H.* 408 45 Lathrop

FULCHER, PAUL MILTON, M.A., Instructor in English. *B. H.* 365 135 N. Charter

FULLER, MRS. FLORENCE GERKIN, B.A., Assistant, Department of Debating and Public Discussion, Extension Division. *U. E. B.* 6 218 N. Lake

FULLER, HOWARD HASTINGS, B.S., Instructor in Electrical Engineering *Elec. Lab.* 102 218 N. Lake

GALL, ALICE LOUISE, B.A., Instructor in Physical Education, *Lathrop* 415 Sterling Pl

GANGSTAD, IDA MARIE, B.A., Instructor in Library Methods and Library Assistant, Department of Debating and Public Discussion, Extension Division. *U. E. B.* 210 613 N. Frances

GARWOOD, RUTH EMMA, M.A., Instructor in Romance Languages. *B. H.* 319 1820 Summit Ave

GEIST, FREDERICK DENKMAR, M.D., Instructor in Anatomy. *Sc. H.* 403 1045 E. Gorham

[5]GERE, C. M., Instructor in Agricultural Bacteriology. Brodhead

GERHAUSER, MRS. EUGENIE, Herbarium Assistant. *B. B.* 202 419 Sterling Pl

GIBSON, JOHN CURRIE, B.A., Instructor in Accounting. *St. H.* 412 Lake Forest, R. D. 6

[5]GIBSON, ORIE EDWARD, B.S., County Agricultural Representative, Vilas County — Eagle River

GIDDINGS, GLENN WARD, B.A., Assistant in Physics. *St. H.* 221 — 324 S. Mills

GILDOW, ELTON MAURICE, D.V.M., B.S., Assistant in Veterinary Science. *A. H.* 204 — 136 Lathrop

GILMAN, FLORA MOSELEY, Librarian, Chemistry Building. *C. B.* 302 — 1230 E. Dayton

GIVENS, MEREDITH BRUNER, B.A., Assistant in Economics and Music. *St. H* 319 — 415 Sterling Pl

GLAETTLI, HERBERT, B.S., Instructor in Mechanics. *E. B.* 62 — 2141 Fox Ave

GLASSCO, ROY THOMAS, B.S., County Agricultural Representative, Rock County. *Court House* 2 — 731 Yuba St., Janesville

GODFREY, THEODORE BRUCE, Student Research Assistant in Physics. *St. H.* 10 — 615 N. Lake

GONCE, JOHN EUGENE, JR., M.D., Instructor in Clinical Medicine. *Clin. B.* 4 — 762 Langdon

GORROW, EDWARD MILTON, Instructor and Field Organizer, Oshkosh District, Extension Division. *F. R. A. Bldg.* 128 — 780 Superior St., Appleton

GOUDE, WILLIAM CLINTON, Instructor in Foundry Practice. *Randall Shops* — 180 Potter

GRAHAM, CLARK JAMES, M.A., Assistant in English. *B.H.* 370 — 829 S. Brooks

GRANOVSKY, ALEXANDER A., M.S., Instructor in Economic Entomology, Peninsular Branch Station. *Econ. Ent. B.* 204 — 803 State

GRAY, IRVING EMERY, B.S., Assistant in Zoology. *B. B.* 251 — 116 Lathrop

GREEN, JEROME BOLEY, M.S., Assistant in Physics. *St. H.* 220 — 1015 Grant

GREENLEAF, CHARLES HUNT, M.A., Instructor in Romance Languages. *B. H.* 320 — 625 Mendota Ct

GREENLEAF, MRS. JEANNE HARAUEL, B.L., Instructor in Romance Languages. *B. H.* 304 — 625 Mendota Ct

GRUNDLER, AUGUSTUS FERDINAND, M.A., Instructor in Romance Languages. *B. H.* 320 — 133 W. Wilson

GUYLES, CALLA A., Ph.B., Instructor in the Teaching of Latin *W. H. S.* 212 and *S. H.* 28 — 419 Sterling Pl

HAAS, ALFRED J., Executive Secretary, College of Agriculture. Assistant in Agricultural Economics. *A. H.* 101 — 440 ClemensAve

[5]HAENTZSCHEL, ADOLPH THEODORE, M.A., Assistant in Philosophy. *B. H.* — 301 Huntington Ct

[5]HAGERTY, MILDRED ISABEL, B.S., Instructor in Agricultural Extension (Assistant State Leader, Boys' and Girls' Agricultural Clubs) *A. H.* 115 — 612 S. Brearly

HAINES, LOUIS BENJAMIN, M.S., Assistant in Chemistry. *C. B.* 113 621 N. Lake

HALE, WEALTHY M., B.S., Extension Specialist in Home Economics. *H. E. B.* 223 138 Lathrop

HALES, GUY S., B.S., County Agricultural Representative, Ozaukee County. *Court House* 514 Harrison St., Port Washington

[5]HALL, SOPHIA, B.A., Assistant and Librarian, Municipal Information Bureau, Extension Division. *U. E. B.* 203 417 Sterling Pl

HALVERSON, LYNNE HARVEY, B.A., Assistant in Geology. *Sc. H.* 310 14 N. Broom

HAMER, RICHARD, Ph.D., Instructor in Physics. *St. H.* 222 2206 Chamberlin Ave

HAMPTON, HAROLD CLARKE, M.A., Instructor in Botany. *B. B.* 53 131 Brittingham Pl

HANNON, THEODORE RICHARD, B.A., Assistant in Physiological Chemistry. *Sc. H.* 11 620 N. Lake

[2]HARKNESS, STANLEY BATES, B.A., Instructor in English. *B. H.* 368 610 Lake

HARRIS, JOSEPH PRATT, Ph.D., Instructor in Political Science. *S. H.* 25b 720 Brittingham Pl

HARRIS, ROY THEODORE, Supervisor, in Charge of Dairy Tests. *Dairy Records B.* 1925 Monroe

HARTUNG, WILLIAM HENRY, B.A., Assistant in Chemistry. *C. B.* 314 14 S. Mills

HATHAWAY, EDWARD STRUTEVANT, M.A., Instructor in Zoology. *B. B.* 458 1337 Mound

HATHAWAY, MRS. EMMA G., B.A., Instructor in English. *U. E. B.* 212 1337 Mound

HAYNES, EDITH, M.A., Assistant in Agricultural Bacteriology. *A. H.* 312 415 N. Park

HEATH, HAROLD JOHN, Student Assistant in Physiological Chemistry. *Sc. H.* 4C 416 N. Carroll

HELBLE, HERBERT HENRY, B.A., Assistant in Political Science. *S. H.* 26 111 N. Orchard

HENSEY, IRENE ANITA, M.S., Instructor in Accounting. *St. H.* 412 1102 W. Johnson

HERRMAN, ROY FREDERICK, Student Assistant in Physiological Chemistry. *Sc. H.* 11 416 N. Carroll

HERRMAN, ROY FREDERICK, Student Assistant in Physiological Chemistry. *Sc. H.* 11 416 N. Carroll

HICKS, CHARLES HENRY, Student Research Assistant in Zoology. *B. B.* 251 3 S. Mills

HILL, N. ALFRED, B.S., Assistant in Genetics. *A. C. B.* 201A 136 Lathrop

HINMAN, ALBERT GREENE, B.A., Instructor in Business Administration. *St. H.* 424 1618 Adams

HINZ, STELLA M., M.A., Assistant in German. *B. H.* 255 444 N. Charter

HIPPE, FANCES WARDLOW, Student Assistant in Anatomy. *Sc. H.* 1628 Schiller Ct

HITCHCOCK, GEORGE DAVID, Instructor in Mechanical Practice. Assistant in Physical Education. *M. S.* 1 510 W. Mifflin

HODGES, FRED JENNER, B.S., M.D., Instructor in Physiology. *Bradley Mem. Hosp.* 110 1903 Rowley Ave

HOFFMAN, LAVERNE MILTON, B.S., Instructor in Civil and Structural Engineering. *U. E. B.* 308 438 N. Frances

HOLDEN, EUGENE DAVENPORT, M.S., Instructor in Agronomy. *Agron. B.* 24 1615 Summit Ave

HOLFORD, FRANCES ELIZABETH, B.A., Instructor in Bacteriology. *Sc. H.* 413 636 Howard Pl

HOLST, SIGNE, M.B., Instructor in Music. *M. H.* 37 123 Breese Terrace

HORTON, GEORGE WILLIAM, M.S., Assistant in Physics. *St. H.* 221 614 Langdon

HOW, JULIAN P., B.S., Assistant in Chemistry. *C. B.* 111 N. Orchard

HOWE, THOMAS DUDLEY, M.A., Assistant in Botany. B. B. 404 1930 Monroe

HOYT, AVIS N., Assistant Recorder, Extension Division. *U. E. B.* 107 1116 W. Johnson

HRUBESKY, CLARENCE EARL, B.S., Research Assistant in Chemistry. *C. B.* 105 621 N. Lake

HUDSON, ALICE OLIVIA, Reviser, Library School. *Madison Free Lib.* 1437 Morrison

HUFFER, CHARLES MORSE, M.A., Assistant, Washburn Observatory. *Observatory* 319 N. Brooks

HULBURD, BENJAMIN NOYES, Ph.B., Assistant in English. *B. H.* 353 2110 Chamberlin Ave

HUNT, JAMES CARR, B.S., Assistant in Chemistry. *C. B.* 113 210 Bernard Ct

HUNTER, PAUL FOSKETT, Instructor in Physical Education. Manager of Tickets and Publicity. *Gym* 2115 Kendall Ave

INMAN, ARTHUR CHARLES, B.A., Assistant in Business Administration. *St. H.* 423 145 Iota Ct

IRWIN, JOHN SCOTT. B.A., Instructor in Romance Languages, Milwaukee District, Extension Division. 471 *Van Buren St.* 289 Pleasant Ave., Milwaukee

[5]JACKSON, JAMES ALBERT, M.D., Associate in Surgery. *Jackson Clinic* 110 N. Hamilton

JACKSON, JOSEPH WALTER, B.S., Assistant and Field Organizer, Madison District, Extension Division. *U. E. B.* 205 913 E. Gorham

JACOBUS, STELLA EVELYN, Assistant in Agricultural Economics. *A. H.* 304 152 W. Gorham

JAMESON, MALCOLM FOOTE, B.A., Assistant in Physics. *St. H.* 225 Clifford Ct

JAMIESON, HELEN MAY, B.A., Assistant in Romance Languages. *B. H.* 312 819 Irving Pl

JANSEN, GEORGE, M.S., Assistant in Agronomy and Plant Pathology. 114 N. Charter

JENKINS, GLENN LLEWELLYN, M.S., Assistant in Pharmacy. *C. B.* 353 140 W. Gilmain

JENSEN, CAREY MORGAN, M.A., Instructor in Mathematics. *N. H.* 208 207 W. Washington Ave

JOHNSON, MARION MARCH, B.S., Instructor in Physiology. *Sc. H.* 116 415 Sterling Pl

[5]JOHNSON, MILTON ORESTES, B.A., M.B.A., Instructor in Economics, Milwaukee District, Extension Division. 471 *Van Buren St.* 501 Cass St., Milwaukee

JOHNSON, OREN N., Assistant in Poultry Husbandry. *Poultry B.* 1113 W. Dayton

JOHNSON, ORVILLE M., B.S., Assistant in Agricultural Economics. *A. H.* 307 R. D. 7

JOHNSTON, EMERY KENNEDY, B.J., Instructor in Business Administration. *U. E. B.* 215 131 Langdon

JONES, JAMES HAZLITT, M.S., Assistant in Agricultural Chemistry. *A. C. B.* 117 415 Sterling Pl

JONES, LEON KILBY, Ph.D., Instructor in Plant Pathology. One-half time Peninsular Branch Station. *H. B.* 209 723 Conklin Pl

JONES, LESTER MARTIN, M.A., Assistant in Economics. *St. H.* 329 319 N. Brooks

JORDAN, BRADY RIMBEY, B.Litt., Instructor in Romance Languages. *B. H.* 307 808 Oakland Ave

JULIEN, ARLIE PAUL, M.S., Assistant in Chemistry. *C. B.* 206 535 W. Dayton

KANDEL, ERNESTINE, Laboratory Assistant in Clinical Medicine. *Clin. B.* 3 1025 W. Johnson

KASTLER, DONALD MONTANYE, B.A., Assistant in English. *B. H.* 353 803 State

KAVANAUGH, JAMES NICHOLAS, A.G., County Agricultural Representative, Brown County. *Court House* 121 S. Monroe, Green Bay

KEAY, CAROL SEAVER, Instructor in Physical Education. *Lathrop* 1820 Summit Ave

KECK, EVERETT BLAINE, Instructor in Drawing and Descriptive Geometry. *E. B.* 403 140 Langdon

KEENAN, JOHN B., County Agricultural Representative, Grant County. *Court House* Lancaster

KELLER, ERNEST GEORGE, M.A., Instructor in Mathematics. *N. H.* 408 Briar Hill

KELSEY, RACHEL MARJORIE, M.L., Instructor in English. *U. E. B.* 212 406 S. Mills

KENYON, WALTER ALEXANDER, M.A., Assistant in Zoology. *B. B.* 355 642 State

KESSLER, LEWIS HANFORD, B.S., Instructor in Hydraulic Enigineering. *E. B.* 219 716 Conklin Pl

KING, KENNETH JACOB, Student Assistant in Machine Design. *E. B.* 315A 519 State

KINSLOW, MARY ALICE, B.S., Instructor in Home Economics. *H. E. B.* 115 640 N. Frances

KLEIN, ESTHER WILSON, B.S., Instructor in Physical Education. *Lathrop* 139 N. Lake

KLEIN, MICHAEL WILLIAM, M.S., Assistant in Chemistry. *C. B.* 113 313 Huntington Ct

KLINKA, JOHN SIMANDL, County Agricultural Representative Polk County (to January 1, 1924), Trempealeau County (beginning February 1, 1924). *Court House* Whitehall

KNIGHT, BRUCE WINSTON, M.A., Assistant in Economics. *St. H.* 317 417 Sterling Pl

[5]KNIGHT, GAROLD LOUIS, B.S., Assistant in Geology. *Sc. H.* 223 1303 W. Johnson

KNIPFEL, HERBERT MCKINLEY, County Agricultural Representative, Clark County. *Court House* Neillsville

KOCH, JOHN RALPH, M.S., Research Assistant in Chemistry. *C. B.* 101 311 W. Doty

KOEHLER, GLENN, B.S., Instructor in Electrical Engineering. *Elec. Lab.* 202 510 S. Mills

KOLB, ROLAND A., B.S., County Agricultural Representative, Taylor County. *Court House* Medford

KREMERS, LAURA RUTH, B.A., Assistant in Horticulture. *H. B.* 302 304 Princeton

KUEHNER, CONRAD LOUIS, B.S., Extension Specialist in Horticulture. *H. B.* 1333 Mound

KUENZI, ERNEST GOTTFRIED, B.S., Dispensarian, University Hospitals. *Bradley Mem. Hosp.* 2 143 Prospect Ave

KUNEY, MRS. BERNICE DONNELLY, M.A., Instructor in English. *U. E. B.* 212 415 Sterling Pl

KURTZ, CHESTER MOTT, B.S., Assistant in Drawing. *E. B.* 302 205 W. Gilman

LACEY, JAMES JEROME, County Agricultural Representative, Green Lake County. *Court House* Green Lake

LACEY, JAMES THEOPHOLIS, B.S., Assistant in Anatomy. *Sc. H.* 410 913 University Ave

LAMPMAN, CLIFFORD ELMER, B.S., Instructor in Poultry Husbandry. *Poultry B.* 309 N. Mills

LANDON, FRANCES HELEN, B.M., Instructor in Music. *M. H.* 70 1820 Summit Ave

LANGDON, GRACE, B.A., Instructor in Agricultural Journalism. *A. H.* 116 319 E. Johnson

LANGER, HELEN MARY, Ph.D., Instructor in Romance Languages. *B. H.* 319 324 N. Charter

LANGWILL, MRS. IRENE, B.A., Recorder, Milwaukee District, Extension Division. 471 *Van Buren St.* 264 Oneida St., Milwaukee

LARSON, LUDVIG CONRAD, E.E., Instructor in Electrical Engineering. *Elec. Lab.* 212 — 1621 Jefferson

LASLEY, ROBERT LAW, M.A., Instructor in English. *B. H.* 364 — 1506 Madison

LATHROP, ANDREW WILLIAM, M.S., Assistant in Animal Husbandry. *A. H.* 202 — 1203 W. Dayton

LAUTERBACH, CHARLES EDWARD, M.A., Assistant in Education. *B. H.* 123 — 1117 Bowen Ct

LAZIER, WILBUR ARTHUR, M.S., Research Assistant in Chemistry. *C. B.* 311 — 128 N. Orchard

LE FORT, EMILIO, Ingeniero Agrónomo, Assistant in Romance Languages. *B. H.* 312 — 803 State

LEININGER, ELMER, B.S., Assistant in Chemistry. *C. B.* 205 — 408 N. Lake

LEITZ, FRANK BANTLEY, B.S., Instructor in Physical Education. *Gym* 301 — 140 Langdon

[5]LELAND, MARIAN E., Instructor in Home Economics. *H. E. B.* 403 — 221 Clifford Ct

LEPKOVSKY, SAMUEL, M.S., Instructor in Agricultural Chemistry. *A. C. B.* 117 — 1214 W. Dayton

LEVERICH, EDWARD STARR, B.S., County Agricultural Representative, Eau Claire County. *Training School Bldg.* — 425 Broadway, Eau Claire

[5]LEVIS, GEORGE WINDER, B.A., Assistant in Physical Education. *Gym.* — 217 Langdon

LEWIS, JOHN ROBERTS, M.S., Assistant in Chemistry. *C. B.* 113 — 1717 University Ave

LIDDLE, EARL LAREN, B.S., County Agricultural Representative, Monroe County. *Court House* — Sparta

LIESCH, WILLIAM H. H., Instructor and Field Organizer, Oshkosh District, Extension Division. *F. R. A. Bldg.* — 419 S. Park Ave., Oshkosh

LIMBER, RALPH CLARK, M.A., Instructor in English. *St. H.* 424 — 1116 W. Johnson

LINDEGREN, ALINA MARIE, M.A., Assistant in History. *B. H.* 210 — 1907 Monroe

LIVERMORE, JOSEPH DOW, B.S., Instructor in Drawing and Descriptive Geometry. *E. B.* 405 — R. D. 6

LLOYD, LILLIE ELIZABETH VIRTUE, M.A., Assistant in Romance Languages. *B. H.* 312 — 431 Hawthorne Ct

LOFT, GENIVERA EDMUNDS, M.A., Instructor in Geography. *Sc. H.* 310 — 2121 Kendall Ave

[5]LONGENECKER, ERNST A., B.S., Instructor in Steam and Gas Engineering. *E. B.* 71B — 628 Langdon

LOOMIS, LOUIS PRICE, B.S., Instructor in Mathematics. *N. H.* — 1908 Adams

LOUNSBURY, HARRY EDWARDS, Student Assistant in Pharmacy. *C. B.* — 1015 W. Dayton

LOUNSBURY, JAMES ANDERSON, M.S., Research Assistant in Botany. *B. B.* 302 431 Hawthorne Ct

LUDDEN, ALFRED DEXTER, M.S., Assistant in Chemistry. *C. B.* 113 1226 W. Dayton

LUTHER, MELVIN EDDY, B.S., Assistant in Horticulture. *H. B.* 1933 Keyes Ave

LYMAN, HOWARD BERTRAM, Student Assistant in Business Administration. *St. H.* 424 622 Mendota Ct

LYON, WILLIAM RIGG, M.S., Instructor in Electrical Engineering. *Elec. Lab.* 102 Briar Hill, R. D. 6

MCCARTHY, MARGARET MARY, B.A., Instructor in Speech. *B. H.* 453 12 E. Gilman

MCCLAINE, MARCUS HENRY, County Agricultural Representative, Sawyer County. *Court House* Hayward

MCCOLLUM, EDGAR DE BOLT, M.S., Assistant in Chemistry. *C. B.* 113 1124 W. Johnson

MCCONKEY, FAY BERNICE, Student Assistant in Speech. *B. H.* 403 625 Mendota Ct

MACCRACKEN, CHESTER, B.S., Assistant in Chemistry. *C. B.* 113 627 N. Lake

MCCREA, FORREST DRAPER, M.S., Instructor in Physiology. *Sc. H.* 26 229 Clifford Ct

MCELVAIN, SAMUEL MARION, Ph.D., Instructor in Chemistry. *C. B.* 322 803 State

[5]MCGILVARY, MRS. ELIZABETH PATON, Assistant in Romance Languages. *B. H.* 304 1920 Arlington Pl

MCLEAN, ARTHUR LLOYD, M.A., Assistant in History. *Lib.* 125 1716 Jefferson

MCNAUL, JAMES W., B.S., Instructor in Machine Design. *E. B.* 225 642 State

MCNULTY, SADIE AGATHA, B.S., Extension Specialist in Home Economics. *H. E. B.* 223 425 Sterling Pl

[5]MAGISTAD, OSCAR CONRAD, M.S., Assistant in Soils. *New S. B.* 104C Soils Bldg

[5]MALONE, JOHN JOSEPH, Instructor in Forge Practice. *Randall Shops* 816 W. Dayton

MANN, ELIZABETH LOIS, Ph.B., Assistant in English. *B. H.* 370 415 Sterling Pl

MANNS, EDWARD ALBERT, Student Assistant in Chemistry. *C. B.* 113 140 W. Gilman

MARTIN, ELLA MAY, M.A., Assistant in Botany. *B. B.* 206 1717 Chadbourne Ave

MARTIN, GEORGE WIMPFHEIMER, B.S., Assistant in Physical Education. *Gym* 820 W. Dayton

MARX, CHARLES HENRY, B.S., Instructor in Civil Engineering, Milwaukee District, Extension Division. 542 *Jackson St.* 375 Third Ave., Wauwatosa

MASLEY, ARPAD LOUIS, Instructor in Physical Education. *Gym* 43 2402 Commonwealth Ave

MASON, RALPH BRYANT, M.A., Assistant in Chemistry. *C. B.* 113 111 N. Orchard

MASSEY, DOROTHY, Assistant in History. *B. H.* 207 and *Lib.* 125 1907 Monroe

MATHISON, SIDNEY STUART, B.S., County Agricultural Representative, Sheboygan County. *Bade's Drug Store* 112 South St., Plymouth

MEACHAM, EDNA LILLIAN, M.A., Assistant in Physics. *St. H.* 223 420 N. Warren

MEACHAM, ELMER REYNOLDS, B.S., Assistant in Agricultural Engineering. *A. E. B.* 104 225 Clifford Ct

MEACHAM, MRS. VERA BROTHERS, M.A., Instructor in English. *U. E. B.* 212 225 Clifford Ct

MELOCHE, VILLIERS WILLSON, M.S., Assistant in Chemistry. *C. B.* 216 138 Lathrop

MERCIER, GERMAINE, M.A., Assistant in Romance Languages. *B. H.* 312 120 N. Orchard

MERRIAM, LESLIE JOSEPH, B.S., County Agricultural Representative, Walworth County. *Court House* 2nd Avenue and Washington St., Elkhorn

MERTZKE, ARTHUR JOHN, B.A., Instructor in Economics. *St. H.* 313 610 N. Lake

METTENET, JEANNE, Assistant in the Teaching of French, Wisconsin High School. *W. H. S.* 116 821 W. Johnson

MEULEMANS, AUGUST MARTIN, B.A., Assistant in Zoology. *B. B.* 253 1332 Spaight

MILLER, EARLE BRENNEMAN, M.A., Instructor in Mathematics. *N. H.* 204 203 N. Frances

MILUM, VERN G., B.S., Instructor in Economic Entomology. *Econ. Ent. B.* 207 1315 Randall Ct

MIOCHE, MARIE, B.A., Assistant in Romance Languages. *B. H.* 312 1105 University Ave

MOHME, ERWIN THEODORE, M.A., Instructor in German. *B. H.* 255 224 N. Brooks

[5]MOORE, RAYMOND JENNINGS, Student Assistant in Physical Education. *Gym* 407 Wisconsin Ave

MOREHOUSE, EDWARD WARD, M.A., Research Instructor in Land Economics. *St. H.* 301A 205 Prospect Ave

MORGAN, FAY BENSIL, B.A., Research Assistant in Physics. *St. H.* 17 2230 Hollister Ave

MORRIS, LLOYD WALLACE, B.A., Assistant in Physics. *St. H.* 222 1124 Drake

MORRISON, LELIA JOY, Assistant in Clinical Medicine. *Clin. B.* 2 1304 W. Dayton

[5]MORRISSEY, MAY, Assistant in Home Economics. *Infirmary* 107 435 N. Warren

MORSE, WAYNE LYMAN, Ph.B., Assistant in Speech. *B. H.* 206 1119 Mound

MOSSCROP, ALFREDA, B.A., Instructor in Physical Education. *Lathrop* 935 University Ave

MOSSMAN, HARLAND WINFIELD, M.S., Assistant in Zoology. *B. B.* 451 1707 Jefferson

MOTELY, EMERY TYLER, M.S., Instructor in Pharmacy. *C. B.* 353 237 Langdon

MOTT, MARGARET BURLING, M.A., Instructor in Romance Languages. *B. H.* 319 1920 Arlington Pl

MUELLER, FRED GEORGE, Ph.M., Instructor in Psychology. *B. H.* 13 601 State

MULVANIA, MAURICE, M.S., Instructor in Horticulture. *H. B.* 110 1046 E. Gorham

MURAT, SIDNEY P., B.S., County Agricultural Representative, Buffalo County. *Court House* Alma

MURNEEK, ANDREW EDWARD, M.S., Research Assistant in Botany. *B. B.* 209 1715 Madison

MURPHY, ARTHUR CYREAK, B.S., County Agricultural Representative, Shawano County. *265 N. Main St.* 308 W. Green Bay St., Shawano

MYRLAND, RUTH HENRIETTA, B.A., Assistant to the Director of the Course in Home Economics. *H. E. B.* 119 1918 Kendall Ave

NELSON, DELMAR WOOD, M.E., Instructor in Steam and Gas Engineering. *E. B.* 73 136 S. Hancock

[3]NELSON, GORDON E., B.A., Assistant in Physical Education. *Gym.* 126 N. Hancock

NELSON, MRS. MARIANA SELL, M.S., Instructor in Agricultural Chemistry. *A. C. B.* 5 229 Clifford Ct

NESS, ALEXANDER RENFREW, B.S., Assistant in Animal Husbandry. *A. H.* 202 1938 Kendall Ave.

NEUMEISTER, CARL L., B. S., Instructor in Mechanics. *E. B.* 66 508 N. Frances

NEWSOME, PHILIP THOMPSON, M.S., Assistant in Chemistry. *C. B.* 113 1028 W. Dayton

NEWTON, HARRIET ANN, M.A., Instructor in English. *U. E. B.* 212 406 S. Mills

NICHOLAS, JAMES BURTON, B.Chem., Assistant in Chemistry. *C. B.* 60 621 N. Lake

NICKERSON, FRANK, Assistant to the Chairman, Department of Physical Education. *Gym.* 14 S. Bassett

NICOLAI, MARTHA, B.A., Assistant in German. *B. H.* 255 218 N. Murray

NIGHTINGALE, GORDON THAYER, M.S., Instructor in Horticulture. *H. B.* 107 1715 Madison

NILES, THOMAS MCMASTER, B.S., Instructor in Hydraulic and Sanitary Engineering. *Hyd. Lab.* 2 811 State

NIMMER, FREDERICK, Student Assistant in Music. *M. H.* 3 321 Wisconsin Ave

NOBLE, HARRISON ROBERT, B.S., County Agricultural Representative, Portage County. *114 Strong's Ave.*, Stevens Point

NOLAND, LOWELL EVAN, M.A., Instructor in Zoology *B. B.* 459 132 Lathrop

OSGOOD, CARROLL WILCOX, B.S., Instructor in Anatomy. *Sc. H.* 405 143 Prospect Ave

OTTERSON, HENRY, Student Assistant in Agricultural Chemistry. *A. C. B.* 325 W. Dayton

OUTHOUSE, ALICE IRENE, Student Assistant in Anatomy. Student Assistant in Agricultural Chemistry. *Sc. H.* 308 R. D. 6

PADDOCK, FRANK, B.A., Assistant in Political Science. *S. H.* 26 417 Sterling Pl

PARKINSON, GEORGE AMBROSE, M.A., Instructor in Mathematics. *N. H.* 408 1950 E. Main

PATTERSON, HELEN MARGUERITE, B.A., Instructor in Journalism. *S. H.* 36B 424 N. Pinckney

PAULL, ROSCOE ALTON, Student Assistant in Physiological Chemistry. *Sc. H.* 4C 416 N. Carroll

PAYTON, MARTIN, Instructor in Foundry Practice. *Randall Shops* 2002 Chamberlin Ave

PEDERSEN, ERNA SOFIE, Assistant in Latin. *N. H.* 307 and *N. H.* 105 1117 W. Johnson

PEDERSON, CARL SEVERIN, Student Assistant in Agricultural Chemistry. *A. C. B.* 133 140 Langdon

PERLMAN, JACOB, M.A., Instructor in Economics. *St. H.* 313 12 S. Orchard

PETERS, CHARLES F., Instructor in Mechanical Practice. *Randall Shops* 1204 W. Washington Ave

PETERS, FREDUS NELSON, JR., M.A., Assistant in Chemistry. *C. B.* 108 1422 Mound

PETERS, MRS. HELEN M., B.A., B.S., Assistant to the Secretary of the Correspondence-Study Department, Extension Division. *U. E. B.* 103 1422 Mound

PETERS, LEO JAMES, E.E., Instructor in Electrical Engineering.. *Elec. Lab.* 202 2 Lathrop

PETERSEN, FRANK ROY, B.A., County Agricultural Representative, Florence County. *Court House* Florence

PETERSEN, MAX HEINRICH, M.A., Instructor in Physics. *St. H.* 17 1710 Jefferson

PETERSON, JOEL BIGLOW, Ph.D., Instructor in Chemistry. *C. B.* 159 1526 Chandler

PETERSON, JANE E., Instructor in Music. *M. H.* 25 419 Sterling Pl

PETERSON, RALPH ABNER, County Agricultural Representative, Wood County. *County Agricultural School.* Wisconsin Rapids

PETTIS, CHARLES SEMPLE, M.S., Assistant in Physics. *St. H.* 222 318 Norris Ct

PHELPS, MARION EVELINE, M.A., Instructor in Physics. *St. H.* 223 419 Sterling Pl

PHILLIPS, BURR WENDELL, M.A., Assistant in History. *B. H.* 219 708 Brittingham Pl

PHILLIPS, GEORGE BLANCHARD, Ph.D., Instructor in Philosophy and Psychology. *B. H.* 106 803 State

PHILLIPS, ROY CLEVELAND, M.A., Instructor in Romance Languages. *B. H.* 312 803 State

PHILLIPS, RUFUS SEELEY, B.S., Instructor in Mechanics. *E. B.* 62 14 Langdon

PIATT, DONALD AYERS, Ph.B., Instructor in Philosophy. *B. H.* 104 120 N. Orchard

[5]PLATTEN, ARTHUR JOHN, B.S., Assistant in Agricultural Journalism. *A. H.* 116 625 N. Henry

POMMERENKE, WESLEY THEODORE, M.A., Research Assistant in Zoology. *B. B.* 251 316 N. Lake

POPE, EMMA FEILD, Ph.D., Instructor in English. *B. H.* 355 7 E. Gilman

POPE, MINNIE HENRIETTA, B.A., Assistant in the Department of Debating and Public Discussion, Extension Division. *U. E. B.* 6 853 E. Johnson

POST, ROBERT LEWIS, M.S., Instructor in Agricultural Extension (U. S. Veterans' Bureau Rehabilitation Work) 264 Charles St., Wauwatosa

[5]POTTS, HOWARD W., B.A., Assistant in History. *B. H.* 219 1130 Drake

POUDER, HELEN CATHERINE, M.A., Instructor in English, Milwaukee District, Extension Division. *471 Van Buren St.* 54 Prospect Ave., Milwaukee

PRAY, H. A. HOLDEN, M.A., Assistant in Chemistry. *G. B.* 113 10 S. Orchard

PRESCOTT, FRANK WILLIAMS, M.A., Assistant in History. *Lib.* 125 11 Spooner

PRYOR, MARGARET, M.A., Assistant in Economics. *St. H.* 315 421 Sterling Pl

PUERNER, RUSSELL EDWARD, B.S., Instructor in Machine Design. *E. B.* 315A 1623 Monroe

PURCELL, MARY ELIZABETH, B.S., Extension Specialist in Home Economics. *H. E. B.* 223 329 W. Washington Ave

[5]RAGATZ, LOWELL JOSEPH, M.A., Assistant in History. *B. H.* 209 126 N. Butler

RAGATZ, ROLAND ANDREW, M.S., Instructor in Chemical Engineering. *C. E. B.* 213 126 N. Butler

RAHMLOW, HENRY JOHN, B.S., County Agricultural Representative, Price County. Phillips

RAMSEY, RALPH EDWIN, Ch.E., Instructor in Chemical Engineering. *C. E. B.* 111 621 N. Lake

RANDOLPH, HOWELL SHEPPARD, B.A., Assistant in Anatomy. *Sc. H.* 308 762 Langdon

[5]RANKLIN, EUGENE JOSEPH, M.S., Assistant in Agricultural Chemistry. *A. C. B.* 3 123 N. Orchard

RANKIN, IVA LUCILLE B.A., Assistant in Zoology. *B. B.* 455 234 Langdon

RASMUSSEN, RUPERT HENRY, B.S., County Agricultural Representative, Washburn County. *City Hall* Spooner

RAUBE, HERBERT ALBERT B.S., M.D., Interne. *Bradley Mem. Hosp.* 112 1303 Morris

RAUSHENBUSH, PAUL A., B.A., Assistant in Economics. *St. H.* 315 415 Sterling Pl

REELY, MARY KATHERINE, B.A., Instructor in Book Selection, Library School. *Madison Free Lib.* 11 W. Gorham

REINHOLD, JOHN GUNTHER, Student Assistant in Agricultural Chemistry. *A. B. C.* 132 740 Langdon

[5]REYNOLDS, MRS. MAY STATLER, M.S., Instructor in Home Economics. *H. E. B.* 323 2148 Keyes Ave

RICE, CAROL MARGARET, M.A., Instructor in Physical Education. *Lathrop* 419 Sterling Pl

RICKETT, HAROLD WILLIAM, Ph.D., Instructor in Botany. *B. B.* 107 2017 Kendall Ave

RICKS, MELVIN BYRON, M.A., Assistant in Romance Languages. *B. H.* 312 217 N. Mills

RIEBE, HARVEY AUGUST, Ph.M., Assistant in Education. *B. H.* 108 304 N. Frances

[5]RIKER, MRS. REGINA STOCKHAUSEN, Ph.D., Instructor in Botany. *B. B.* 58 105 N. Spooner

ROBBINS, HOLDEN JOHN, Student Assistant in Anatomy. *Sc. H.* 410 102 N. Orchard

[1]ROBERTS, MORRIS, M.A., Instructor in English. *B. H.* 368

ROBERTSON, ALFRED CRAWFORD, B.S., Assistant in Chemistry. *C. B.* 104 130 Lathrop

RODOLFO, AGUSTIN, B.S., Assistant in Genetics. *A. C. B.* 437 State

ROGAN, WILLIAM JAMES, County Agricultural Representative Marathon County. *First National Bank Bldg.* 1503 Fairmount St., Wausau

ROGERS, LENETTE MAY, M.A., Assistant in Botany. *B. B.* 403 1708 Regent

ROGERS, SAMUEL, G.A., M.A., Instructor in Romance Languages. *B. H.* 308 304 Princeton Ave

[5]RORHBECK, EDWIN HERMAN, Student Assistant in Agricultural Journalism. *A. H.* 116 309 N. Mills

ROLLEFSON, AIMAR HERMO, B.A., Assistant in Physics. *St. H.* 221 25 N. Franklin

ROMBERG, HENRY AUGUST, B.S., Instructor in Pathology. *Sc. H.* 412 1201 Mound

ROSE, REED ALDEN, Instructor in Steam and Gas Engineering. *E. B.* 72 1409 Oakridge Ave

ROTH, HELEN SOPHIA, B.A., Assistant in Accounting. *St. H.* 408x 315 N. Franklin

ROUSE, GLENN FRANCIS, B.A., Assistant in Physics. *St. H.* 221 1915 University Ave

ROWLAND, BEN WRIGHT, B.A., Assistant in Chemistry. *C. B.* 59 223 Clifford Ct

ROWLAND, RUTH MARY, Assistant in the Department of Debating and Public Discussion, Extension Division. *U. E. B.* 6 17 W. Dayton

ROYCE, HARVEY DAY, B.S., Assistant in Chemistry. *C. B.* 102A 621 N. Lake

RUNGE, ALMA MATHILDA, B.A., Reviser, Library School. *Madison Free Lib.* 310 N. Murray

RUSCH, HUGO LEONARD, B.S., Instructor in Electrical Engineering. *Elec. Lab.* 212 119 W. Gorham

RUSHTON, EUGENE ROY, B.A., Assistant in Chemistry. *C. B.* 113 1909 Madison

RUSSELL, MARY VANGEL, B.S., Home Demonstration Agent, Marathon County. 307 Jefferson St., Wausau

RYALL, ERNEST V., B.S., County Agricultural Representative, Adams County. *Court House* Friendship

[5]RYAN, MARION E., M.A., Instructor in English. *B. H.* 353 27 Lathrop

[5]SAFIR, IRWIN CRAUSS, B.A., Instructor in German. *B. H.* 255 200 S. Mills

SALEN, HERMAN ROY, LL.B., Instructor in Business Administration, Milwaukee District, Extension Division. 471 *Van Buren St.* 109 E. Broadway, Waukesha

[5]SALTER, ELIZABETH M., B.S., Assistant State Leader, Boys' and Girls' Agricultural Clubs. *A. H.* 115 141 W. Gilman

SAND, STANLEY E., M.S., County Agricultural Representative, Juneau County. *Court House* Mauston

SANDER, FRANK V., Ph.D., Research Chemist, Public Health Institute. *Wisconsin Psychiatric Institute* Mendota

SANDERS, MAMIE, B.A., Assistant in the Department of Debating and Public Discussion, Extension Division. *U. E. B.* 6 1312 Spaight

SAUNDERS, ARBAHAM RABIE, B.S., Assistant in Genetics. *A. C. B.* 201A 114 S. Orchard

SAUNDERS, ALLAN FREDERIC, M.A., Instructor in Political Science. *S. H.* 25B 1904 Kendall Ave

SAYLE, MARY, B.A., Assistant in Zoology. *B.B.* 455 149 W. Wilson

SCALLON, BRIGHIDIN TRUMBLE, M.A., Instructor in Romance Languages. *B. H.* 312 1105 University Ave

SCALLON, MARGARET, M.A., Instructor in English. *B. H.* 354 424 N. Pinckney

SCHACHT, FRED WILLIAM, B.S., Student Assistant in Anatomy. *Sc. H.* 131 Langdon

SCHAIRER, EVA SOPHIA, B.S., Instructor in Home Economics. *H. E. B.* 115 1610 Adams

SCHELLING, EDWARD WILLIAM, B.S., County Agricultural Representative. Vernon County. *County Normal* 20 314 Minshall Ave., Viroqua

SCHENCK, WILLARD JOHN, B.A., Instructor in Business Adminstration. *U. E. B.* 213 253 Keyes Ave

SCHLICHER, JOHN JACOB, Ph.D., Instructor in English. *B. H.* 370 1116 Mound

SCHMIDT, EMIL GUSTAVE, M.S., Assistant in Agricultural Chemistry. *A. C. B.* 621 N. Lake

SCHMITZ, HENRY LENZEN, M.S., Instructor in Pharmacology. *Sc. H.* 111 1443 Mound

[5]SCHNAITTER, M. Rexford, B.A., LL.B., Instructor in Economics, Milwaukee District, Extension Division. *471 Van Buren St.* 832 Oakland Ave., Milwaukee

SCHNEIDER, MRS. AGNES FULLER, B.A., Assistant in Zoology *B. B.* 253 502 Edgewood Ave

SCHNEIDERS, EDWIN F., M.S., M.D., Instructor in Clinical Medicine (first semester). Associate in Clinical Medicine (second semester). 22-24 *N. Carroll* 136 N. Orchard

SCHUMAN, ROBERT NICHOLAS, Instructor in Forge Practice. *Randall Shops* 603 Stockton Ct

SCHUNK, OLIVER HENRY, B.S., Assistant in Chemistry. *C. B.* 113 614 Langdon

[5]SCHWAB, MABEL LLOYD, B.A., Assistant in English. *B. H.* 361 124 Breese Terrace

SCHWENKER, MARGARET AMELIA, B.S., Assistant in Home Economics. *H. E. B.* 323 1102 W. Johnson

SCOTT, ELEANOR BRYCE, M.A., Assistant in English. *B.H.* 364 324 N. Charter

SCOTT, KENNETH, M.A., Instructor in Classics, *B. H.* 265 803 State

SCOTT, KENNETH LOYAL, B.S., Instructor in Electrical Engineering. *Elec. Lab.* 205 245 Langdon

SELL, GUSTAV ADOLPH, B.S., County Agricultural Representative, Winnebago County. *Court House* R. D. 7, Oshkosh

SELLERS, JAMES LEE, Ph.D., Instructor in History. *B. H.* 209 136 Breese Terrace

SEYFORTH, HARLAN GUY, A.G., County Agricultural Representative, Pierce County. *Court House.* Ellsworth

SHAFER, DAN ALBERT, B.S., County Agricultural Representative, Iron County. *Court House.* 29 Second Ave., Hurley

SHANKS, ELSIE, M.A., Assistant in English. *B. H.* 361 433 W. Gilman

SHARP, WALTER RICE, D.L., Instructor in Political Science. *S. H.* 29 915 University Ave

SHARPE, ROBERT BOIES, M.A., Instructor in English. *E. H.* 354 803 State

SHELDON, JOHN ELLICOTT, County Agricultural Representative, Oconto County. *Classon Bldg.* 123 Superior St., Oconto

SHERMAN, COURTNEY CLARENCE, Ph.B., Assistant in Education. *B. H.* 108 508 S. Mills

SHIELS, KENNETH GRINNELL, M.S., Instructor in Drawing and Descriptive Geometry. *E. B.* 303 1302 Rutledge

SHUMAKER, HELEN LENORE, Ph.B., Assistant in English. *B. H.* 353 428 N. Murray

[5]SIBOLE, MERRITT EBERLY, County Agricultural Representative, Marinette County. *Stephenson Training School.* Park Ridge Ave., Marinette

SIMLEY, OLE ANDREW, M.A., Assistant in Psychology. *B. H.* 12 212 N. Murray

SIMS, SETH D., B.S., Instructor in Animal Husbandry. *A. H.* 208 1319 W. Dayton

SMITH, MRS. AMY HOYT, M.A., Recorder, Extension Division. *U. E. B.* 107 1116 W. Johnson

SMITH, DONALD PUTNEY, M.S., Assistant in Chemistry. *C. B.* 216 614 Langdon

SMITH, EDNA LOUISE, B.A., Assistant in English. *B. H.* 364 15 Prospect Ave

SMITH, ELEANOR DEMPSY, B.A., Assistant in History. *Lib.* 123 151 W. Gilman

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*The president is, *ex officio*, a member of all standing Committees.

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Loans and Undergraduate Scholarships—Professor Olson, chairman; Professors Dickson, B. F. Dodge, Dowling, Goodnight, Millar, Wales, and Mrs. Flett.

Nominations—(Elected), Professors Jones, McGilvary and Rundell.

†*Public Functions*—Professor Olson, chairman; Professors Corp, J. G. Fuller, Larson, and Ogg.

Regent-Faculty Conference—The president of the University, *ex officio; Regents*: Gale, Butler, Callahan, Hirschman, Mahoney, Waters.

Faculty: (elected), Deans Richards, Slichter and Turneaure; Professors Henmon, Hohlfeld, C. K. Leith, Marlatt, Meek, Mendenhall and Root; Associate Professor Hyde; Assistant Professor Roark; Instructor Miss F. E. Allen; Chairman of the University Committee, Professor W. J. Mead, *ex officio.*

Research—Dean Slichter, chairman; Professors Bennett, Bunting, E. B. Hart, Laird, Ogg.

Rooms and Time-Table—Professor C. A. Smith, chairman; Professors Kiekhofer, Kinne, Krauskopf, March, Meek, Mills, Terry, Twenhofel, Wagner, Wickhem, and W. H. Wright.

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

Athletics: Professor Pyre, chairman; Professor T. E. Jones, secretary; Professor Phillips, business manager; Professors J. G. Moore and Kowalke; Miss Trilling, in cases relating to women; E. C. Austin, alumni member; Norman C. Clark, student member.

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

Musical Organizations: Professor Mills, chairman; Professors Morphy and Swinney.

Oratory and Dramatics: Associate Professor Weaver, chairman; Professors Byrne and Gertrude Johnson.

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

Publications: Professor Bleyer, chairman; Professors Gardner and Assistant Dean Glicksman (censor).

Society, Fraternities, and Politics: Professor C. E. Allen, chairman; Professors Root, Woy and Miss Brown.

Training of Teachers—Professor Henmon, chairman; Dean Sellery, *ex officio;* Professors Fiske, Hohlfeld, James, Lenher, H. L. Miller, O'Shea, Overton, Sharp, W. Taylor and Zdanowicz.

University—(Elected), Professors H. C. Bradley, Kowalke, G. L. Larson, W. J. Mead, (chairman) and Page.

War Credits—Dean Sellery.

Wisconsin General Hospital—Dean Bardeen, chairman; Business Manager Phillips; Superintendent Buerki; Drs. Evans, Eyster and Middleton.

CHAIRMEN OF DEPARTMENTS

College of Letters and Science

Anatomy,	Professor Bardeen.
Astronomy,	Professor Stebbins.
Botany,	Professor Overton.
Chemistry,	Professor Mathews.
Classics,	Professor Laird.
Economics,	Professor Kiekhofer.
Education,	Professor Henmon.
English,	Professor Lathrop.
Geology,	Professor C. K. Leith.
German,	Professor Hohlfeld.
History,	Proeessor Paxson.
Industrial Education and Applied Arts,	Professor Griffith*.
Journalism,	Professor Bleyer.
Mathematics,	Professor Van Vleck.
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 Meek.
Physiological Chemistry,	Professor Bradley.
Political Science,	Professor Ogg.
Romance Languages,	Professor Zdanowicz.
Scandinavian Languages,	Professor Olson.
Semitic Languages and Hellenistic Greek,	Assistant Professor Kelly.
Speech,	Associate Professor Weaver.
Zoology,	Professor Guyer.

*Died April 30, 1924.

College of Engineering

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

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,	Pfoessor Halpin.
Soils,	Professor Whitson.
Veterinary Science,	Professor Halpin.

* The president is, *ex officio*, a member of all standing Committees.

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

HISTORY AND GOVERNMENT

Historical Sketch—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 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 possible it 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 ancient languages, mathematics, and philosophy. The college was bitterly criticised. 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 its important effect—that a center and a tradition were created. 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 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 beginning 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 resumed 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 foundation 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 department 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 Chamberlin (1887-1897), 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 ideas 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 College 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 Hstorical Society—a reference lbrary 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 uninteruptedly.

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 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 wth 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.

Place in the Educational System—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.

Support—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 Supplementary 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-eights 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; from Mrs. Fannie P. Lewis for the foundation of scholarships for women; from the late Anna Marston for the establishment of the Anna Marston Fellowship; from the late Calvin K. Jayne, the residue of whose estate is to be used as a loan fund for agricultural students, or for fellowships in the event that the money is not required for loans; and from Horace S. Oakley, Mrs. Mary Oakley Howley, and George Walter Oakley, a fund in honor of their mother to be known as the Jane Oakley Fund, the income to be used to pay the annual contribution of the University of Wisconsin to the American School of Classical Studies at Athens, Greece. 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 of 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. The residue of the estate of the late Torger Thompson is bequeathed to the University to establish a chair in the Scandinavian languages and to assist Scandinavian students attending the University. In 1911 the 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 unused income from this fund

has been transferred to the principal from time to time so that the fund amounted to $45,000 on June 30, 1923.

The late Stephen J. Tripp, of Prairie du Sac, made the University residuary legatee of his estate of approximately $500,000. 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 and restrictions of any kind marks it as a remarkable expression of confidence in the permanent administration of a great public educational trust. The will of the late Mary J. Eichelberger, of Horicon, provided $20,000 for the University, and like that of Mr. Tripp is free from limitations and restrictions.

Government—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 six from the state-at-large, of whom two are farmers and two are from the manual trades. At least two of the members are women, and the President of the University and the 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 ranks 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 capitol, 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 capital in that direction. This building, Bascom 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 Bascom 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 the 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

* See map following title page.

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 acquatic 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 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 Buliding, 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 Bascom 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 Bascom Hall stands is a second summit of the ridge crowned by the Washburn Observatory. On the southern slope of this ridge, below the observatory, have been placed the State Hospital, the Bradley Memorial Hospital and the Student Infirmary.

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 the 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 Experiment 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 land along the shore of the lake to the west, mainly upland 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 new football field and fieldhouse for women were completed in the fall of 1917, and a modern concrete stadium is nearing completion.

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 socalled 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 manufacturers include 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 igenous 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 Missippi 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 late 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 698,000 and the number of pamphlets exceeds 363,000.

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 buildings, erected by the state of Wisconsin, affords most convenient accommodations for students. In the planning of the building, the special 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 manuscript. 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 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

acess 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 education, 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 324,000 volumes and 60,000 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 $2.00 as per statement on page 88. 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 34,000 volumes. The Washburn Observatory is provided with the Woodman Astronomical Library, now containing 3,500 books and 2,500 pamphlets. The Agricultural library of about 23,000 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 234,500 volumes and 251,000 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

it 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 75,000 volumes.

The Legislative Reference Library in the Capitol numbers 50,000 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.

The bee-keeping library of the late C. C. Miller, of Marengo, Illinois, has been transferred to the Agricultural Library and consists of more than one thousand volumes. Bee-keepers throughout the entire world have contributed to the Miller-Memorial Bee-Keeping Library Fund. The income is to be used for the maintenance of the library.

Students are allowed to draw books from the Madison Free Library, a well selected collection of 60,000 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
COLLEGES 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	$15.50
Library deposit required of all students upon entrance, $2.		
COLLEGE OF AGRICULTURE		
Short Course; three terms, per term	17.22	4.17
Short Course Infirmary and Gymnasium fee, per term	.....	1.50
Dairy Course (Winter), per course	41.33	10.00
(Summer) 5 wks. minimum, per term	17.25	6.00
SUMMER SESSION		
Graduate School; Colleges of Letters and Science, Engineering, Agriculture (6 weeks)	.....	22.00
Law School (10 weeks)	.....	35.00
Chemical Engineering (5 weeks)	.....	19.00
Field Courses; geology (4 weeks)	.....	18.00
railroad surveys (2 weeks)	.....	7.00
topographical engineering and surveying (4 weeks)	.....	14.00
Extra weeks beyond the regular session, per week (If not enrolled in preceding S. S., fee will be $5.25 for first week.)	.....	3.25
Auditors pay the same fee as regular students.		
Wisconsin High School	.....	15.00

*This includes an infirmary fee of $3.50

[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. 99. Loans may also be made to needy students. See p. 103.

[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.

	Fee	Deposit
LIBRARY SCHOOL, resident tuition, $25 per semester*	50.00	.....
WISCONSIN HIGH SCHOOL,** per quarter		
6th and 5th classes, resident tuition	$15.00	$ 6.00
4th, 3rd, 2nd, and 1st classes, tuition	15.00	8.00

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 (1923-24) follows. If the cost of materials increases, the charges for 1924-25 will be raised accordingly. A laboratory credit equals two hours per week of laboratory work.

COLLEGE OF LETTERS AND SCIENCE

Botany—Per 2 hours weekly in laboratory.	$1.25	$
Key and breakage deposit, per course	.50	2.25
Except 146	4.00	2.00
Except 147	.....	5.00
Research students	3.00	.....
Chemistry—		
1	12.20	5.30
2	9.80	2.70

For other courses in chemistry, including pharmaceutical chemistry, a fee of from $1.50 to $2.00 per actual laboratory hour per week is charged, depending on the nature of the work.

The deposits for these courses vary from $2.00 to $12.80 per semester, depending on value of apparatus used.

***Economics—Accounting—Materials used**		
Statistics	$1.25	.....
Education		
41, Educational Psychology	1.00	.....
30	10.00	5.00

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

**Four quarters of twelve weeks each constitute the complete year. At present (1923) the high school is in regular session three quarters, and has a six week's summer term.

	Fee	Deposit
Geology—		
1, 3, 4, 9, 133, each	1.50	.....
2, 109, 121, 130, 143, each	1.00	.....
5, (per year)	.50	.....
6, 7, 108, each	6.00	.....
8	*2.00	.....
114, 115, each	3.00	.....
Industrial Education and Applied Arts—		
1, 2, 7	$	$ .....
4, 72	1.50	2.50
5, 20, 21, 22, 24, 54	1.50	4.50
6, 19	1.00	2.00
11	1.00	1.00
18, 50, 57, 63	.75	1.25
31, 33, 34, 35, 43	3.00	.....
36, 37, 38	6.00	.....
51	.75	2.25
56	.75	3.25
60, 130	.50	.....
62, 63	.75	.25
70, 71	1.50	5.50
80	1.50	3.50
131	.50	2.50
132	.50	4.50
Journalism—3 and 8, per credit	$ 1.00	.....
students except freshman taking Journalism courses, per semester	.50	.....
Pharmacy—		
1, per semester	$ 6.50	$5.50
20	5.50	2.50
30	10.00	5.00
121	4.00	2.00
(Pharmaceutical Chemistry, see Chemistry.)		
Physics—Per laboratory credit (first semester).	3.25	....
Second semester	3.00	.....
Psychology—		
10, 103, 104, 105, 115, each	2.00	.....

*$4.00 is microscope is used.

	Fee	Deposit
Zoology—		
1a, 1b, 102, 118, each	5.00	.50
3, 105, 116, each	4.00	.50
9, 21 each	2.00	.50
119	3.50	.50
110, 123, each	3.00	.50
104	7.00	.50
111	10.00	.50
228	5.00	.....
100 (thesis), per laboratory credit	1.50	.....
COLLEGE OF AGRICULTURE—		
Per laboratory credit	1.50	.....
Breakage deposit, per course	.....	2.00
Short Course, per term	2.50	2.00
Dairy Course, winter, per course	10.00	2.00
Summer, per course (minimum five weeks)	5.00	2.00
COLLEGE OF ENGINEERING—		
Assaying (Mining 121), per laboratory credit	5.00	.....
Drawing, 1 and 2	1.00	.....
Other courses, per laboratory credit	3.00	.....
Laboratory thesis, per course	7.50	.....
MEDICAL SCHOOL		
If microscope is used	.....	5.00
Anatomy—		
115, 122, each	$5.00	.....
110	10.00	.....
121, per semester	15.00	$2.50
126	8.00	2.00
Biological Laboratory, per semester	4.00	....
Clinical Medicine—102	7.50	....
103	2.50	....
Pathology—101, first semester	15.00	...
101, second semester	5.00	.....
Medical Bacteriology—102	18.00	....
104, immunity	12.00	.....
Pharmacology—		
105	15.00	2.50

Physiology—2	2.00	....
3	3.00	.....
105	17.00	3.00
115	15.00	2.00
116	8.00	1.00
Physiological Chemistry—104	20.00	5.00
114	14.00	4.00

Other Charges

Extra fee for payment first day after registration days, see p. 93	$3.00
Each succeeding day thereafter	.25
Men's gymnasium locker fee, including laundry, semester	2.00
Women's gymnasium costume, see p. 94	10.00
Women's gymnasium locker fee, including laundry, semester	2.00
Deposit with abstract of doctor's thesis	50.00
Binding baccalaureate or second degree thesis	1.00

For Extension Division charges, see special bulletins.

SCHOOL OF MUSIC—

Concert fee (for academic year)	$1.00
Choral Union fee (for academic year)	1.00
Applied Music, per semester:	
One-half hour of instruction once a week	25.00
One-half hour of instruction twice a week	45.00
Practice rooms, per semester:	
Organ, one hour daily	9.00
Piano, one hour daily	4.00
Supervised Practice (3 times per week)	4.00

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

candidates 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.

Members of the technical staff of the Forest Products Laboratory, technical experts employed in any of the departments of state, staff members of the United States Department of Agriculture stationed at the University and engaged in research, who are candidates for higher degrees, members of the instructional staff not candidates for higher degrees, graduate fellows and graduate scholars—are subject to regulations regarding nonresident fees that are applied under Regent laws to members of the instructional staff who are candidates for higher degrees.

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 three dollars must be paid by students who pay their fees the first day after the prescribed registration days, and twenty-five cents a day for each succeeding day of delinquency thereafter. (*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
Between 4 and 6 weeks..	60	40
Between 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 Service

Men in the freshman and sophomore classes except in the two-year Course in Pharmacy, are required to take gymnastics, or gymnastics and military science. See page 503. In Physical Education, a locker fee, including laundry, of two dollars per semester is charged. For military science a deposit for uniforms of $5.00 is required of each male student entering the university for the first time who elects military training. This deposit is returnable to the student upon completion of the course.

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 1923 was about $10. A locker fee, including laundry, of $2 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 272 students (for details see below) and in two cooperative houses accommodating 38 women. Residents of the cooperative houses 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 $4 to $6 a week. A few double rooms can be secured for $2.50 a week per student, but the more desirable ones rent at $3 to $5 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 $9.00 a week.

The Dean of Men and the Dean of Women make complete lists of approved rooms, and a list of available places will be furnished on request. See page 108.

Chadbourne and Barnard Halls

The two University women's dormitories, Chadbourne and Barnard Halls, are equipped with electric lights 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 daughters 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 $134; of a room accommodating two, $102 per person; of two rooms in suite accommodating two, $134 per person. A few single rooms in Barnard Hall (fifth floor) and three two-room suites on the central corridors may be had for $102 per student.

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 fixed at $225 for the school

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*For several years no rooms have remained after assignments to residents of Wisconsin have been made.

**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.

year of 36 weeks** payable in quarterly installments in advance. 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 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 for the second semester; 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 accept 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 will be ready for occupancy at 8 a. m. Saturday before registration Monday.

Average School Year Expense

It is difficult to give definite figures regarding expenses for the school year but the average is probably not less than $575. This would not include nonresident tuition or any laboratory charges.

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

Incidental Fee, year	$ 30 to $ 30
Locker Fee, freshmen and sophomores	4 to 4
Women's gymnasium suit	8 to 10
Women's dues in the Self-Government Association	1
Books and stationery	25 to 50
Room Rent	100 to 200
Board	216 to 300
Laundry	$30 to $60
Incidental Expenses	50 to 150

*Nonresident tuition, $124.

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 $250 capital. (See also Self-support, below.)

Engineering students must be prepared to meet an expenditure of about $100 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 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' expense will be from $135 to $190 for the course, including room, board, laundry and books.

Summer Session budget items (6 week basis):

†Incidental Fee	$22 to $22
Room Rent	15 to 30
Board	30 to 50
Books and Stationery	6 to 12
Incidental Expenses	5 to 40
Laboratory Charges (depending on course)	.... to 15

*Provisions for remission of nonresident tuition in certain cases are given under "Wisconsin Legislative Scholarships," p. 99.

†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. 93.

SELF-SUPPORT

Students who desire to attend the University on a *partially* self-supporting basis will find it possible. The University Y. M. C. A. supports a Student Employment Bureau at 740 Langdon street, Madison.

Students who find it necessary to earn part of their expenses while at the University should communicate with the general secretary as soon as possible. The bureau is principally called upon to furnish stenographers, typists, clerks, waiters, dish-washers, 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 of any kind are requested to communicate with the Office of the Dean of Women, Lathrop Hall.

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

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

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 Univrsity 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 in whole or in part tuition, but not incidental fees, to a number of needy and worthy nonresident 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 show worth and ability during the first semester. The awarding of these scholarships is entrusted to the regular faculty committee on scholarships to whom application should be made.

American Association of University Women Scholarship—In May, 1917, the Madison branch of the American Association of University Women made available a scholarship of $100 for a university girl, preferably one who has finished her junior year. In 1922 the amount was increased to $200 to provide two scholarships.*

Kate Hughes Cleveland Scholarship—The University is under obligation to Catharine C. Cleveland, '94, of Chicago for a gift of $300 annually, to be awarded as scholarships to needy and meritorious women students, and to be designated as the Kate Hughes Cleveland Scholarships.*

Crucible Scholarship—An honorary junior organization, has provided a scholarship of $50 per annum, available for the first time for the year 1923-24.

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

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.*

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.

Juilliard Musical Foundation Scholarship—The Juilliard Musical Foundation of New York has awarded $800 for the Juilliard Musical Foundation Scholarship for the year 1923-24 and the scholarship has been awarded to Miss Grace M. Jones, of Madison.**

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.*

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.*

Mortar Board Scholarships—Mortar Board, a society composed of senior women, maintains an annual scholarship of $100 which is awarded to a woman student, the award being

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

**For information address Director, School of Music, The University of Wisconsin, Madison, Wisconsin.

made on the basis of scholarship and need of financial assistance.*

The Rhodes Scholarships—A scholarship is of the value of £350 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. For information address, Mr. Arthur B. Doe, Secretary, Wisconsin Committee of Selection for Rhodes Scholarship, 50 Sentinel Building, Milwaukee, Wisconsin.

Self Government Association Scholarship—The Self Government Association, in addition to their loan fund, has provided for a scholarship of $100 per annum. The scholarship for the year 1923-24 was awarded to Miss Anna Kusta.*

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

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

Martha Gunhild Week Scholarship—In December, 1923, the University received $5,000 from the estate of Martha Gunhild Week, of Stevens Point, Wisconsin, to establish the Martha Gunhild Week Scholarship. The income each year is to be awarded to a woman student in the study of chemistry in the University of Wisconsin, the candidate to be named and recommended to the Regents by the faculty of the chemistry department.

Womens Athletic Association Scholarships—The Women's Athletic Association has established a scholarship in the amount of $100 per annum. The scholarship for 1923-24 was awarded to Miss Hazel Miller.*

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*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.

Loan Fund and Student Aids

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 $3,500 and will be increased to $5,000 by the addition of $500 annually.***

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.*

Arthur End Music Loan Fund—In 1919 the Arthur A. End music loan fund was established as a memorial by his mother, Mrs. Mary B. End of Sheboygan, Wisconsin, with an initial payment of $100 to be loaned to students of music.**

John A. Johnson Student Aid Fund—The University is 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 $20,000. The sum obtained by one student in one year shall not exceed $50, and the total amount shall not exceed $200.*

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.*

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

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*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.

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

over to the University to be used as loan fund for the assistance of needy students. By the terms of the gift no one student may secure more than $250 from this fund.*

The Major Lyman C. Ward Memorial Loan Fund—In 1919 a gift of $100 was received for the establishment of the Major Lyman C. Ward Memorial Loan Fund; the money to be loaned to men students only and preferably to undergraduates.**

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. The principal of this fund now amounts to about $1,250.**

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 outstanding balance of the Geneva Loan Fund was consolidated with the Kuppenheimer fund, making a total of $1,500. This is loaned to needy students in small amounts with interest at 6 per cent, after maturity.***

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.**

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 succeednig classes have made substantial additions.*

Class of 1885 Loan Fund—In March, 1916, the class of 1885 established a loan fund, the initial remittance amounting

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

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

***For information address College of Agriculture, The University of Wisconsin, Madison, Wisconsin.

to $58 increased in 1917 to $68; the money to be loaned to needy students.*

Class of 1912 Loan Fund—The Class of 1912 left the balance in the class fund amounting to $850 to establish a loan fund. The money was placed in the University Trust Fund and allowed to accumulate for ten years. The principal of the fund on June 30, 1923, was $1,344.36.*

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 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.*

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.**

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.**

University League Loan Fund—In March, 1916, the League of University Women established a loan fund, the initial remittance amounting to $50. The fund has since been increased from time to time and now amounts to more than $350, the money to be loaned to needy students.*

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*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.

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

Wisconsin Engineer Loan Fund—This fund of $500 is to be known as The Wisconsin Engineer Student Loan Fund and loans are to be made upon recommendation of the Dean of the College of Engineering. Students borrowing from the fund are to be informed as to the source of the money, and a report is to be made each year to the directors of the Wisconsin Engineer, showing the use to which the money has been put. If the Wisconsin Engineer prospers in the future as it has in the past, substantial additions will be made to the fund each year.***

PRIZES

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.

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 freshman English who shall write the best theme, under conditions determined by a committee of the instructors in English 1. The prize for 1922-23 was awarded to Jane G. Cleveland.

Mitchell Prize—In June, 1921, Mr. William M. Chester of Milwaukee, offered a gold medal in memory of John Lendrum Mitchell, to be awarded annually for the best essay on industrial relations. The medal for 1922-23 was awarded to William Haber.

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 Speech has charge of the administration of these prizes.

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 competiton on various bulletin boards.

HONORS

Special honors will be awarded at graduation to such students as have prepared theses of exceptional excellence. For medals awarded for exceptional theses, see page 113.

Sophomore and senior honors are awarded in the College of Letters and Science. See page 158.

GRADE POINT SYSTEM

Under the grade point system, as many points are required for graduation as credits. For grade A, three points are awarded for each credit; for grade B, two points; for grade C, one point; for grade D, no points. For the special regulations in Letters and Science, see page 155.

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 C is necessary for graduation. Students who, by reason of grades of D, fall behind in the required number of points, are ineligible for graduation. By use of points students may readily determine the progress they are making in their course.

AUDITORS

Regular 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. Others may be admitted as auditors only with the consent of the dean. They are required to register, 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" (The Green Book) 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 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. 95), she has prepared a list 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 list of available rooms 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. Women students are advised to make their arrangements for rooms carefully, as engagements for rooms hold for an entire semester, unless a definite arrangement is made for a shorter time. 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 organization, 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 self-government are the Men's Student Senate, and the Woman'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 of 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 and responsible to the Association for the annual dues, one dollar. 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 three 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, sets apart a sum as a loan fund for girls, cooperates with Union Board in arranging social events for the whole university, pays the expenses of the women student's class organization, maintains a loan library, gives $100 to the maintenance of one of the cooperative houses, 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 various occupations and professions. 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 his studies, and the adviser must give his approval before the student is permitted to en-

ter 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. The one of these three societies not in the joint debate each year holds a debate with the Agricultural Literary Society. The 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 Illinois, Iowa, Michigan, Minnesota, Northwestern, and Wisconsin.

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.

The dramatic club, Wisconsin University Players, is composed of both men and women and is open to all students who upon tryout show sufficient ability of a dramatic sort. The club gives several formal productions of legitimate drama during the year. They also give presentations in the nature of practice, known as "Open Meetings," which the public may attend.

Haresfoot Club is composed entirely of men and is devoted to the production of musical comedy, usually original. The parts in any production are always taken entirely by men.

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

Research, Professional, and Honorary Societies

The Language and Literature Club, including both faculty members and advanced students, has been organized to promote scientific study and research in its field. This organization awards a gold medal annually for the best baccalaureate thesis in its field.

A number of professional clubs and societies for the promotion of interest in specific lines of academic or technical work have been organized and are usually maintained under the guidance of the departments concerned. In other departments, where no such organization has been effected, similar results are reached by means of senior and graduate seminaries.

College of Letters and Science

Advertising Club
Arts and Crafts Club
Biological Club
Chemical Club
Commerce Club
French Club
Geology Club
German Club
Graduate Club
Mathematics Club
Pharmaceutical Society
Physical Ed. Club.
Physics Journal Club
Press Club
Sociology Club
Spanish Club

College of Engineering

American Association of Engineers
American Institute of Electrical Engineers
American Society of Mechanical Engineers
Chemical Engineers' Society
Civil Engineers' Society
Engineers' Club
Mining Club
Pentagon Club (Engineering Geology)

College of Agriculture

American Association of Agricultural Engineers
Apis Club (Beekeeping)
Country Life Club (Agric Triangle)
Dairy Science Club
Euthenics Club
Grafters' Club (Horticulture)
Poultry Club
Saddle and Sirloin (Live Stock Club)
World Agricultural Society

Honorary Fraternities

The honorary fraternities with the dates of their establishment at Wisconsin are:

Alpha Gamma Pi (Women's Commerce), 1918
Alpha Kappa Delta (Men's Sociology), 1922
Alpha Pi Epsilon (Women's Sociology), 1922
Alpha Zeta (Agricultural), 1905
Artus (Economics), 1912
Beta Gamma Sigma (Men's Commerce), 1913
Delta Phi Delta (Art), 1921

Delta Sigma Rho (Forensics), 1906
Eta Kappa Nu (Electrical Engineering), 1910
Gamma Alpha (Graduate Scientific), 1910
Gamma Sigma (Gymnastic) 1918
Mu Phi Epsilon (Women's Musical) 1922
Order of the Coif (Law), 1907
Omricon Nu (Home Economics), 1915
Phi Beta Kappa (Academic), 1898
Phi Delta Kappa (Educational), 1921
Phi Kappa Phi (General), 1919
Phi Lambda Upsilon (Chemical), 1906
Phi Mu Alpha Sinfonia (Men's Musical) 1921
Phi Sigma (Biological), 1917
Pi Epsilon Delta (Dramatic), 1919
Pi Tau Sigma (Mechanical Engineering), 1916
Scabbard and Blade (Military), 1905
Sigma Delta Chi (Men's Journalistic), 1911
Sigma Delta Psi (Athletic), 1917
Sigma Sigma (Medical), 1908
Sigma Xi (Graduate Scientific), 1907
Tau Beta Pi (Engineering), 1899
Theta Sigma Phi (Women's Journalistic), 1910

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 nor fees are charged. The Union is active in promoting the social welfare of the student body, and has charge of the biennial Union Vodvil, the quadrennial University Exposition, the musical artists series, and the 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. two secretaries who devote their entire time to religious, social, and philantropic work among the students. Seven student pastors supported by as many re-

ligious 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 University Editor.

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 1921.* Apply to the Registrar for copies of the 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 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 the Commerce Magazine, all published monthly; the Athletic Review, published quarterly; and the Badger, the junior class annual. The Alumni Association publishes the Wisconsin Alumni Magazine.

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*This includes the classes 1849-1919.

ADMISSION

METHODS

Undergraduate students are admitted:

1. Upon examination at the University. (See p. 131).
2. Upon certificate. (See p. 131).
3. Upon evidence of their standing in other institutions of higher learning. (See p. 133).
4. As adult special students. (See p. 138).

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 or the Advanced Standing Committee 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. 93).

ENTRANCE REQUIREMENTS

Entrance requirements are stated in terms of units.* 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 value of such studies. Three recitations a week for a year and a half may be counted as one unit.

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*A "unit" is not to be confused with a "credit," the University measurement of work (See definition of credit on p. 142.

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

*College of Engineering, 1½ units.

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		

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 3 units of foreign language are offered 4 units of English should be required; and if no foreign language is offered units of 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 following:

*Five units if no foreign language is offered.

1. *Bachelor of Arts Courses* (General Course, Course in Commerce, and Course in Journalism). Foreign language graduation requirements are 32 credits in high school and college.*
2. *Bachelor of Science Courses* (Course in Chemistry, Medical Science Course, and Four-year Course in Pharmacy).

   Course in Chemistry—foreign language graduation requirements are 24 credits in French and German.

   Medical Science Course—Elementary Latin, equivalent to two years of high school Latin. Two years of foreign language in college.

   Four-year Course in Pharmacy—24 credits, including one year of French and two years of German or their equivalents. 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.
4. *Course leading to the degree of Ph.B.* (Course for Normal School Graduates). Requires graduation from a state normal school. (see further p. 153).
5. *Course leading to the degree of Bachelor of Music.* Same as B.A. course.
6. *Two-year Course for Supervisor of Music Certificate.* No foreign language required.
7. *Two-year Course in Pharmacy.* No foreign language required.

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). No foreign language required. (Course in Home Economics, and Four-year Vocational Course for the Training of Teachers in Home Economics). Two years of high school foreign language and one or two in college.
2. *Graduate in Agriculture* (Middle Course). No foreign language required.

**Five units if no foreign language is offered.

*A unit in high school equals four credits.

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
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 fifteen 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 Law School Bulletin.)

LIBRARY SCHOOL. Completion of a high school course or its equivalent and also a special examination of all candidates.

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. Two years of foreign language in college are required. Elementary Latin and a reading knowledge of French or German are required. (See Medical School Bulletin.)

Scope of 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:

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 or 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.

*Five units if no foreign language is offered.

The Two Units Required of All

Composition and Rhethoric. Practice in theme writing with instruction in the principles of composition and the forms of discourse must form an important part in 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.

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 no 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, Shakespeare, 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. Shakespeare'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, including the graphical solution of a pair of linear equations with two unknowns, factors, highest common factor, lowest common multiple, solution of quadratic equations.

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, propor-

tion and variation; elementary theory of exponents and radicals; the theory of quadratic equations; graphical representations of simple relations 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, plane geometry.

An aditional half year of *solid geometry* is strongly recommended for students who expect to enter the College of Engineering.

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 double 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, 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

nation, 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 map, 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 to construct units.

PHYSIOLOGY. ½ unit. Human anatomy, histology, and physiology, and the essentials of hygiene. The text book work, equivalen 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), with careful description and drawings. 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 candidats 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, such as Rolfe and Dennison, *Latin Reader*, or Sanford-Scott, *Second Latin Book*.

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; (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.

2 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.

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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. (Chairman, Committee on High School Relations, University of Wisconsin, Madison, Wisconsin.)

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.

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 *Beginner's Book in Norse*, or Michelot'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 works 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.

Agriculture. Plant Production, Agricultural Chemistry, and Soils, 1 or 2; Animal Husbandry, 1; Rural Economics, Farm Management and Farm Mechanics, 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 for which the high school credit toward graduation will be accepted after approval by the Committee on High School Relations, 1 unit.

ADMISSION UPON EXAMINATION

The University offers two admission examinations, one in June and one in September. For dates, see Calendar, p. —. 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. 122ff.

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

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*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 Chairman, Committee on High School Relations, the University will examine the school with reference to placing it upon its accredited list of preparatory schools. 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

(see p. 122, and also a similar examination in algebra in the College of Engineering.

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

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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 Chairman of the Committee on High School Relations 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.

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.

Advanced credit for high school work may be granted to students with satisfactory average standing presenting more than fifteen units accepted for admission, provided: (1) the subjects in which advanced standing 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 two years in college studies offered by the state normal schools of Wisconsin. The credits named below will be given to students who, at the time of entering the college course of the normal school, were fully prepared to enter the freshman class 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 sciences, 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 taken in 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 made at the normal school must be submitted by the 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 credit as follows:

A. *Bachelor of Philosophy (Course or 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 Philsophy (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 Standing 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.

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.

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 a three-year course.

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 graduate or student 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.

Students From Other Colleges and Universities

Students from another institution who have pursued college courses equivalent to those of the University with an average standing of at least *fair* and have honorable dismissal, will be admitted to the University. In the College of Letters and Science if the grades for either of the first two semesters at the University average *fair*, the student will receive credits up to the amount of approximately 30 credits per year for the work at the other institution. Blank forms for transfer of credits are provided by the University. Former students of other institutions can not 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, 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 from 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, Milton College, and Campion 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.

Adult Special Students

Persons of twenty-one years of age who do not possess all of the requirements for admission and are not candidates for a degree may be admitted to the College of Letters and Science or the College of Agriculture upon giving satisfactory evidence that they are prepared to take advantageously the studies open to them. Such students are normally required to select their studies only from courses open to freshmen. If they desire to take a study to which only advanced students of these colleges are regularly admitted, they must show special preparation or aptitude for such course. 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 rarely granted in the Law School and then only to students who can meet the regular entrance requirements to the College of Letters and Science.

Candidates applying for admission on the above basis are required to present to the Registrar in advance of their com-

ing 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 third 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.
Bachelor of Arts, Course in Commerce.
Bachelor of Arts, Course in Humanities.
Bachelor of Arts, Course in Journalism.
Bachelor of Philosophy, General Course.
Bachelor of Philosophy, 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, Chemistry Course.
Bachelor of Science, Chemistry-Commerce Course.
Bachelor of Science, Chemical Engineering Course.
Bachelor of Science, Civil Engineering Course.
Bachelor of Science, Electrical Engineering Course.
Bachelor of Science, Mechanical Engineering Course.
Bachelor of Science, Mining Engineering Course
Bachelor of Science, Applied Arts Course.
Bachelor of Science, Industrial Education Course.
Bachelor of Science, Physical Education Course.
Bachelor of Science, Medical Science Course.
Bachelor of Science, Public Health Nursing Course.
Bachelor of Science, Pharmacy Course, upon graduates from the Four-year Pharmacy Course.

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

(Upon graduation from the two-year courses in Agriculture, students receive the title of Graduate in Agriculture.)

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.

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 take the place of foreign language in whole or in part.

There are also special courses in commerce and journalism, and a new course in humanities leading to special degrees of Bachelor of Arts; in chemistry, chemistry-commerce, pharmacy, medicine, industrial education and applied 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 school graduates, leading to the degree of Bachelor of Philosophy (Course for Normal School Graduates).

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

1. Credits, Military Science, 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 also are required for graduation (See p. 155 for details.) In addition men are required to take physical training or military science and physical training to the extent of four hours per week during the first two years, carrying a total of 8 credits. (For details see Military Science or Physical Education.)

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 science, 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 science 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 secure permission in advance from the dean. In case a student has received a grade of B 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 (exclusive of required military science and physical education) toward graduation in one semester.

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 the Colleges of Agriculture and Engineering, p. 145.

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 prescribes the manner in which the work of the major shall be completed (see statements in connection with announcements of courses offered by the several departments, below); the work required in the major (including thesis) may not be less than 20, and 80 credits must be taken outside the department of the major. See page 144.

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 Tuesday before Commencement and its title will appear in the Commencement program.

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 Tuesday before Commencement.

For regulations excluding certain students from the privileges of writing a thesis or a substitute for the thesis (as defined above) see Classification of Students for Advanced Work and Thesis Purposes, page 156.

3. Concentration and Distribution

All work not included in the required studies of each course is elective. The candidate must have accumulated in the college at least 80 credits for work done outside of any one department, *provided* that in these 80 credits shall be counted, for purposes of this section:

1. Teachers courses not in excess of a total of four credits.

2. First and second year work (not exceeding 14 credits) in a second foreign language in the same department.

4. Election of Studies in the Colleges of Agriculture and Engineering

Candidates for the degrees of B.A. and Ph.B. (General Course) are allowed to elect in the College of Engineering and the College of Agriculture studies in an amount not exceeding 20 credits. The conditions under which these studies may be taken are as follows:

a. Before electing studies in these 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 normally come in the freshman and sophomore years at Wisconsin. (This means, in the case of a candidate for the B.A. degree, that the student must have 58 credits and 58 grade points, and must have completed his two years of English, two of the three requirements in history, mathematics, and science, and four semesters of foreign language *in college*, unless this requirement has been completed earlier, before he may enjoy the privileges of this rule. Candidates for the degree of Ph. B. (Gen. Course) must have been equally industrious in completing the requirements of their course.)

b. Studies in these colleges may be elected only by students who are to spend at least two full years in residence 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 be credited by students who through correspondence study reduce the amount of attendance at the University below two years.

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

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

e. Elections will be subject to the approval of the Dean of the College of Letters and Science. Such approval will be endorsed on the election card in each case in advance, and on the student's permanent record in the registrar's office.

Courses which are parallel to Letters and Science courses will be approved only for special cause. Courses which involve a large manual or routine technical element will ordinarily be approved only as extras. Special consideration, however, will be given to programs directed to a definite educational end.

5. Election of Studies in the Law School

a. Candidates for the degrees of B.A. and Ph.B. (General Course) who satisfy the conditions of section 4, subsections a and b, *above*, may count courses taken in the Law School of this University as free electives toward either of these degrees in an amount not exceeding *twenty-six* credits; provided that the total of all electives from outside this College which may be credited by such students shall not exceed *twenty* credits unless all are restricted to the Law School.

b. Candidates for the degrees of B.A. and Ph.B. (General Course) who were admitted to the Law School of this University as regular or unclassified students before they had satisfied the conditions of section 4, subsections a and b, *above* will be allowed to count *fifteen* law credits or less as free electives toward either of these degrees; provided that the total of all electives from outside this College which may be credited by such students shall not exceed *twenty* credits; and provided further that they must secure at least *forty* credits, acceptable toward such degrees, in residence in this College.

6. Major in Medical Science

A major in medical science is authorized for the degree of B.A. in the general course. (Candidates for this degree may not be registered in the Medical School for more than one year.) In addition to the regular requirements for the degree, the student electing this major shall earn, as prerequisite to it, the following credits:

General Chemistry: At least 8 credits.
Organic Chemistry: At least 4 credits.
Biology: At least 8 credits.
Physics: At least 8 credits.

The work in the major shall consist of at least 20 credits, including thesis, in the medical sciences and 10 of them shall be within a single department of the Medical School.

7. Election of the Library School Course

For conditions under which a student may elect work in the Library School, see pp. 306.

II. Required Studies in the General Course Leading to the Degree of Bachelor of Arts

a. English: Ten credits, as follows: Six credits in composition (three credits per semester for two semesters), to be taken in the first year of residence;* four credits in literature, to be taken normally in the sophomore year. Students securing a grade of A in the first semester of the composition may, if they so desire, omit the second semester of it.

b. Foreign Language: Thirty-two credits in one, two, or three of the foreign languages specified below 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.

Eight credits is the least amount of a foreign language which will be accepted toward the foreign language requirements of any course, and if two or three languages are presented at least sixteen credits must be in one language. Students choosing a foreign-language major must present a second foreign language.

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*On the completion of English 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 required to take additional work in that subject.

French, German, Classical Greek, Hebrew, Italian, Latin, Norse, and Spanish and no other languages may be offered either for entrance or graduation.

c. Two of the following: natural science, 10 credits, *in a continuous year course;* mathematics, 8 credits, history, 6 credits, *in a continuous year course.*

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

d. Major study, thesis, and electives. See statement, p.

Studies 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.

Students may not elect for credit foreign language courses which are equivalent to those they have completed in the high school.

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

Mathematics:

Algebra: 4 credits; one semester.
Trigonometry: 4 credits; one semester.

These courses in mathematics are repeated each semester.

If either of these subjects has been credited in the high school the student will elect the next higher course in college.

Science:

Botany: 5 credits; 2 semesters; 2 lectures, 3 laboratory periods, 2 recitations.

Zoology: 5 credits; 2 semesters; 2 lectures, 3 laboratory periods, 2 recitations.

Biology: A year's course arranged by combining Botany (first semester) and Zoology (second semester), or vice versa.

Chemistry: 5 credits; 2 semesters; 2 lectures, 3 laboratory periods, 2 recitations.

Physics: 5 credits, 2 semesters; 3 lectures, 2 laboratory periods, 2 recitations; or 1 lecture, 2 laboratory periods, 3 recitations.

Geography or Geology: 5 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 and the reports, 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 two foreign languages from Group I, with one subject from Group II; or by taking but one foreign language with two subjects from Group II. 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 departmental heading. Advanced courses in language are open to students of suitable preparation.

English 1, Greek 1, 7, and Latin 1, 2, 3, 4, 6, German 1, 2, 3, French 1, 10, 13, 14, 15, 20, Spanish 1, 10, 14, 15, Italian 1, Hebrew 1, Norse 1, Mathematics 1, 2, 3, 4, 5, 6, Biology 1, Botany 1, 2, Zoology 1a, 1b, Chemistry 1, Physics 1, 31, Geology 1, Geography 4, Astronomy 1, History 1, 5, 10, Industrial Education 1, 2, 50, 51. Only five-credit courses in science can be counted toward the science required for graduation.

Studies of the Sophomore Year

In his sophomore year the student must continue his English (two semesters) and his foreign language (two semesters, unless the requirement is already met), and likewise his history, mathematics, or science (unless this group requirement has been absolved in his freshman year), together with additional Letters and Science courses necessary for a full program.

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, 10 credits (Freshman English plus sophomore composition) *for students who do not elect foreign language in the freshman year.* Six 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.*, 8 credits in mathematics and 12 in science, or 10 credits in mathematics and 10 in science, or 20 in mathematics, or 20 in science, etc.) Only the sciences as approved for the B.A. course will be accepted as meeting this requirement. See p. 148.

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, *to be taken in year courses.*
3. Foreign language, 14 credits. Not more than 8 of these may be in a beginner's course.

d. Major study, thesis, and electives. See p 143. The 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 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 3 credits, history 5, science 5, drawing 3.
   2. English 3 credits, science 5, mathematics 4, history 3.
   3. English 3 credits, science 5, history 3, drawing 3.

b. With foreign language.
   1. English 3 credits, language 4 or 5, history 3, science 5.
   2. English 3 credits, language 4, history 5, mathematics 4.
   3. English 3 credits, language 4, science 5, mathematics 4.
   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 discounted 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 ordinarily enter the B.A. course.

Studies of the Sophomore Year

In the sophomore year the students in this course must complete the specified requirements so far as the time table permits.

IV. Requirements for a Degree in the Course in Commerce

Students who have completed the regular four year Course in Commerce will receive the degree of Bachelor of Arts, Course in Commerce. (See p. 284.)

V. Requirements for a Degree in the Course in Humanities

Students who have completed the regular four year course in Humanities will receive the degree of Bachelor of Arts, Course in Humanities. (See page 290.)

VI. . .Requirements for a degree in the Course in Journalism

Students who have completed the regular four year course in Journalism will receive the degree of Bachelor of Arts, Course in Journalism. (See p. 293.)

VII. Requirements for the Degree of Bachelor of Music. .

Students who have completed the regular four year course in Music will receive the degree of Bachelor of Music. See p. 346.)

VIII. Requirements for the Degree of Bachelor of Science

Students who have completed the regular four year course in Pharmacy will receive the degree of Bachelor of Science, Pharmacy Course. (See p. 300.)

Students who have completed the regular four year course in Chemistry will receive the degree of Bachelor of Science, Chemistry Course. (See p. 275.)

Students who have completed the regular four year Chemistry-Commerce Course will receive the degree of Bachelor of Science, Chemistry-Commerce Course. (See p. 282.)

Students who have completed the regular four year course in Industrial Education and Applied Art will receive the degree of Bachelor of Science, Industrial Education Course or Bachelor of Science, Applied Arts Course. (See pp. 331. 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. 339. School of Education.)

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

Students who have fulfilled the specified 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. Unless otherwise stated, the courses offered in these departments are open for election to any students in the College of Letters and Science who have the prerequisites. 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. The language requirements for the latter degree are laid down for admission to the Medical School. (See Index.)

X. 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 of Admission. (See p. 134.) 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 the requirements are those numbered above 100 on p. 195 of this 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 offering a major on the same conditions as obtain for the B.A. degree. (See p. 143.)

The required work in the course, assuuming that the major, which varies in the different departments, demands 25 credits, amounts to at least 53 credits. The student may not take the 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. 142.) 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

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*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 obtained in advance; nor shall they be taken in the department of the major subject.

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 student to arrange 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 obtained in advance from the dean of the college. This will be granted only when the studies desired correlate with the student's major.

Military science 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 316.

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

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.

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

The general regulations concerning the grade point system are stated on page 107. 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 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 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 25 grade points and at least 25 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.

XII. Classification of Students for Advanced Work and Thesis Purposes

1. *Classification.* At the close of the sophomore year all students in the College of Letters and Science shall be provisionally divided into two groups on the basis of grade points earned during the freshman and sophomore years. Students who have earned at least 50% more grade points than credits by the end of the sophomore year are designated as upper group students. A student's upper group status shall continue throughout the remainder of his college course as long as the total of all grade points earned in college is 50% greater than the total number of credits earned. Upper group status may be established, however, at any time after the sophomore year when the total of a student's grade points is 50% greater than the total of his credits.

2. *Advanced Standing.* Students transferring to the University of Wisconsin from other institutions shall be regarded as upper group students after they have completed one semester of work at this University, earning 50% more grade points than credits.

3. *Advanced Courses.* Upper group students shall at the discretion of departments be eligible for more advanced work than other students.

4. *Thesis.* Upper group students shall comply with the present thesis requirement for graduation. For other students the thesis requirement shall be optional with the major department.

Graduation in Less Than Four Years

Candidates for the bachelor's degree who desire to graduate in three years may usually do so by obtaining 17 or 18 credits per semester after the first semester of the freshman year, and by attending three summer sessions. Permission to take work to this amount will be given to students whose standing in each study is B or above for the preceding semester. 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. A student who expects to shorten his course in this way will necessarily consult his adviser before selecting his studies.

Residence Requirements

Candidates for the bachelor's degree who enter with advanced standing must obtain from the University a minimum of 45 credits, and will therefore ordinarily be in residence (at Madison) for three semesters or for two semesters and two summer sessions. They are permitted, however, to secure 15 of the required 45 credits by correspondence on condition that they secure the remaining 30 credits *in residence for two semesters.* Students who are not in residence for two semesters *may not secure any of the* 45 *credits by correspondence toward graduation,* but must make use of the summer session.

Students are not permitted to take the advanced work of the major study, including the thesis, in another institution or by correspondence. These studies normally culminate in the last year of the undergraduate course and all candidates for degrees must expect to take their senior year in residence.

In special cases the Executive Committee of the College, on application to the dean, may permit a senior, who has finished the work of his major and thesis, to take not to exceed 6 credits in correspondence courses to complete his requirements for the degree.

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.

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 p. 315.

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' work (not less than 60 credits) completed in residence in the University. A student securing during these two years 135 grade points*, plus 1½ grade points for each credit above 60 required in his course, will be awarded Sophomore Honors; a student securing during these two years 165 grade points, plus 2 grade points for each credit above 60 required in his course will be awarded Sophomore High Honors.

Senior Honors and Senior High Honors are awarded on the basis of the academic requirements for the second half of any four-year course. A student securing 135 grade points, plus 1½ grade points for each credit above 60 required in his course for completing the second half, will be awarded Senior Honors; a

student securing 165 grade points, plus 2 grade points for each credit above 60 required in his course for completing the second half, will be awarded Senior High Honors.

The above rule is not to be construed so as to bar any student from securing Senior Honors who has been permitted to carry *more* than the minimum number of credits during the first two years of his course and *less* than the minimum during the last two years.

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," p. 107.

DEPARTMENTS OF INSTRUCTION

ANATOMY

PROFESSORS BARDEEN, MILLER; ASSISTANT PROFESSORS BAST, SULLIVAN; INSTRUCTORS GEIST, OSGOOD; ASSISTANTS HIPPLE, LACEY, OUTHOUSE, RANDOLPH, ROBBINS, SCHACHT.

For Undergraduates and Graduates

110. Histology and Organology. I; 4 cr. Dr. Bast.

115. Mammalian Embryology. I or II; 2 cr. Dr. Bardeen.

120. Anatomy. II; 6 cr. For students of physical education. Dr. Bardeen.

121. Human Gross Anatomy. Yr.; 6 cr. Dr. Bardeen, Dr. Sullivan.

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.

127. Neurology. II; 4 cr. Dr. Bast.

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.

ASTRONOMY

Emeritus PROFESSOR COMSTOCK; PROFESSOR STEBBINS; ASSISTANT HUFFER.

For Undergraduates

1. General Astronomy. I; 3 cr. Open to freshmen. No previous mathematical training required.

6. Navigation and Practical Astronomy. II; 3 cr. Prerequisite: course in trigonometry.

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).

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, 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 an elementary 5 credit course in botany and an elementary 5 credit course in zoology. Introductory to botany, zoology, anatomy, bacteriology, and physiology, and a prerequisite for all advanced work in these departments.

BOTANY

Professors Allen‡, Gilbert, Jones, Keitt, Kraus, Overton, (Chairman); Associate Professor Smith††; Assistant Professors Bryan, Denniston†, Curator Davis; Instructors Anderson, Miss Fisk, Hampton, Rickett, Mrs. Riker; Assistants Cargill, Carlson, Dopp, Durham, Howe, Martin, Rogers, Walker, Wolfson.

Research Assistants, Albert, Lounsbury, Murneek.

Alice Freeman Palmer Honorary Fellow, Miss Addoms.

Fellow, Mr. Weinstein.

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. Botany 1 and 2, an elementary course in zoology, and courses 129 and 130 (primarily for those who intend to teach); or

b. Botany 1, an elementary course in zoology, and a selection from the following: 103, 104, 107, 108, 112, 113, 129, 130, 146.

For Undergraduates

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

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

100. 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 Agricultural Bacteriology 1. Mr. Jones, Mr. Gilbert.

†On leave of absence first semester 1923-24.

‡On leave of absence second semester 1923-24.

††On leave of absence September to December 31, 1923.

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Botany 101. Mr. Keitt.

103. Morphology of Algae, I; 3 cr. Prerequisite: Course 1 or its equivalent. Given in alternate years. Mr. Smith.

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

107. Morphology of Gymnosperms. I; 3 cr. Prerequisite: Course 1 or its equivalent. Given in alternate years. Mr. Smith.

108. Morphology of Angiosperms. II; 3 cr. Prerequisite: Course 1 or its equivalent. Given in alternate years. Mr. Smith.

109. Structure of Economic Plants. Yr.; 3 cr. Prerequisite: Botany 1 and 2. Mr. Kraus.

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

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

112. Morphology of Bryophytes. II; 3 cr. Prerequisite: Course 1 or its equivalent. Given in alternate years. Mr. Allen, Mr. Rickett.

113. Morphology of Pteridophytes. II; 3 cr. Prerequisite: Course 1 or its equivalent. Given in alternate years. Mr. Allen, Mr. Rickett.

***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. Prerequisite: Botany 1. Mr. Rickett.

130. Identification and Classification of Seed Plants. II; 4 cr. Prerequisite: Course 1. Mr. Denniston.

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.

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

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

147. Advanced Plant Physiology. Yr.; 5 cr. Prerequisite: Course 146 or its equivalent and a knowledge of physics and chemistry. Mr. Overton, Mr. Hampton.

150. Cytology. Yr.; 5 cr. Prerequisite: Courses 1 and 2. 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. (Omitted in 1923-24.) Mr. Allen.

For other courses dealing with evolution and heredity, see Courses 6 and 107 in the Department of Zoology, and 101, 104, 105, and 106 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.

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 101 or 104. Mr. Davis.

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

224. Applied Botany. II. Prerequisites: Botany 106, 146. Mr. Kraus.

225. Research in Plant Pathology. Yr.; Mr. Jones, Mr. Keitt, Mr. Gilbert.

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, Daniels, Kemmerer, Schuette, Skinner; Instructors Chisholm, McElvain, Peterson, Wakeman, Wise; Assistants Adams, Brewer, Carswell, Child, Corley, Dickinson, Finzel, Haines, Hartung, Hunt, Julien, Klein, Leininger, Lewis, Ludden, McCracken, McCollum, Mason, Meloche, Newsome, Nichols, Peters, Pray, Robertson, Rowland, Royce, Rushton, Schunk, Smith, Stamm, Steinbring, Steinle, Swartz, Templeton, Thiele, Tosterud, Vanselow, Veazey, Voorhees, Whitford, Wiig, Williams, Wilson, Withrow; Student Assistants Ballam, Manns.

Research Assistants, Hrubesky, Koch, Lazier, Thompson, Wechter.

DuPont Fellow, Mr. Bischoff.

Fellow, Mr. Kraemer.

Scholar, Mr. Koehler.

Major

The requirements for an undergraduate major in chemistry are, in addition to a thesis, at least 30 credits, including course 1, one semester of course 11, 6 credits of course 120, and 6 credits of course 130.

For Undergraduates

1a. General Chemistry. I or II; 5 cr. Mr. Walton, Mr. Krauskopf, Mr. Peterson, and staff.

1b. General Chemistry and Qualitative Analysis. II; 5 cr. Mr. Walton, Mr. Krauskopf, Mr. Peterson, and staff.

2a. General Chemistry. I or II; 4 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Chisholm, and staff.

2b. General Chemistry. II; 4 cr. For freshmen in engineering. Mr. Kahlenberg, Mr. Chisholm, and staff.

10. Mathematical Chemistry. I; 3 cr. Prerequisites: Algebra, trigonometry, and Chemistry 1 or 2. Mr. Daniels.

11. Quantitative Analysis. Yr.; 3 to 5 cr. Prerequisite: General chemistry, including qualitative analysis. (First

semester of Chemistry 11 repeated in second semester.) Mr. Lenher, Mr. Kemmerer, and staff.

12. Quantitative Analysis. I; 3 cr. For agricultural students only. Prerequisite: General chemistry, including qualitative analysis. Mr. Lenher and staff.

14. Quantitative Analysis. I; 5 cr. For engineering students only. Prerequisite: General chemistry, including qualitative analysis. Mr. Kemmerer and staff.

15. Quantitative Analysis. II; 2½ cr. For pharmacy students only. Mr. Wise.

17. Inorganic Preparations. II; 2 or more cr. For pharmacy students only. Mr. Wise.

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

26. Inorganic Pharmaceutical Chemistry. I; 4 cr. Required of students in pharmacy. Prerequisites: Chemistry 1, 15, and 17. Miss Wakeman.

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

30. Physical Chemistry. II; 3 cr. For chemical engineering students. Mr. Mathews, Mr. Daniels, and staff.

40. Plant Chemistry. Yr.; 3 cr. Prerequisite: Botany 1; Chemistry 20, 120, or concurrent registration. Supplementary to Botany 132. Miss Wakeman.

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

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.

100. Senior Thesis. Yr.; 2 cr. Staff.

For Undergraduates and Graduates

106. Advanced Quantitative Analysis. A continuation of chemistry 11. Mr. Lenher.

107. History of Chemistry. I; 2 cr. Prerequisite: Chemistry 11, 120, or concurrent registration. Mr. Kahlenberg.

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

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

116. Industrial Organic Analysis. I or II; cr to be arranged. Prerequisites: Chemistry 11 and 120. Mr. Schuette.

117. Inorganic Preparations. II; cr. to be arranged. Prerequisite: Chemistry 1a or 2a Mr. Kemmerer.

118. Iron and Steel Analysis. Prerequisite: Chemistry 11a or 14. Mr. Kemmerer.

119. 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. Prerequisite: Chemistry 120. Mr. Fischer, Mr. Adkins, Mr. McElvain, Mr. Skinner.

123. Characterization of Organic Compounds. II; 3 or 4 cr. Prerequisite: Chemistry 120. A study of homologous reactions, separation, and identification of organic compounds. Designed as an aid to research involving organic compounds. Mr. Skinner.

124. Advanced Survey in Organic Chemistry. Yr.; 2 cr. Prerequisite: Chemistry 120. Mr. Adkins.

126. Chemistry of Coal-Tar Dyes. II; 2 cr. Prerequisite: Chemistry 120. Mr. Fischer.

127. Synthetic Organic Remedies. Cr. to be arranged. Prerequisite: Chemistry 27 and 20 or 120. Miss Wakeman.

128. Chemistry of Organic Nitrogen Compounds. I; 2 cr. Prerequisite: Chemistry 120. Mr. Fischer.

130. Physical Chemistry. Yr.; 5 cr. Prerequisites: Chemistry 1 and 11, and Physics 1 or 31. Mr. Mathews, Mr. Daniels, and staff.

131. Electrochemistry. II; 2 cr. Prerequisite: Chemistry 130. (Omitted 1924-25.) Mr. Daniels.

132. Thermal Chemistry. I; 2 cr. Prerequisite: Chemistry 130. (Omitted 1924-25.) Mr. Mathews.

133. Photochemistry. I; 2 or more cr. Prerequisite: Chemistry 130. Mr. Mathews.

135. Chemistry of Solutions. Yr.; 2 to 5 cr. Prerequisite: Chemistry 130. (Omitted 1924-25.) Mr. Kahlenberg.

136. Relation of Physical Chemistry to other Sciences. II; 2 cr. Prerequisite: Chemistry 130. Mr. Kahlenberg.

137. Colloids. II; 2 to 5 cr. Prerequisite: Chemistry 130. Mr. Mathews.

144. Thermodynamics as Applied to Chemistry. II; 2 cr. Prerequisites: Chemistry 130 and a course in calculus. Mr. Daniels.

146. Chemistry of Foods and their Adulterations. II; 2 cr. class; 1-3 cr. lab. Prerequisites: One semester's work each in Chemistry 11 and 120. Mr. Schuette.

161. The Phase Rule. I; 2 cr. Mr. Walton.

162. Chemical Dynamics. I; 1 cr. (Omitted 1924-25.) Mr. Walton.

For Graduates

209. Lives of Great Chemists. II; 1 cr. Mr. Kahlenberg.

217. Inorganic Preparations. II; cr. to be arranged. Prerequisite for research in inorganic chemistry. Mr. Lenher, Mr. Kemmerer.

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

224. Advanced Organic Chemistry. 2 cr. Lectures. A cycle of four semesters which students may enter any semester. Mr. Fischer.

235. Advanced Physical Chemistry. II; 2 cr. Prerequisite: Chemistry 130. Mr. Daniels.

237. Research in Physical Chemistry. Prerequisite: Chemistry 130. Mr. Mathews, Mr. Daniels.

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

239. Seminary in Physical Chemistry. Yr.; 1 cr. Prerequisite: Chemistry 130. Mr. Mathews.

241. Advanced Plant Chemistry. Yr.; Mr. Kremers.

242. Research. Special reference to the chemistry of foods. Mr. Fischer, Mr. Schuette.

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

247. Seminary in Organic Chemistry. Yr.; 1 cr. Mr. Fischer, Mr. Adkins, Mr. Skinner.

251. Advanced Inorganic Chemistry. Yr.; 2 cr. Lectures alternate with Chemistry 255. Mr. Lenher.

253. Research in Inorganic Chemistry. Yr.; cr. to be arranged. Mr. Lenher, Mr. Kemmerer.

255. Advanced Inorganic Analysis. Yr.; 2 cr. Lectures. (Omitted 1924-25.) Alternates with Chemistry 251. Mr. Lenher.

256. Research in General and Physical Chemistry. Mr. Walton, Mr. Krauskopf.

257. Chemical Research. Mr. Kahlenberg.

263. Seminary in General Chemistry. Yr.; 1 cr. Mr. Walton, Mr. Krauskopf.

CLASSICS

Emeritus Professor Smith; Professors Laird (Chairman), Showerman, Slaughter††; Associate Professor Fiske; Assistant Professor K. Allen; Instructors Guyles, K. Scott; Assistants Clauson, Pedersen.

Adams Fellow, Mr. Hopkins.

University Fellows, Miss McConnell, Miss Scott.

Scholar, Miss Sullivan.

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 1-4 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. Courses 105-122 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 90 and 107 are required of all students who desire the University Teachers Certificate in Latin.

III. Courses 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.

††Deceased, Dec. 29, 1923.

Greek or Latin Majors

The requirements for a major in Greek or Latin are twenty-four credits as a minimum, not including Greek 1 or Latin 1 to 4 Greek 20, 105 and 106, to the extent of six credits may be counted toward a major in Latin. At least six credits in addition to the thesis should be chosen from courses 105 to 122, but no specific requirement of courses is made. (See page 322 for requirements for Teachers Certificate.)

GREEK

For Undergraduates

1. Elementary Greek. Yr.; 4 cr. Mr. Laird.

7. Xenophon and Homer. Yr.; 3 cr. Mr. Laird.

10. Homer and Plato. Yr.; 3 cr. Mr. Laird.

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

20. Demosthenes and Thucydides. Yr.; 3 cr. Prerequisite: Course 10 or equivalent. Mr. Fiske.

For Undergraduates

105. Greek Lyric Poets. Yr.; 3 cr. Prerequisite: Greek 20 or equivalent. Mr. Showerman.

106. Greek Dramatic Poets. Yr.; 3 cr. Prerequisite: Greek 20 or equivalent. Mr. Showerman.

107. Greek Historians. Yr.; 2 cr. Prerequisite: Greek 20 or equivalent. Mr. Laird.

108. Plato. Yr.; 2 cr. Prerequisite: Greek 20 or equivalent. Mr. Laird.

109. Greek Orators. Yr.; 2 cr. Prerequisite: Greek 20 or equivalent. Mr. Laird.

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

112. General Survey of Classical Life and Letters. (Latin 112.) Yr.; 1, 2, or 3 cr. Mr. Showerman.

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

122. Classical Art. (Fine Arts 122.) Yr.; 1, 2, or 3 cr. Mr. Showerman.

For Graduates

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

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

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

230. Greek Seminary. Yr.; 2 cr. In 1924-25 the subject will be Homer. Mr. Laird.

LATIN

For Undergraduates

1. Elementary Latin. I or II; 5 cr. Mr. Scott, Mr. Clauson, Miss Pederson, Miss McConnell.

2. Caesar. I or II; 5 cr. Mr. Scott, Mr. Clauson, Miss Pedersen.

3. Cicero. I or II; 4 cr. An additional hour for those who desire prose composition. Mr. Clauson, Miss Pedersen.

4. Virgil's Aeneid, I-VI. I or II; 4 cr. Mr. Scott.

6. Cicero, Virgil, and Livy. Yr.; 4 cr. Mr. Fiske, Miss Allen.

7. Horace, Catullus, and Martial. Yr.; 3 cr. Miss Allen.

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.

90. The Teaching of Latin in Secondary Schools. II; 2 cr. Prerequisite: Senior standing. Miss Guyles.

For Undergraduates and Graduates

107. Prose Composition. Yr.; 1 cr. 2 cr. if an additional elective hour of lectures on syntax is taken. Prerequisite: Latin 6. Mr. Fiske.

108. Cicero's Letters. I; 3 cr. Prerequisite: Latin 7. Mr. Showerman.

109. Roman Drama. II; 3 cr. Prerequisite: Latin 7. Mr. Showerman.

110. Lucretius. II; 3 cr. Prerequisite: Latin 7. Mr. Showerman.

111. Virgil's Aeneid, VII-XII. I; 3 cr. Prerequisite: Latin 7, Mr. Fiske.

112. General Survey of Classical Life and Letters. Yr.; 1, 2, or 3 cr. Greek and Latin not essential. Mr. Showerman.

114. Roman Philosophy. II; 2 cr. Prerequisite: Latin 7. Miss Allen.

118. Roman Satire. Yr.; 2 cr. Prerequisite: Latin 7. Mr. Fiske.

119. Roman Historians to Tacitus. Yr.; 2 cr. Prerequisite: Latin 7. Mr. Fiske.

190. Background of High School Latin. II; 2 cr. Prerequisite: 20 credits of undergraduate Latin. Miss Guyles.

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.

229. Paleography and Epigraphy. Yr.; 2 cr. Mr. Fiske.

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

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

233. Latin Seminary. Yr.; 2 cr. In 1924-25 the subject will be Virgil. Mr. Fiske.

COMPARATIVE LITERATURE

COMMITTEE IN CHARGE: PROFESSORS OLSON, ZDANOWICZ; ASSOCIATE PROFESSORS DODGE (Chairman), FISKE, MORGAN.

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 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 must consult the chairman, since each case requires a special arrange-

ment of studies, which involves the election of courses not on this list.

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.

For Undergraduates

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

67. Contemporary Drama. Yr.; 2 cr. Does not count toward the English major. Mr. Pyre.

68. Contemporary Novel. Yr.; 2 cr. Does not count toward the English major. Mr. Beatty.

75. German Classics in English Translation. Yr.; 2 cr. Mr. Hohlfeld.

For Undergraduates and Graduates

102. Renaissance Epic. II; 2 cr. Does not count toward the English major. Mr. Dodge.

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. Mr. Morgan.

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

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

For Graduates

248. Medieval Literature. Mr. Reed.

For Anglo-Saxon relations, see German 248.

ECONOMICS

Professors Commons†, Elwell, Ely, Gardner, Gillin, Gilman, Hibbard, Kiekhofer (Chairman), Macklin, Ross, Scott; Associate Professors Kolb, Lescohier, McMurry, McNall; Assistant Professors Glaeser, Jamison, Jerome††, Miller, S. Perlman; Lecturers Beecher, Witte; Instructors H. F. Clark, H. I. Clarke, Dittmer, Fellows, Frye, Gibson, Hensey, Hinman, Mertzke, J. Perlman; Assistants Beaver, Blanchard, Bohlman, Bridgman, Clague, Colbert, Fox, Givens, Jones, Knight, Pryor, Roth, Raushenbush, Thomas, Troxell.

Research Associates Shine, Simpson, Wehrwein; Research Instructors Dorau, Morehouse.

Fellows, Mr. Elliott, Mr. Turney-High, Mr. Wiley.

Scholars, Miss Campbell, Mr. Kohler.

Organization

The Department of Economics, administratively organized in the College of Letters and Science and in the College of Agriculture, is also a member of the Division of the Social Studies, including the Departments of Economics, History, Philosophy, Political Science, and the School of Law. This division has been established for the encouragement and supervision of graduate and research work in the social studies.

Requirements for 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 109 (Commercial Law) may be taken in addition to the maximum of forty credits.

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

†On leave of absence first semester 1923-24.

††On leave of absence 1923-24.

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

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

Lower group students, i. e. students who fail to earn fifty per cent more grade points than credits, are barred from writing a thesis and from rights and privileges as to courses which upper group status confers.

The thesis may be written in any one of the fields designated in Groups II-XI as described on pages 189-190, 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 130 (Statistics).
15 credits selected from Group XII (Sociology).
4 credits for the thesis.
4 additional credits in economics.

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

Lower group students, i. e. students who fail to earn fifty per cent more grade points than credits, are barred from writing a thesis and from rights and privileges as to courses which upper group status confers.

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 p 288ff of this catalogue and in the special bulletin of the Course in Commerce.

Requirements for the Master's Degree

Candidates for the master's degree in either economics or sociology must have the preparation indicated below:

I. UNDERGRADUATE

1. **Economic theory:** a semester and preferably a year course devoted to a general survey of economic principles and problems.
2. **Special fields:** Seven semester courses in addition to the above, distributed among two or more fields such as economic theory, agricultural economics, accounting, business administration, insurance, labor, land economics, private finance, public finance public utilities, sociology, statistics.

Candidates who have not done such an amount of undergraduate work, but who have through practical experience and private study mastered any courses ordinarily included in these fields may apply for special examinations in such fields, and if successful, may correspondingly reduce the undergraduate semester course requirements.

Candidates who cannot offer the fair equivalent of these undergraduate requirements are expected to devote more than one year to preparation for the degree.

II. GRADUATE

1. A year of graduate work, nine to twelve hours of course and seminary work being considered a full schedule.
2. Candidates are required to present from the courses offered by the Department as minimum, a number of graduate credits equal to one-half of the total graduate credits offered in support of the candidacy for the degree.
3. If statistics is not offered as undergraduate work, a semester course in statistics.
4. At least one course, preferably in the field of the candidate's major, must be a course or seminary open only to graduate students, and such course or combination of courses shall be carried for one year.
5. A thesis on some subject in the candidate's major field or a formal seminary paper. The requirement will be waived if the candidate has received

honors on a thesis presented at the University of Wisconsin for a baccalaureate degree.

6. Candidates will be recommended for the degree provided they pass a satisfactory examination, and provided all their grades during the year of graduate work for the degree averaged "good". (Should a candidate receive a grade of "fair" in any course it must be balanced by a grade of "excellent" in some other course to render the candidate eligible for the degree.)
7. With the approval of the Graduate Committee written examinations for the master's degree will be held.
8. Candidates are expected on the basis of their 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 II-XII. The credits to be offered must be selected in conference with the major professor.

Requirements for the Doctor's Degree

Candidates for the degree of doctor of philosophy, majoring in the Department of Economics, will be examined in seven fields selected from the following three groups in the manner suggested.

GROUP A—GENERAL

(All four fields required of all)

1. Economic theory; 2. History of economic thought; 3. Statistics; 4. History of economic or social institutions.

The examination in the history of economic thought for sociology majors may, at their option, be limited to a specified period.

GROUP B—MAJOR

(One to be selected)

1. Agricultural economics; 2. Accounting and business administration; 3. Finance, private and public; 4. Labor; 5. Land economics; 6. Public utilities; 7. Sociology.

(Other fields can be substituted in special cases and specialization in any Group A field can be substituted.)

GROUP C—MINORS

(Two to be selected)

1. Ancient history; 2. Medieval European history; 3. Modern European history; 4. English history; 5. American colonial history; 6. United States history; 7. History of philosophy; 8. Ethics; 9. Logic; 10. Metaphysics; 11. Psychology; 12. History of political thought; 13. Comparative government; 14. International law; 15. Diplomacy (Organization and Practice); 16. World politics; 17. American national government and constitutional law; 18. State and local (including Municipal) government; 19. Administrative law; 20. Legislation; 21. Roman law and general legal history; 22. Agency; 23. Contracts; 24. Crimes; 25. Real and personal property; 26. Torts.

Fields in other departments may be substituted if the Department approves. Economics candidates may select a sociological field as one of their minors, and sociology candidates may select an economics field as one of their minors, but if such choice is made, they must offer a second minor outside both economics and sociology.

1. Preliminary Preparation. Candidates for the Ph.D. degree in the Department of Economics are assumed to be prepared by undergraduate studies to undertake advanced work in their major subject. If they are notably deficient in their preparation (taking the undergraduate major as a basis for judgment), the deficiency must be made up during the first year of graduate work, without counting toward the higher degree.

2. Thesis. The degree of Ph.D. in economics will be awarded only after examinations testing the scholarship of the candidate in major and minor subjects, and upon presentation of a sound thesis based on individual research. The thesis must be in good literary and technical form, ready for the printer. At least thirty days before the candidate's final examination, it must be submitted for approval by a reading committee appointed by the Dean of the Graduate School.

3. Examinations. (a) A preliminary examination, in part at least written, shall be taken by the candidate not less than twelve months in advance of the date at which the degree is expected to be awarded. This examination will normally cover all of the candidate's major and minor fields. However, by agreement between the candidate and the minor department, or departments, concerned, the examination in either or both of the minor fields may be taken in advance of the examination in the major fields; or it may be postponed to a date not more than three months after the major examination, but under the rules of the graduate school it must be held at least twelve months in advance of the final examination. In any event, the candidate must be examined in writing, at some time, in all of his fields, in addition to such examinations as may be taken in courses. For students who come to Wisconsin for only their last year of graduate work arrangements will be made whereby the preliminary examinations can be taken in the early part of the year.

(b) The preliminary examination is designed to reveal the extent and thoroughness of the candidate's preparation, and to aid in determining the character and emphasis of his further studies. In the major fields it will assume both broad and intensive information and understanding, without reference to particular courses of study. In the minor fields it will relate somewhat closely to courses of study which the candidate has pursued.

(c) If the department in which a field lies decides (1) that the candidate has completed all of the work in this particular field that has been asked and can reasonably be expected of him, and (2) that he has shown by examination a mastery of the field adequate for the doctorate, he will be relieved of further examination in this field. This provision, however, shall not apply to the field in which the thesis is written.

(d) The final examination will cover (1) the thesis and the field in which it lies, and (2) all other fields (major and minor) not eliminated under the terms of the preceding rule. This examination will be, at least in part, oral and in the presence of a committee named by the dean of the graduate school. A clear and exact statement of the scope of the ex-

amination will be placed in the hands of the chairman of the examining committee by the chairman of the major department.

Economics and Special Professional Courses

COURSE IN COMMERCE

The importance of professionally trained men and women for business was recognized in the establishment of the Course in Commerce in 1900. Its work extends over four years and 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 p. 284ff. of this catalogue and the special Bulletin of the Course in Commerce.)

INDUSTRIAL RELATIONS

The Department of Economics, in cooperation with the Industrial Commission of Wisconsin and the Extension Division of the University, has arranged a sequence of courses preparing for the profession of employment management with business concerns, or for such positions as factory inspectors, statisticians, and special investigators with state and federal departments concerned with industrial and agricultural labor, or as employment agents in 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.

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 provides opportunities for practical work in safety and sanitation, handling child labor permits, and in reports and statistics required of employers, covering accidents, compensation, wages, etc.

Before or after taking these courses the student must demonstrate his personality and fitness by serving for a time, usually at his own expense, as an assistant to a recognized industrial service manager in an establishment carrying on this work. Employers in such establishments are usually willing to furnish this opportunity to properly recommended applicants.

The time and expense needed to get this practical experience will depend on the individual. Persons desiring to register for this apprenticeship may do so with the Secretary of the Industrial Commission, Madison. Selection of courses should be made on consultation with Professor Commons.

The Department of Economics recommends that those who plan to take this course should make their elections in the sophomore year in the course in Elements of Economics.

A suggested sequence of courses is as follows:

Sophomore Year

Elements of Economics (Economics 1a and 1b).
First Aid to the Injured (Physical Education 16).

Junior and Senior Years

Statistical Method (Economics 130).
Economic Statistics (Economics 132).
Labor Market, Industrial and Agricultural (Economics 174).
Americanization, Industrial and Educational (Economics 170).
Labor Problems (Economics 122).
Capitalism and Socialism (Economics 144).
American Labor History (Economics 145).
Foreign Labor Movements (Economics 148).
Labor Legislation (Economics 123).
Introduction to the Constitution (Political Science 112).
General Sociology (Economics 140).
Poverty and Relief (Economics 141).
Wages, Prices, and Cost of Living (Economics 131).

Special Courses

Employment Management (Economics 171).
Job Analysis (Industrial Education 120).
Property Insurance (Economics 121).
Technique of Field Investigation (Economics 175).
Employee Training (Industrial Education 121).
Vocational Psychology (Psychology 115).

Correction of Speech Disorders (Speech 25).
Mental Tests (Education 244).
Industrial Housing (City Planning 102).
Shop Practice (Engineering College).
Theses in Labor Legislation, Labor Problems, Labor History, Labor Market, Industrial Management (Economics 100, Mr. Commons, Mr. Witte, Mr. Perlman and Mr. Lescohier).

SOCIAL WORK

The demand for trained workers has been increasing in the various fields of social service, such as family welfare societies, child welfare societies, mothers' pension departments and probation departments of courts, juvenile protective associations, school attendance departments of the public schools, and visiting teachers. For a number of years graduates of the University of Wisconsin who have majored in sociology have found ready entrance into some of the social agencies where they could find opportunity for training while serving their apprenticeship. This process, however, was a slow one and has some serious drawbacks. Hence, the Department of Economics has attempted to suggest a coordination of courses given in various departments of the University which provide background for training for social work while the student is securing a liberal education. A number of courses provide not only cultural discipline, but also specific training in social service. At present a student can get the work usually given during the first year in a professional school of social work while fulfilling the undergraduate requirements for a degree from the University. The graduates who take the courses suggested in the sequence below either go directly into a social agency as visitors in training or take another year in a professional school of social work.

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:

Sophomore Year

Elements of Economics (Economics 1a and 1b).
Social Origins (Economics 46).
Newspaper Reporting (Journalism 2).
Community Recreation (Physical Education 80).
Elements of Public Speaking (Speech 7).
Introduction to Home Economics (Home Economics 1).
Care and Feeding of Children (Home Economics 47).

Junior Year

Poverty and Relief (Economics 141).
Criminology and Penology (Economics 161).
Rural Life (Economics 25).
Statistics (Economics 130).
Social Psychology (Economics 139).
Social Problems (Economics 4).
Correction of Speech Disorders (Speech 25).
Heredity and Eugenics (Zoology 6).

Senior Year

General Sociology (Economics 140).
Methods of Social Case Work (Economics 147).
Principles of Social Service (Economics 164).
Social Agencies and Social Legislation (Economics 177).
Principles of Social Organization and Administraton (Economics 178).
Advanced Correction of Speech Disorders (Speech 125).

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.

LAND ECONOMICS

The Department of Economics in cooperation with the Institute for Research in Land Economics and Public Utilities, and various other departments of the University, has arranged a combination of courses which relate to land as an economic factor in production and distribution.

The aim is to arrange a course of study that has cultural value as well as giving practical preparation for a variety of

occupations. The work in Land Economics and related courses, is arranged to prepare the student for entry into the real estate business, land credit work and the administration of landed property. The course of study may be shaped to emphasize the economics of urban, agricultural, forest or mineral lands. Each of these may again be approached from the professional or cultural point of view. In any case, the emphasis is upon the economic aspects of land ownership, tenancy, utilization, purchase and sale.

The following arrangement of courses is only suggestive. There will naturally be variation in accordance with the special purpose and interest of the student whose needs will be considered in consultation with his adviser. The courses are all open to students from other colleges and courses, so that it is possible for the student in agriculture, mining or engineering to study the economics of their specialty and the commerce student to specialize in real estate.

The first two years of work of those desiring a undergraduate major, should be devoted mainly to studies of a liberal character and preparatory for specialization in the junior and senior years. It is suggested that courses in geography, geology or chemistry be taken in satisfaction of the science requirements. In the sophomore year Economics 1a and 1b or Agricultural Economics 1 should be taken as prerequisite to the advanced courses in economics.

Students wishing to specialize in Land Economics are advised to take the following courses offered by the Department of Economics:

Elements of Economics (Economic 1a and 1b or Agricultural Economics 1); Statistics (Econ. 130); Evolution of Industrial Society (Econ. 120); Outlines of Land Economics (Econ. 117); Urban Land Economics (Econ. 179); Economic Institutions (Econ. 118); Land Problems (Econ. 226); and Cost and Income in Land Utilization (Econ. 221).

The following courses are suggested as electives: Public Utilities (Econ. 142); Rural Life (Econ. 25); Marketing of Farm Products (Econ. 128); Money and Banking (Econ. 5); Corporation Finance (Econ. 137); Taxation (Econ. 124); Agricultural Geography (Geography 106); Advanced Economic

Geography (Geography 127); Economic Aspects of Geology (Geology 113); Economic Aspects of Mining (Mining 150); Origin and Classification of Soils and Agricultural Climatology (Soils 125); Forestry (Forestry 101); Landscape Gardening (Horticulture 6); Rural Improvement (Horticulture 126); City Planning 101, 102, 103.

Special attention is given to graduate students who are preparing for the master's or doctor's degree or who are studying without reference to a degree. Students wishing to major in Land Economics are strongly urged to take a five year course leading to an M.A. degree. Opportunities will be afforded for special research in marketing and cooperation, land settlement, land tenure, land valuation and taxation, urban land problems, and rural and city planning.

Inquiries should be addressed to Professor Richard T. Ely.

AGRICULTURAL ECONOMICS

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. 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. ECONOMIC THEORY AND ITS HISTORY

1a. Elements of Economics. I or II; 4 cr. Economic struggle, production, value and distribution, labor in industry. Prerequisite: Sophomore standing. Mr. Kiekhofer, Mr. Miller, and staff.

1b. Elements of Economics. I or II; 4 cr. Exchange, consumption, public finance, economic policies. Prerequisite: Economics 1a. Mr. Kiekhofer, Mr. Miller, and staff.

118. Economic Institutions. I; 3 cr. Prerequisite: Economics 1b. Mr. Glaeser.

143. Public Value. I; 3 cr. Prerequisite: Economics 1a and senior standing. Mr. Commons.

199. History of Economic Thought. I; 3 cr. Prerequisite: Economics 1b. Mr. Ely, Miss Shine.

200. [1]The Classical Economists. I; 3 cr.; II; 1 cr. Prerequisite: Economics 1b. (Omitted 1924-25.) Mr. Scott.

201. [1]Critics of the Classical Economists. I; 3 cr.; II; 1 cr. Prerequisite: Economics 1b. Mr. Scott.

202. [1]The Austrian School and Recent Developments. I; 3 cr.; II; 1 cr. Prerequisite: Economics 1b. (Given 1923-24.) Mr. Scott.

210. Value and Valuation. Yr.; 2 cr. (May be taken more than once with consent of instructor.) Mr. Commons.

220. Property and Contract. I; 3 cr. Mr. Ely.

222. Custom and Competition. I; 3 cr. Mr. Ely.

223. Monopolies and Trusts. II; 3 cr. Mr. Ely.

250. Advanced Economics. I; 2 cr.; II; 2 cr. Mr. Kiekhofer.

267. Round Table in Economic Theory. Yr.; 2 cr. Prerequisite: one year of graduate work. Mr. Ely.

II. AGRICULTURAL ECONOMICS

25. Rural Life. I; 3 cr. Prerequisite: Sophomore standing Mr. Kolb.

128. Marketing of Farm Products. II; 3 cr. Prerequisite: Economics 1a. Mr. Macklin.

152. Farmer Movements. I; 2 cr. Prerequisite: Economics 1a. Mr. Hibbard.

193. Agricultural Credit. II; 2 cr. Prerequisite: Economics 1a. Mr. Hibbard.

225. Seminary in Rural Social Organization. I; 2 cr. Pre-

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[1]Courses 200, 201, 202 constitute a three-year cycle, one being given each year.

requisite: Senior standing. Mr. Kolb.

228. Seminary in Marketing. II; 2 cr. Prerequisite: Economics 128 or concurrent registration. Mr. Macklin.

229. Advanced Agricultural Economics. Yr.; 2 cr. Mr. Hibbard.

III. ACCOUNTING

***8a, 8b. The Elements of Accounting.** Full sophomore standing or mathematics 7b. Yr.; 2 cr. Mr. Elwell, Mr. Gibson, Miss Hensey.

90. The Teaching of Bookkeeping. II; 2 cr. Prerequisite: Economics 181. Mr. Elwell.

181. Theory and Practice of Accounting. I or II; 3 cr. Prerequisites: Economics 8a, 8b. Mr. Elwell, Mr. Gibson. Miss Hensey.

182. Cost accounting. II; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. Elwell, Mr. Gibson.

183. Advanced Accounting Problems. I; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. Elwell.

184. Auditing. II; 2 cr. Prerequisite: A minimum grade of 85 in Economics 181. Mr. Elwell.

186. Accounting Systems. I; 2 cr. Prerequisites: Minimum grades of 85 in Economics 181 and 182. Mr. Elwell.

187. Governmental Accounting. II; 1 cr. Prerequisites: Minimum grades of 85 in Economics 181 and 182. Mr. Elwell.

208. Accounting Principles. I; 2 cr. Prerequisite: Graduate standing. (Omitted 1924-25.) Mr. Elwell.

IV. BUSINESS ADMINISTRATION AND COMMERCIAL LAW

***11. Business Management.** I or II; 2 cr. Prerequisite: Economics 1a, junior standing, and not less than 80 grade points. Mr. Jamison.

***12. Credits and Collections.** II; 2 cr. Prerequisite: Economics 5 and not less than 80 grade points. Mr. Jamison.

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*Does not count toward the requirements for graduation from the College of Letters and Science except for students in the Couurse in Commerce or the Chemistry-Commerce Course.

*13. **Marketing Methods.** I; 2 cr. Prerequisites: Junior standing. Mr. Gardner, Mr. Fellows, Mr. Hinman.

*14. **Sales Administration.** II; 2 cr. Prerequisite: Economics 13. Mr. Gardner, Mr. Fellows, Mr. Hinman.

15. **Retail Advertising. I; 2 cr. Prerequisite: Junior standing. Mr. Gardner, Mr. Fellows, Mr. Hinman.

16. **Advertising Campaigns. II; 2 cr. Prerequisites: Economics 13 and 15. Mr. Gardner, Mr. Fellows, Mr. Hinman.

109. Commercial Law. Yr.; 3 cr. Prerequisite: Senior standing or consent of instructor. Mr. Gilman, Miss Frye.

V. INTERNATIONAL ECONOMICS

153. International Economics. II; 2 cr. Prerequisite: Sixteen credits in economics, including Economics 1b, and upper group status. Mr. Kiekhofer.

VI. INSURANCE

121. Property Insurance. II; 2 cr. Prerequisite: Economics 1a. Mr. Beecher.

138. Life Insurance. I; 2 cr. This course should precede Mathematics 24. Prerequisite: Economics 1a. Mr. Beecher.

VII. LABOR

119. Guilds and Capitalism. II; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

122. Labor Problems. I; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

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*Does not count toward the requirements for graduation from the College of Letters and Science except for students in the Course in Commerce or the Chemistry-Commerce Course.

**Does not count toward the requirements for graduation from the College of Letters and Science except for students in the Course in Commerce, the Course in Journalism, and the Chemistry-Commerce Course.

123. Labor Legislation. I; 3 cr. Prerequisite: Economics 1b. Mr. Witte.

144. Capitalism and Socialism. II; 3 cr. Prerequisite: Economics 1a and senior standing. Mr. Commons.

145. American Labor History. II; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

148. Foreign Labor Movements. I; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

171. Employment Management. I; 3 cr. Prerequisites: Economics 11 or a course in labor or industrial education. Mr. Lescohier.

174. Labor Market. II; 3 cr. Prerequisite: Economics 1b. Mr. Lescohier.

175. Technique of Field Investigation. II; 1 cr. Prerequisites: Economics and commerce majors with senior standing and upper group status. Mr. Lescohier.

265. Seminary in Labor, Labor Legislation, Labor Problems, and Labor Market. Yr.; 2 cr. Mr. Commons, Mr. Lescohier, Mr. Perlman, Mr. Witte.

VIII. LAND ECONOMICS

117. Outlines of Land Economics. I; 3 cr. Prerequisite: Economics 1a. Mr. Wehrwein.

120. Evolution of Industrial Society. I; 3 cr. Prerequisite: Economics 1a. Miss Shine.

179. Urban Land Economics. II; 3 cr. Prerequisite: Economics 1b. M. Glaeser, Mr. Dorau.

221. Costs and Income in Land Utilization. I; 3 cr. Mr. Ely.

226. Land Problems. Yr.; 2 cr. Mr. Ely, Mr. Hibbard, Mr. Wehrwein.

IX. PRIVATE FINANCE

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott, Mr. Clark.

110. Investments. II; 2 cr. Prerequisites: Minimum grades of 80 in Economics 137 and 181 and senior standing. Mr. Gilman.

133. Financial History of the United States. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5 and upper group status. Given in alternate years with Economics 134. Mr. Scott.

134. The Money Market. II; 3 cr. Prerequisite: A minimum grade of 80 in Economics 5 and upper group status. Given in alternate years with Economics 133. (Omitted 1924-25.) Mr. Scott.

137. Corporation Finance. I or II; 3 cr. Prerequisite: Grade of fair in Economics 5. Mr. Gilman, Mr. Clark.

185. Analysis of Financial Reports. II; 2 cr. Prerequisites: Minimum grades of 85 in Economics 137 and 181, senior standing, and consent of instructor. Mr. Gilman.

X. PUBLIC FINANCE

3. Public Finance. I or II; 3 cr. Prerequisite: Economics 1a.

124. Taxation. II; 2 or 3 cr. Prerequisite: Economics 3 or graduate standing.

257. Seminary in Taxation. Yr.; 2 cr.

XI. PUBLIC UTILITIES

135. Railway Transportation. I or II; 3 cr. Prerequisite: Economics 1b. Mr. Miller.

136. Railway Problems. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 168. Mr. Miller.

142. Public Utilities. Yr.; 2 cr. Prerequisites: Economics 1b or consent of instructor. Mr. Glaeser.

168. Railway Finance. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 136. (Omitted 1924-25.) Mr. Miller.

189. Railway Traffic and Rates. I; 3 cr. Prerequisite: Economics 135. Mr. Miller.

266. Seminary in Public Utilities. Yr.; 2 cr. Prerequisite: Economics 142 or Economics 135. Mr. Glaeser.

XII. SOCIOLOGY

4. Social Problems. II; 3 cr. Open to freshmen. Mr. Ross, Mr. Dittmer.

46. Social Origins. Yr.; 3 cr. Mr. Gillin, Mr. Dittmer.

139. Social Psychology. I; 3 cr. Prerequisite: Junior standing. Mr. Ross, Mr. Dittmer.

140. General Sociology. II; 3 cr. Prerequisite: Economics 1a or senior standing. Mr. Ross, Mr. Dittmer.

141. Poverty and Relief. I; 3 cr. Prerequisites: Economics 1a, 46. Mr. Gillin.

147. Methods of Social Case Work. II; 2 cr. Prerequisite: Economics 164. Miss Clarke.

161. Criminology and Penology. II; 3 cr. Prerequisites: Economics 1a, 46. Mr. Gillin.

164. Principles of Social Service. I; 2 cr. Prerequisites: Economics 1a, 46, and senior standing. Miss Clarke.

172. The American People. I; 3 cr. Prerequisites: Junior standing and Economics 1a. Mr. Lescohier.

177. Social Agencies and Social Legislation. I; 2 cr. Prerequisites: Economics 1a, 46, and senior standing. Miss Clarke.

178. Social Organization and Administration. II; 2 cr. Prerequisite: Economics 164. (Omitted 1924-25.) Miss Clarke.

256. Development of Correctional Policies. I; 2 cr. Mr. Gillin.

258. Degeneracy and Society. I; 2 cr. Mr. Gillin.

259. Development of Poor Law Policy. I; 2 cr. Mr. Gillin.

260. Seminary on the Demography and Sociology of Cities. II; 2 cr. Mr. Ross.

261. Seminary on Group Conflicts. II; 2 cr. Mr. Ross.

262. Seminary on the American Family. I; 2 cr. Mr. Ross.

263. Seminary on the Dynamics of Popoulation. I; 2 cr. Mr. Ross.

269. Research Seminary. II; 2 cr. Mr. Gillin.

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).

XIII. STATISTICS

130. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Special sections for commerce, economics, sociology, and graduate students. Mr. Jerome, Mr. Dittmer, Mr. Jamison, Mr. J. Perlman.

131. Wages, Prices, and Cost of Living. I; 2 cr. Prerequisites: Economics 130 and a course in labor. Mr. Lescohier.

132. Economic Statistics. II; 3 cr. Prerequisite: Economics 130. Mr. Jerome, Mr. J. Perlman.

See Course 175, Technique of Field Investigation, in Group VII.

See also Courses 136 and 137, the Mathematics of Statistics, under the Department of Mathematics.

EDUCATION

Professors Clapp, Henmon (Chairman), O'Shea; Associate Professors Chase, T. Lloyd-Jones, Miller, Uhl; Assistant Professors Fowlkes, Hoyt, (Extension Division), Merriman; Assistants Burke, Lauterbach, Nelson, Riebe, Sherman, Weinke.

The chief aim of this department is to treat the history, foundations, and practices of education in the spirit of contemporary thought. To this end courses are offered in each of the following groups: (1) history of education; (2) mental and social development; (3) educational psychology; (4) educational administration; (5) secondary education; (6) elementary education.

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 the Department of Education except Course 6 (*open to sophomores*) *without 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 6, 11, 31, 41, 90, and A are regarded as elementary and as introductory to the advanced courses given in the department. These courses are not open for election by graduates of the professional courses of the 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 Study in Absentia

All candidates for the degree of Master of Arts, Master of Philosophy, or Master of Science, fulfilling the general University requirements therefor by study during summer sessions and *in absentia*, and presenting Education as a major subject, must comply with the following special requirements:

(1) A minimum of three summer sessions in residence at this University, in addition to *in absentia* work, is 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 *four* of the six divisions of Education:

(a) The History of Education
(b) Mental and Social Development
(c) Educational Psychology
(d) Educational Administration
(e) Secondary Education
(f) Elementary Education

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 below.

(4) Each candidate must prepare a thesis presenting the results 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 session of residence study.

(7) At the opening of each summer session every candidate for a higher degree must register in the office of the Dean of the Graduate School.

Bureau of Educational Research

A Bureau of Educational Research has been established in the School of Education for the purpose of co-ordinating and facilitating research in education with particular reference to the public schools of the state. The facilities of the bureau are available for use by graduate students majoring in education and by superintendents, principals, and teachers throughout the state. Bulletins and studies, reporting the results of investigations, will be issued from time to time.

The work of the bureau is in charge of a committee consisting of members of the faculty of the Department of Education.

University Teachers Certificate

The requirements for the University Teachers Certificate will be found on page 315.

For Undergraduates

6. Introduction to Education. I; 2 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. Uhl.

41. Educational Psychology. I or II; 3 cr. Prerequisite: Psychology 1. Mr. Merriman.

90. Technique of Instruction. I or II; 2 cr. Mr. Uhl.

95. The Teaching of General Science. II; 2 cr. Mr. Davis.

★**A. Educational Practice.** I or II; 2 cr. Open only to seniors and graduate students qualifying for the University Teachers Certificate. It must be preceded by, or taken simultaneously with, either a departmental teachers course or Education 90. Mr. Miller.

For Undergraduates and Graduates

101. History of Modern European Education. II; 3 cr. Mr. Chase.

102. History of Ancient and Medieval Education. I; 3 cr. Mr. Chase.

103. History of American Education. I; 3 cr. Mr. Chase.

104. State and County Educational Administration. I; 3 cr. Mr. Fowlkes.

105. City School Administration. I; 3 cr. Mr. Fowlkes.

107. Elementary School Surveys and Tests. II; 2 cr. Prerequisite: Education 110 or satisfactory teaching experience. Mr. Clapp.

110. Elementary School Supervision. I; 3 cr. Prerequisite: One or more courses in educational psychology or satisfactory teaching experience. Mr. Clapp.

112. Social Development and Education. I or II; 2 or 3 cr. Mr. O'Shea.

142. Experiments in Educational Psychology. I or II; 1 cr. Prerequisite: Education 41 or major in education. Mr. Merriman.

★In the College of Letters and Science this course may not be counted as a part of the 120 credits required for graduation. It carries credit, however, toward the Teachers Certificate.

143. Individual Differences and the Measurement of Intelligence. I; 2 cr. Prerequisite: Education 41. Mr. Henmon.

144. The Psychology of Learning. II; 2 cr. Prerequisite: Education 41. Mr. Henmon.

147. Statistical Methods Applied to Education. I or II; 3 cr. Prerequisite: Education 41. Required of majors in education. Mr. Merriman.

161. Scientific Studies in Elementary Education. II; 3 cr. Prerequisite: Education 110 or satisfactory teaching experience. Mr. Clapp.

171. City School Finance. II; 3 cr. Prerequisite: Major in education. Mr. Fowlkes.

For Graduates

These courses are also open to normal school graduates of senior standing majoring in education.

203. Pro-seminary in the History of American Education. II; 2 cr. Open to seniors with adequate preparation. Mr. Chase.

204. European School Systems and Recent Educational Progress. I; 2 cr. Mr. Chase.

213. Contemporary American Education. I; 2 or 3 cr. Open also to seniors majoring in education. Mr. O'Shea.

220. Seminary in Education. Yr.; 1 or 2 cr. Mr. O'Shea.

244. Mental Tests. Yr.; 2 cr. Prerequisite: Education 41 or 142. Mr. Merriman.

248. Seminary in Educational Psychology. Yr.; 1 or 2 cr. Prerequisite: Education 41. Mr. Henmon.

263. Seminary in Elementary Education. Yr.; 1 or 2 cr. Mr. Clapp.

272. School Building Programs. II; 2 or 3 cr. Mr. Fowlkes.

278. Seminary in Public School Administration. Yr.; 1 or 2 cr. Mr. Fowlkes.

ENGLISH

PROFESSORS HUBBARD, LATHROP (Chairman), PYRE, GARDNER; ASSOCIATE PROFESSORS BEATTY††, CAIRNS, COOPER, DODGE, W. E. LEONARD, MANCHESTER††, ROE, TAYLOR; ASSISTANT PROFESSOR S. A. LEONARD; LECTURER GLICKSMAN; INSTRUCTORS AURNER, BATCHELOR, BRESNEHEN, BROWN, BUTTERWORTH, CASON, COBURNE, FERNBERG, FULCHER, HARKNESS†, LASLEY, LIMBER, POPE, ROBERTS††, RYAN, SCALLON, SCHLICHER, SHARPE, STEVENS, STROUT, TAPLEY, THOMPSON, THORNBURY, WALES, WALLERSTEIN, WHITE, WILLSON, ZUCKER; ASSISTANTS CALDWELL, CLUGSTON, CONKLIN, DOLE, EATON, GRAHAM, HULBURD, KASTLER, MANN, SCHWAB, SCOTT, SHANKS, SHUMAKER, SMITH, SPENCE, WALDRON, WHITNEY, WITT, WOOD, WRAY, YOUNG; ADAMS FELLOWS, MR. ODELL, MISS SHAPARD; SCHOLAR, MISS HAYE.

Undergraduate Courses

The General Survey (Course 30) or Introduction to English Literature (Course 33) is prerequisite to the other literature courses, and either of these courses 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

†On leave of absence first semester 1923-24.
††On leave of absence 1923-24.

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) or 33 (4 credits), and one course from each of the following groups: (a) 136 or 137; (b) 34, 35 or 40; (c) 31, 120, 157, 158, 159 or 160.

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 major for students taking the teachers certificate are explained on page 320. In place of group (c) of the requirements for the general major in English such students must take the teachers courses in English (90 and 91) and a course in the English language (120 or 123). Special adjustments are made for students with an adequate training in Latin or Greek. For the teachers minor in English see page 321.

All students, whether or not they are candidates for the teachers certificate who wish to have the department recommend them as teachers of English, are required to take English 90 and 91 and to pass either (1) an examination in English grammar or (2) Course 123.

Library Work

Students who take the joint course arranged at the University and State Library School may 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 toward 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 general character from the group primarily for undergraduates, especially 34, 35, 136 or 137, 39, 40. For detailed information in regard to preparation for library work, see page 306.

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 understand graduate work, or to complete such preliminary training in addition to the graduate work required; if they have not taken an undergraduate course in Anglo-Saxon, they are required to take at least three credits in that subject, but this requirement may be waived in the case of candidates who have had 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.

RHETORIC AND COMPOSITION

For Undergraduates

A. English Composition. For students who have failed to pass the test prescribed on page 122. Three hours a week; no undergraduate credit. Miss Ryan and staff.

1a. Freshman English. I or II; 3 cr. Required of freshmen in all colleges. Mr. Taylor and staff.

1b. Freshman English. I or II; 3 cr. Continuation of English 1a. Required of all freshmen excepting those who receive a grade of A in English 1a. 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. Taylor and staff.

2. Sophomore Composition. Yr.; 2 cr. Open to students who have passed English 1b. Mr. Harkness, Mr. Strout, and staff.

****4. Commercial Correspondence.** I or II; 2 cr. Mr. Gardner and Mr. Limber.

5. Junior Composition. Yr.; 2 cr. Prerequisite: A grade of 85 or over in English 1b or credit in English 2. Miss White.

6. Advanced Composition. Yr.; 3 cr. Elective for juniors and seniors. Mr. Dodge.

18. Advanced Composition. Yr.; 3 cr. Elective for juniors and seniors. (Omitted 1923-24.) Mr. W. E. Leonard.

107. Narration. Yr.; 2 cr. Open to juniors and seniors who have taken one composition course in advance of English 1b. Mr. Cairns.

108. Technique of the Drama. Yr.; 2 cr. Cannot be taken without consent of instructor. Mr. Cooper.

**Taken for credit only by students in the Course in Commerce, by seniors preparing to teach the subject, and by students who have taken one semester of English 2.

ENGLISH LANGUAGE AND LITERATURE

For Undergraduates

25. English Words. I; 3 cr. Open to sophomores, juniors, and seniors. Mr. Hubbard.

30. General Survey. Yr.; 3 cr. This course, the material in which is arranged in historical sequence, is designed for students who have a special interest in the study of literature, and is recommended to sophomores who contemplate making English their major subject. Either this course or course 33 must be taken as a prerequisite for all advanced courses in English literature. A student who has had credit in course 33 may not elect course 30. Mr. Pyre and staff.

31. Chaucer. II; 3 cr. Mr. W. E. Leonard.

33. Introduction to English Literature. Yr.; 2 cr. This course, the material in which is not taken up in historical order, is designed for those who need guidance to approach the reading of the higher forms of literature with intelligent interest. It is provided especially for sophomores who are candidates for the general B.A. degree. (See above p. 197.) The requirement in English literature for this degree may be met, however, either by 4 credits in this course or by 6 credits in course 30. Either course 30 or course 33 must be taken as a prerequisite for all advanced courses in English literature. A student who has credit in course 30 may not elect course 33. Mr. Pyre and staff.

34. The Romantic Movement. I; 3 cr. Mr. Cooper.

35. The Victorian Era. II; 3 cr. A continuation of 34. Mr. Cooper.

39. The Novel. Yr.; 2 cr. (Omitted 1923-24.) Mr. Lathrop.

40. American Literature. Yr.; 2 cr. This course should be preceded or accompanied by English 30. Mr. Cairns, Mr. Batchelor, Mr. Harkness.

48. The Literary Aspects of the English Bible. II; 3 cr. (Omitted 1923-24.) Mr. Lathrop.

54. Carlyle and Ruskin. I; 3 cr. Mr. Roe.

55. Emerson and Arnold. II; 3 cr. Mr. Roe.

67. Contemporary Drama (Comp. Lit. 67). Yr.; 2 cr. Does not count toward the major in English. Mr. Pyre.

68. Contemporary Novel (Comp. Lit. 68). Yr.; 2 cr. Does not count toward the major in English. (Omitted 1923-24.) Mr. Beatty.

90. The teaching of English Composition. I; 2 cr. Mr. S. A. Leonard.

91. The Teaching of English Literature. II; 2 cr. Mr. S. A. Leonard.

Observation of teaching is required in each course. 90 and 91 are required of all candidates for the teachers certificate (English major); an advanced composition course (to be taken in the sophomore and junior year) and 90 are required of all candidates for the minor teachers certificate in English.

For Undergraduates and Graduates

102. Renaissance Epic. (Comp. Lit. 102). II; 2 cr. Does not count toward the major in English. (Omitted 1923-1924.) Mr. Dodge.

120. Anglo-Saxon. I; 3 cr. Mr. W. E. Leonard.

121. Middle English. II; 3 cr. A continuation of course 120. Mr. W. E. Leonard.

122. Beowulf. II; 3 cr. Open to seniors. Mr. Hubbard.

123. Modern English Grammar. I or II; 3 cr. Mr. Hubbard.

136. Elizabethan Drama including Shakespeare. Yr.; 3 cr. (Omitted 1923-24.) Mr. Pyre.

137. Shakespeare. Yr.; 3 cr. Mr. Pyre, Mr. Fuller, Mr. Tapley, Miss Thornbury.

138. Prose Style. Yr.; 2 cr. (Omitted 1923-24.) Mr. Taylor.

141. Tennyson. II; 2 cr. (Omitted 1923-24.) Mr. Beatty.

142. Versification. II; 2 cr. (Omitted 1923-24.) Mr. Pyre.

143. Familiar Essay. Yr.; 2 cr. Mr. Taylor.

144. Wordsworth. II; 3 cr. (Omitted 1923-24.) Mr. Beatty.

145. Browning. I; 2 cr. Mr. Hubbard.

146. The Ballad (Comp. Lit. 146). I; 2 cr. Counts toward the major in English. (Omitted 1923-24.) Mr. Beatty.

149. Poe. I; 2 cr. (Omitted 1923-24.) Mr. Cairns.

150. Whitman. II; 2 cr. Mr. Cairns.

151. Bacon. II; 3 cr. (Omitted 1923-24.) Miss White.

153. Philosophy in the English Poets. Yr.; 2 cr. (Omitted 1923-24.) Mr. W. E. Leonard.

157. Milton. II; 2 cr. Mr. Dodge.

158. The Age of Dryden. II; 3 cr. Mr. Lathrop.

159. The Age of Pope. II; 3 cr. (Omitted 1923-24.) Mr. Lathrop.

160. The Sixteenth Century. I; 3 cr. Mr. Dodge.

166. Literary Criticism. Yr.; 3 cr. Mr. Lathrop.

For Graduates

223. English Grammar and Usage. II; 2 cr. Mr. Hubbard.

224. English Philology Seminary. Yr.; 2 cr. (Omitted 1923-24.) Mr. Hubbard.

231. Introductory Seminary in English Literature. Yr.; 2 cr. Subject for 1923-24, Arnold and Newman. Mr. Hubbard.

232. Introductory Seminary in English Literature. Yr.; 2 cr. Subject for 1923-24, Burns. Mr. W. E. Leonard.

244. Seminary in English Literature. Yr.; 2 cr. Subject for 1923-24, Classical Influences in the Sixteenth Century. Mr. Lathrop.

247. Seminary in American Literature. Yr.; 2 cr. Subject for 1923-24, Poe and Whitman. Mr. Cairns.

FINE ARTS

PROFESSOR SHOWERMAN.

122. The Fine Arts (Greek 122). Yr.; 3 cr. Illustrated general survey of architecture, sculpture, and painting from classical antiquity to the present time.

FORESTRY

LECTURER TIEMANN.

1. Forestry and Utilization of Wood. I; 2 cr. See Forest Products Laboratory.

GEOLOGY AND GEOGRAPHY

PROFESSORS LEITH (Chairman), MEAD, TWENHOFEL, WHITBECK‡, WINCHELL; ASSOCIATE PROFESSOR FINCH; ASSISTANT PROFESSORS LOBECK, INSTRUCTORS CONOVER, FREY, LOFT, SMITH, TREWARTHA; CURATOR THWAITES; ASSISTANTS BROWN, BUCKSTAFF, EMMONS, HALVERSON, STEARN, TAYLOR, VOSKUIL, WHITAKER, WOOD; RESEARCH ASSISTANT SWANSON.

The work of the department, as its name indicates, is divided into two main groups of studies, Geology and Geography. In each of these main groups courses are offered for general education as well as those leading toward professional work in these fields.

The Geology Group. For students wishing a survey of the field for general educational purposes, courses 1, 2, 6, 7, 8, 10 are suggested. Course 1, General Geology, is the principal introductory course for students in geology. Students whose preparation does not include either physics or chemistry may enter course 1 by special arrangement with the instructor. Students entering introductory course 6 in mineralogy should have a general knowledge of chemistry at least equivalent to that derived from a high school course.

Short courses in geology and mineralogy (2, 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 arrangement.

Students wishing to prepare for professional work in geology will take additional special courses after consultation with the instructor. Graduates of the department have gone

‡On leave of absence second semester 1923-24.

into several main fields of work: Education and research; geological surveys, national and state; economic geology, including such aspects as mineral deposits, engineering applications, valuation and taxation, and conservation. In all these fields the demand exceeds the supply. This is especially true in the economic field where the opportunities are beyond the capacity of the department to fill.

A major in this group requires thirty credits.

The Geography Group. For this group the introductory courses are 4 and 5; the latter is required of all students in the Course in Commerce. Courses 4 or 5 should be followed by one or more of courses 101, 102, 103, 104, and these by such courses as 105, 106, 107, 109, 127, 130, and 131. Course 106 (Agricultural Geography) is especially, but not wholly, designed for students in the College of Agriculture and course 105 (Overseas Commerce) for students in the Course in Commerce. All students who major in geography should take course 90 (Teaching of High School Geography) and should take selected courses in meteorology, history, economics, and political science. Opportunities for graduates who have majored in geography are principally in the field of teaching. However, geographical training is desirable for many positions in the government service, particularly in the department of commerce and in the consular service. In the commercial field, persons of geographic training supplementary to commercial training or experience, are in growing demand.

A major in this group requires thirty credits.

GEOLOGY

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. Stearn.

9. Engineering Geology. Yr.; 3 cr. A course in elementary geology for students in engineering; first semester re-

quired of juniors in civil engineering; both semesters required of students in mining engineering. Mr. Mead, Mr. Conover.

11. Elementary Course in Mapping. II; 3 cr. Application of plane table and other instruments to geologic and topographic mapping. 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 usually in iron or copper districts of Lake Superior or zinc district of Wisconsin. Mr. Leith, Mr. Mead. Special summer field courses are offered for credit from time to time by members of the department.

For elementary field courses see 1, 11, and 131. Field trips are made in connection with courses 4, 110, 111, 112, 118, and 133, and 139.

134. Regional Geology. I; 3 cr. A study of world geology. (Given 1923-24 and in alternate years.) Prerequisite: Geology 1 and 114. Mr. Twenhofel.

135. History of the Development of Geology. I; 2 cr. Prerequisite: Geology 1 or Geography 4. (Given 1923-24 and in alternate years.) Mr. Twenhofel.

PHYSICAL GEOLOGY

For Undergraduates and Graduates

113. Economic Aspects of Geology. I; 3 cr.; II; lect., 3 cr.; lab., 2 cr. (Given 1923-24 and alternate years.) Prerequisites: Chemistry 1, Geology 6 or 7, and Geology 1 or Geography 4. Mr. Leith, Mr. Mead.

114. Structural Geology. I; Lectures, 2 cr. Mr. Leith; 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. (Omitted 1923-24 and in alternate years.) Prerequisite: Geology 1 and 6. Mr. Leith, Mr. Mead. Course 116 should be taken with this.

116. Metamorphic Laboratory. Yr.; 2 cr. Quantitative study of metamorphism, to be taken with course 115. (Omitted 1923-24 and alternate years.) Mr. Mead.

117. Principles of Pre-Cambrian Geology. II; 2 cr. (Given 1924-25 and alternate years.) Prerequisite: Geology 114. 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 1923-24 and in alternate years.) Mr. Leith, Mr. Mead.

123. Oil Geology. II; 2 cr. Prerequisite: Geology 1 and 114. (Given 1923-24 and in alternate years.) Mr. Twenhofel.

128. Lake Superior Iron Ore Exploration. II; 2 cr. Prerequisites: Descriptive Geometry and course 114, 117, or 118. Mr. Mead

133. Sedimentation. II; 3 cr. Prerequisites: Geology 1, 6, and 114. Mr. Twenhofel.

STRATIGRAPHY AND PALEONTOLOGY

For Undergraduates and Graduates

112. Historical Geology and Stratigraphy. II; 5 cr. (Omitted 1923-24 and in alternate years.) Prerequisite: Geology 1 and 121. Mr. Twenhofel.

121. Paleontology. I; 5 cr. Prerequisite: Geology 1 or Zoology 1. (Omitted 1923-24 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. II; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Buckstaff.

8. Short Course in Petrology. I; 3 cr. Prerequisite: Chemistry 1, or a high school course in chemistry. Mr. Buckstaff.

For Undergraduates and Graduates

108. Petrology. Yr.; 5 cr. Prerequisite: Geology 6 or 7. Mr. Winchell.

119. Petrology of Lake Superior Rocks. Yr.; 3 cr. Prerequisite: Geology 108. (Omitted 1923-24 and in alternate years.) Mr. Winchell.

120. Advanced Mineralogy. Yr.; 2 to 4 cr. The relations between composition and optical properties in isomorphous groups. Prerequisite: Geology 6. Mr. Winchell.

124. Economic Mineralogy. II; 2 cr. (Omitted 1923-24 and alternate years.) Mr. Winchell.

129. Petrogeny. Yr.; 2 or 3 cr. Prerequisite: Geology 108. (Omitted 1924-25 and in alternate years.) Mr. Winchell.

138. Agricultural Mineralogy. II; 1 cr. Prerequisite: Chemistry 1 or equivalent. (Omitted 1924-25 and in alternate years.) Mr. Winchell.

GLACIAL GEOLOGY

For Undergraduates and Graduates

143. Glacial Geology. II; 3 cr. Prerequisites: Geology 1, 2, or 9, or Geography 4. Mr. Thwaites.

GEOGRAPHY

PHYSIOGRAPHY AND GEOGRAPHY

For Undergraduates

3. Laboratory Course in Geography. Yr.; 2 cr. Part of Geography 4. Miss Loft. (Omitted 1924-25)

4. Physiography and Geography. Yr.; 5 cr. No prerequisites. Mr. Whitbeck and staff.

5. Geography for Commerce Students. Yr.; 3 cr. Mr. Finch and staff.

44. Principles of Geography. II; 3 cr. A study of certain aspects of human progress as influenced by geographic environment. Designed for students of the social sciences. No prerequisites; not open to freshmen. (Counts for only 2 credits if student has taken Geography 4 or 5.) Mr. Whitbeck.

90. The Teaching of High School Geography. II; 2 cr. Prerequisite: Geography 4 or equivalent. Miss Loft.

For Undergraduates and Graduates

101. Geography of Europe. I; 3 cr. Mr. Lobeck.

102. Geography of South America. II; 3 cr. Mr. Whitbeck.

103. Geography of North America. I; 2 cr. Miss Loft.

104. Geography of Wisconsin. II; 2 cr.

105. Overseas Commerce. I; 3 cr. Prerequisite: Geography 4 or 5. Mr. Frey.

106. Agricultural Geography. I, 3 cr. Mr. Finch.

109. Advanced Physiography. II; 3 cr. Prerequisite: Geology 1 or 9, Geography 4 or 5. Mr. Lobeck.

122. Research. The amount of time is subject to special arrangement.

126. Maps and Geographic Teaching. I; 1 cr. (Omitted in 1923-24 and alternate years.) Mr. Finch.

127. Advanced Economic Geography. I; 3 cr. For intending teachers and advanced students. Prerequisite: Geography 4 or 5. Mr. Finch.

130. Physiography of the United States. Yr.; 3 or 5 cr. Prerequisite: Geology 1, 2, or 9 or Geography 4 or 5. Mr. Lobeck.

131. Summer Field Course in Physiography and Geology. 4 to 6 cr. During August, 4 weeks. Limited to 20 men students. Not given for less than 12 students. Costs, including living expenses and tuition, about $85.

132. Geographic Seminary. Yr.; 2 cr. Mr. Whitbeck and Mr. Finch.

137. Advanced Physiography and Block Diagrams. II; 3 cr. Prerequisite: Geology 1 or 9, Geography 4 or 5. Mr. Lobeck.

139. Rocky Mountain Physiography. II; 3 or 4 cr. Field course June 9-July 4, 1923, to Colorado Rockies, Yellowstone, and Glacier Parks. Credit given only to those who have had suitable preliminary training in geology or physiography, such as Geology 1, 2, or 9, and Geography 4 or 5. Cost, including tuition, about $300. Mr. Lobeck.

140. The Climatic Factor in Geography. Yr.; 2 cr. Prerequisite: Geography 4 or 5. Mr. Trewartha.

142. Current Geographic Literature. Yr.; 1 cr. Prerequisite: Geography 4 or 5. Mr. Lobeck.

145. Geography of Foreign Markets. II; 3 cr. Prerequisite: Geography 4 or 5. Mr. Frey.

GERMAN

PROFESSORS HOHLFELD (Chairman), VOSS; ASSOCIATE PROFESSORS GOODNIGHT, MORGAN (Secretary), ROEDDER, ASSISTANT PROFESSORS BRUNS, ERNST; INSTRUCTORS BUCK, MOHME, SAFIR, STARK; ASSISTANTS EMERSON, HINZ, NICOLAI, STALEY; TEACHING FELLOWS BULGER, GROTH, SALESKI, WILLBRAND.

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 eight credits in these two groups combined are prerequisite for the more ad-

vanced 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 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 55, and from 264 to 70, 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 and 151, which are so conducted as to be of direct benefit to properly qualified seniors.

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, 90 and 91, 130 or 131, 150 and 151.

For regulations concerning the maximum amount of work in one subject which may be credited toward the bachelor's degree, see page 144.

Minor in German*

Students preparing to teach, with German as their minor, will be required to complete courses 10, 90, and at least four credits in group B, or 130 or 131; i. e., at least 14 credits in advance of German 2b.

*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.

ELEMENTARY COURSES

For Undergraduates

Mr. Morgan is in general charge of these courses.

1a. First Semester German. I or II; 4 cr.

1b. Second Semester German. I or II; 4 cr. Prerequisite: Course 1a, or one year of high school German.

2a. Third Semester German. I or II; 4 cr. Prerequisite: Course 1b, or two years of high school German.

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.

For Graduates (no credit)

9. Beginners' German. Yr.; 2 hrs. Leads up to German 16. Mr. Morgan.

ADVANCED PRACTICE COURSES

For Undergraduates

10. Composition and Conversation. Yr.; 2 cr. Prerequisite: Four credits in advance of course 2b. Mr. Bruns.

19. Scientific German. Yr.; 2 cr. For students specializing in science. Prerequisite: Course 2b or equivalent. Mr. Mohme.

40. Elementary Conversation. Yr.; 1 cr. (2 hrs.) prerequisite: Course 2b or equivalent. Miss Ernst.

41. Intermediate Conversation. Yr.; 1 cr. (2 hrs.) Prerequisite: Four credits in advance of course 2b, or sufficient ability in speaking German. Mr. Bruns.

90. The Teaching of German. I; 2 cr. Methods. For seniors and graluates. Mr. Morgan.

91. The Teaching of German. 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. (Omitted for several years.)

For Graduates (no credit)

16. Prose Reading. Yr.; 2 hrs. Practice course. Mr. Morgan.

LECTURE COURSES

29. Survey of German Painting and Sculpture of the Nineteenth Century. I; I or 2 cr. (2 hrs.) Mr. Bruns.

75. German Classics in English Translation (Comp. Lit. 75.) Yr.; 2 or 3 cr. Mr. Hohlfeld.

Courses 29 and 75 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.

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. Mr. Bruns.

15. Classical and Modern Writers. Yr.; 3 cr. Not open to students who have had course 3. Mr. Roedder.

17. Modern German Drama and Novel. Yr.; 3 cr. A rapid reading course. (Omitted for several years.)

20. Schiller. Yr.; 2 cr. Mr. Roedder.

To make suitable four or five-hour courses, 15, 17, and 20 should be combined with 40 or 41.

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. German Poetry. II; 2 cr. Mr. Bruns.

22. Hebbel. I; 2 cr. **Heine.** II; 2 cr. (Omitted 1923-24.) Mr. Bruns.

23. Goethe. Yr.; 2 cr. Mr. Voss.

26. Modern Fiction. Yr.; 3 cr. (Omitted 1923-24.) Mr. Morgan.

27. Modern German Drama. Yr.; 2 cr. (Omitted 1923-24.) Mr. Bruns.

100. Thesis Course. Yr.; 2 cr. (Omitted for several years.)

For Undergraduates and Graduates

130. Goethe's Faust. Yr.; 2 or 3 cr. (3 hrs.) Alternates with course 131. (Omitted 1923-24.) Mr. Hohlfeld.

131. Survey of German Literature. Yr.; 2 or 3 cr. (3 hrs.) Alternates with course 130. Mr. Hohlfeld.

134. Lyric Poetry of the Nineteenth Century. Yr.; 2 cr. Alternates with course 149. Mr. Bruns.

135. The Novel of the Nineteenth Century. Yr.; 2 cr. Mr. Morgan.

136. Popular German Literature. Yr.; 2 cr. Alternates with course 137. (Omitted for several years.) Mr. Roedder.

137. Schiller. Yr.; 2 cr. Alternates with course 136. Mr. Roedder.

141. Principles and Practice of Translating (Comp. Lit. 141) II; 1 or 2 cr. For students with advanced training in German, French, or Italian. Mr. Morgan.

149. The Romantic Movement in Germany. Yr.; 2 cr. Alternates with course 134. (Omitted 1923-24.) Mr. Bruns.

246. Bibliography and Methods. Yr.; once a week; no cr. Required of members of the pro-seminary or seminary. Mr. Hohlfeld.

Courses 135 and 141 are given in English, the others in German.

For Graduates

247. Pro-seminary in German Literature. Yr.; 2 cr. (Omitted for several years.) Mr. Hohlfeld.

248. Seminary in German Literature. Yr.; 2 cr. Mr. Hohlfeld.

These courses are given in German.

GERMAN PHILOLOGY

Mr. Voss is in general charge of courses 150-155, 264-270.

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 for several years.)

154. Gothic. II; 2 cr. Mr. Roedder.

155. Old High German. I; 2 cr. Mr. Roedler.

159. Germanic Mythology and Heroic Legends. (Comp. Lit. 159.) II; 2 cr. (Omitted 1923-24.) Mr. Roedder.

For phonetics see above, course 91.

Courses 150 and 151 are given partly in German, the others entirely in German.

For Graduates

264. Modern and Middle Low German. Yr.; 1 cr. Alternates with course 265. (Omitted 1923-24.)

269. Philological Pro-seminary. II; 2 cr. Mr. Roedder.

270. Philological Seminary. Yr.; 2 cr. Mr. Voss.

Courses 264-270 are given in German.

HISTORY

Professors Fish, Paxson (Chairman), Root, Rostovtzeff, Sellery; Associate Professors Byrne, Chase; Assistant Professors Edwards, Fuller, Knaplund, Stephenson; Instructor Sellers; Assistants Albjerg, Bacon, Bennett, Buley, Deutsch, Dodson*, Foley, Lindegren, McLean, Massey, Elsie Nettels*, Phillips, Potts, Prescott, Ragatz*, E. D. Smith, W. E. Smith†, Tucker, Warner, Wilgus, Wood.

President Adams Fellow, Mr. Nettels.

University Fellows, Miss Hall, Mr. Livingston.

Scholars, Miss Burns‡, Mr. Hawk*, Mr. Schnell.

*Second semester appointment.

†First semester appointment.

‡Resigned November 1, 1923.

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 without 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 176 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 252 to 262 are open only to graduate students.

The History Requirement for Graduation

When history is offered as one of the required studies in the general course leading to the degree of bachelor of arts (see page 150), the requirement must be satisfied by a continuous three-credit course extending through two semesters.

The Major in History

Thirty credits in history (including, for upper group students, a thesis, four credits), are required for an undergraduate major in history and must include; (a) One introductory

course in European and one in American history, and (b) At least twelve credits in advanced courses.

The Teaching Major in History

The teaching major in history requires a minimum of thirty-eight credits, which must include courses 10 and 1 for an aggregate of ten credits; course 2 for four credits; course 4 for six credits; advanced courses (including, for upper group students, a thesis, four credits) to the amount of sixteen credits; and course 90.

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 thesis requirement is waived in the case of a student holding undergraduate Thesis Honors in the University of Wisconsin, and may be waived by vote of the Department in cases of students recommended to continue for the doctor's degree. Candidates will be admitted to the oral examination for the master's degree only in case the grades in all courses taken the previous semester (or summer session), were good or above.

The Doctor's Degree in History

Candidates for the degree of Doctor of Philosophy must be prepared by undergraduate studies to undertake advanced work. If they are notably deficient in their preparation (taking a minimum undergraduate major in history as a basis for

judgment), the deficiency must be made up during the first graduate year, without counting toward the higher degree.

The award of the doctor's degree is based upon the preparation of a thesis and examination in seven fields, two of which must lie outside the department.

The thesis must be based upon individual research, and must be presented in good literary and technical form for the approval of the reading committee, at least thirty days before the candidate is admitted to his final examination.

Two examinations are required for the doctor's degree. The preliminary examination must be taken at least twelve months in advance of the date at which the degree is expected to be awarded. It is designed to demonstrate the extent and soundness of the candidate's preparation over all of the seven fields described below, and to serve as a basis for his further studies. Admission to the candidacy for the degree will be based upon this examination.

The preliminary examination may, at the discretion of the department, be accepted as final over any of the fields included within the major and minor fields offered, but not including the thesis or the thesis field.

The final examination will include the thesis and the thesis field and all of the other fields presented by the candidate that have not been eliminated at the preliminary examination.

The seven fields upon which the candidate will be examined are as follows:

1. Historical Method and Historiography, including a knowledge of the lives and writings of the great historians, and required of all candidates.

2-5. Four fields comprising the major subjects, from the following list: Ancient History, Medieval Europe, Modern Europe, England, American Colonies, United States.

6-7. Two fields comprising the minor subject, ordinarily to be selected from those offered in economics, law, philosophy, or political science; but fields in other departments may be selected with the approval of the department.

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.

1. Medieval History. Yr.; 2 or 3 cr. (Humanities students must take the course for 4 credits.) Mr. Byrne and staff.

5a. English History (first semester). I or II; 3 or 2 cr. Not open to students in the Course in Commerce. Mr. Root, Mr. Sellers, and staff.

5b. English History (second semester). I or II; 3 or 2 cr. Not open to students in the Course in Commerce. Students who have had both semesters of History 1 may enter this course. Mr. Root, Mr. Sellers, and staff.

6. English History. Yr.; 3 cr. For students in the Course in Commerce only. Mr. Knaplund, Mr. Stephenson, and staff.

10. Ancient History. Yr.; 3 or 2 cr. Mr. Rostovtzeff and staff.

INTRODUCTORY COURSES NOT OPEN TO FRESHMEN

2. Modern European History. Yr.; 3 cr. Prerequisite: Sophomore standing. Mr. Fuller.

4. History of the United States. Yr.; 3 cr. Seniors may elect for two or three credits. Prerequisite: Sophomore standing. Mr. Fish.

4a. History of the United States (first semester). II; 3 cr. Prerequisite: Sophomore standing. Mr. Sellers.

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. Prerequisite: Senior standing. Mr. Chase.

91. Supplementary Reading for Teachers of History. II; 2 cr. Required for the teachers minor; elective for the teachers major. Prerequisite: Junior standing. Mr. Chase.

ANCIENT AND MEDIEVAL HISTORY

123. The Roman Empire. II; 2 cr. Prerequisite: Junior standing. (Omitted 1923-24.) Mr. Rostovtzeff.

125. Archaeological Introduction to Greek History. I; 2 cr. Prerequisite: Junior standing. (Omitted 1923-24.) Mr. Rostovtzeff.

127. Hellenistic Civilization and the Roman Republic. Yr. 2 cr. Prerequisite: Junior standing. (Omitted 1923-24.) Mr. Rostovtzeff.

131. Medieval Civilization. I; 3 cr. Prerequisite: History 1 or 5 and junior standing. (Omitted 1923-24.) Mr. Sellery.

133. Medieval Commerce. II; 2 cr. Prerequisite: History 1, 5, 6, or 10. (Omitted 1923-24.) Mr. Byrne.

134. The Renaissance. I; 3 cr. Prerequisite: History 1, 5, or consent or instructor. Mr. Sellery.

141. English Constitutional History. Yr.; 3 cr. Prerequisite: History 1, 5, 6, or 10. Mr. Byrne.

176. Greek Civilization. Yr.; 2 cr. Prerequisite: Junior standing or consent of instructor. Mr. Rostovtzeff.

MODERN HISTORY

136. History of France, 1000-1918. Yr.; 2 or 3 cr. Prerequisite: Sophomore standing. Mr. Stephenson.

138. The French Revolution and Napoleon. Yr.; 3 cr. Prerequisite: Junior standing or consent of instructor. Mr. Stephenson.

139. Nineteenth Century Europe. Yr.; 3 cr. Prerequisite: Sophomore standing. Mr. Fuller.

140. The Reformation. II: 3 cr. Prerequisite: History 1, 2, 5, or consent of instructor. Mr. Sellery.

142. England Under the Tudors. Yr.; 2 cr. Prerequisite: Junior standing or consent of instructor. (Omitted first semester 1923-24.) Mr. Knaplund.

143. The British Empire Since. 1815. Yr.; 3 cr. Prerequisite: An elementary course or junior standing. Mr. Root.

144. Development of Modern Russia. Yr.; 2 cr. Prerequisite: Junior standing. (Omitted 1923-24.) Mr. Rostovtzeff.

146. History of Central Europe. Yr.; 2 cr. (Omitted 1923-24.) Mr. Byrne.

147. Modern Britain, 1815-1921. Yr.; 3 cr. Prerequisite: Junior standing or consent of instructor. Mr. Knaplund.

148. History of Russia and Eastern Europe. Yr.; 2 cr. Prerequisite: History 1, 2, 5, 6, or consent of instructor. (Omitted 1923-24.) Mr. Fuller.

166. Pro-seminary in European Diplomatic History. Yr.; 2 cr. Open to graduates and seniors with adequate preparations. Mr. Fuller.

167. Pro-seminary in European Civilization, 1600-1789. Yr.; 2 cr. (Omitted 1923-24.) Prerequisite: Senior standing. Mr. Stephenson.

AMERICAN HISTORY

111. History of the West, 1763-1893. Yr.; 3 or 2 cr. Prerequisite: History 4 or junior standing. Mr. Paxson.

112. Representative Americans. I; 3 cr. Prerequisite: History 4 or junior standing. Mr. Fish.

113. History of New England. II; 2 cr. Prerequisite: History 4 or junior standing. (Omitted 1923-24.) Mr. Fish.

116. English Colonies in America, 1583-1783. Yr.; 3 cr. Prerequisite: History 5, History 4 concurrently, or junior standing. (Omitted 1923-24.) Mr. Root.

117. American Constitutional History, 1600-1920. Yr.; 3 cr. Prerequisite: History 4 or junior standing. Mr. Sellers.

118. Civil War and Reconstruction. II; 3 cr. Prerequisite: History 1, 2, 4, or 10. Mr. Fish.

119. French and Spanish Colonies in America. Yr.; 2 cr. (Omitted 1923-24.) Mr. Root.

120. American Foreign Policy, 1783-1919. I; 3 cr. Prerequisite: History 4 or junior standing. (Omitted 1923-24.) Mr. Fish.

124. Recent History of the United States, 1877-1923. Yr.; 2 cr. Prerequisite: History 4 or Junior standing. Mr. Paxson.

For Graduates

252. Historical Method. I; 2 cr. Graduate students in their first year are expected to take this course. Mr. Byrne, Mr. Fish, Mr. Knaplund.

254. Seminary in Ancient History. Yr.; 2 cr. A reading knowledge of Greek and Latin is required. Mr. Rostovtzeff.

256. Seminary in Medieval History. Yr.; 2 cr. A knowledge of Latin, French, and German is required. (Omitted 1923-24.) 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. Mr. Root.

261. Seminary in American History. Yr.; 2 cr. Mr. Fish.

262. Seminary in American History. Yr.; 2 cr. Mr. Paxson.

INDO-EUROPEAN COMPARATIVE PHILOLOGY

Professor Laird (Chairman); Associate Professor Roedder.

For Undergraduates and Graduates

103. Elementary Sanskrit. Yr.; 3 cr. Mr. Laird.

104. Gothic. I; 2 cr. Mr. Roedder.

220. Greek Grammar. I; 3 cr. Sounds and forms. (Given in 1923-24.) Mr. Laird.

225. Latin Grammar. I; 3 cr. Sounds and forms. Mr. Laird.

230. Advanced Sanskrit. Yr.; 1 cr. Mr. Laird.

INDUSTRIAL EDUCATION AND APPLIED ARTS

Professor Griffith†, Associate Professors Orth, Varnum, Acting Chairman; Instructors Cox, Colt, Stebbins, Wilson; Assistant Cargill; Student Assistants French, Tuttle, Wuerpel.

I. MANUAL ARTS

For Undergraduates

1. Elements of Mechanical Drawing. I or II; 3 cr. Mr. Orth and staff.

†Deceased April 30, 1924.

2. Elements of Mechanical Drawing. I or II; 3 cr. Prerequisite: Course 1. Mr. Orth and staff.

3. Descriptive Geometry. I or II; 3 cr. Mr. Millar and staff.

***4. Elementary Bench Woodwork.** I; 3 cr. (Not given 1923-24.) Mr. Cox.

***5. Furniture and Cabinet Design and Construction.** II; 3 cr. Prerequisite: Course 4 or equivalent. Mr. Cox.

***6. Wood Turning.** II; 2 cr. (Not given 1923-24.) Mr. Cox.

***7. Advanced Lettering.** I or II; 1 or 2 cr. Mr. Baldwin.

***11. Shop Planning and Installation.** I; 2 cr. Prerequisites: Courses 1 and 4. Mr. Cox.

***18. Building Plans and Specifications.** II; 3 cr. Prerequisite: Course 1. Mr. Griffith.

***19. Tools and Materials.** II; 2 cr. (Not given 1923-24.) Mr. Cox.

***20. Sheet Metal.** I; 3 cr. (Not given 1923-24.)

***21. Electrical Construction.** I; 3 cr. Mr. Cox.

***22. Auto-Mechanics.** II; 3 cr. (Not given 1923-24.)

***24. Carpentry.** II; 3 cr. (Not given 1923-24.) Mr. Cox.

***31. Elementary Pattern Making.** I or II; 1 cr. Mr. Lehman.

***33. Forge and Bench Work.** I or II; 1 cr. Mr. Schumann.

***34. Lathe Work in Metals.** I or II; 1 cr. Mr. Breckey and staff.

***35. Planing and Milling Metals.** I or II; 1 cr. Mr. Breckey and staff.

***36. Tool Making.** I or II; 2 cr. Prerequisites: Courses 34, 35. Mr. Breckey and staff.

***37. General Machine Shop Work.** I or II; 2 cr. Prequisites: Courses 34, 35. Mr. Breckey and staff.

***38. Heat Treatment and Metallography.** II; 2 cr. Prerequisite: Course 33. Mr. Fahlberg.

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*Does not count toward the requirements for graduation from the College of Letters and Science except for students in the Coure in Industrial Education or Applied Arts.

***39. Advanced Pattern Making and Foundry Practice.** II; 1 cr. Prerequisites: Courses 16 and 43. Mr. Lehman, Mr. Goude.

***43. Elementary Foundry Practice.** I or II; 1 cr. Mr. Goude.

II. DRAWING, PAINTING, DESIGN, AND CRAFTS WORK

For Undergraduates

50. Freehand Drawing and Perspective. I; 3 cr. Open to freshmen. Miss Wilson.

51. Freehand Drawing and Anatomy. II; 3 cr. Open to freshmen. Prerequisite: Course 50 or equivalent. Miss Wilson, Mr. Stebbins.

54. Modeling. I; 3 cr. (Not given 1923-24.) Miss Wilson.

56. Drawing and Painting (applied). Yr.; 3 cr. Prerequisites: Credit in courses 50 and 51. Mr. Colt.

***57. Architectural Rendering.** II; 3 cr. Prerequisites: Courses 1, 18, 50. (Not given 1923-24.) Miss Wilson.

60. Survey of Graphic and Decorative Arts. Yr.; 2 cr. 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.

63. Commercial Art. Yr.; 3 cr. Practical problems based upon the psychology of commercial art. Prerequisites: Courses 1, 50, 56, 62. Mr. Colt.

70. Applied Design in Metal (copper, silver, gold). Yr.; 3 cr. Desirable prerequisites: Registration or credit in course 6 2or 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.

72. Applied Design in Wood (carving, inlay, finishing). II; 3 cr. Desirable prerequisites: Registration or credit in course 62 or equivalent training. (Not given 1923-24.) Mr. Cox.

****80. Elementary Handwork.** II; 2 or 3 cr. For those interested as teachers. Prerequisite: Credit in course 90 desirable. (Not given 1923-24.) Miss Wilson.

For Undergraduates and Graduates

***130. Experimental Design.** I; 2 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. (Not given 1923-24.) Mr. Varnum.

***131. Advanced Design.** II; 2 cr. Original composition in the arts applied to civic, school, or home use. Prerequisites: Courses 54 or 56, 62, 70 or 71. (Not given 1923-24.) Mr. Varnum.

***132. Art Structure.** Yr.; 2 or 3 cr. Advanced technical training for vocational or teacher training ends. Prerequisites: Courses 54 or 56, 62. Mr. Colt.

III. INDUSTRIAL EDUCATION AND ADMINISTRATION

For Undergraduates

****90. Psychology of Teaching Arts and Industrial Subjects.** I; 2 cr. Prerequisite: Junior s anding. Mr. Griffith.

***100. Senior Thesis Course.** Yr.; 2 cr. Mr. Griffith, Mr. Varnum and staff.

For Undergraduates and Graduates

110. American Apprenticeship and Industrial Education. I; 2 cr. Prerequisite: Junior standing. Mr. Griffith.

***111. Organization, Administration, and Special Methods.** I; 2 cr. Prerequisite: Junior standing. Mr. Stebbins.

***112. The Teaching and Supervision of Special Subjects.** II; 2 or 3 cr. Prerequisite: Senior standing. Mr. Stebbins.

113. Vocational Education and Guidance. II; 2 cr. Prerequisite. Junior standing. Mr. Griffith.

116. Tests and Measurements in Art and Industry. II; 2 cr. Prerequisite: Junior standing. Mr. Griffith.

117. Trade Analysis. I; 2 cr. Prerequisite: Junior standing. Mr. Griffith. (Not given 1923-24.)

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*Does not count toward the requirements for graduation from the College of Letters and Science except by students in the Course in Industrial Education or Applied Arts.

**See note on p. 226.

120. Job Analysis. I; 2 cr. Prerequisite: Junior standing. Mr. Griffith.

121. Employe and Foremanship Training. II; 2 cr. Prerequisite: Junior standing. Mr. Griffith.

***128. Related Technical Training.** I; 2 cr. Prerequisite: Junior standing. Mr. Griffith.

****129. The Continuation School.** I; 2 cr. Organization and teaching technique of the part-time or continuation school. Prerequisite: Junior standing. Mr. Griffith.

For Graduates

***225. Seminary.** Yr.; 2 cr. Mr. Griffith, Mr. Varnum.

JOURNALISM

PROFESSOR BLEYER (Chairman); ASSOCIATE PROFESSOR HYDE; ASSISTANT PROFESSOR JOHNSON; INSTRUCTORS BIRDSONG, MISS PATTERSON; ASSISTANT FRENCH.

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 p. 293), and of students in the College 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 a copy-desk. Adjoining this is a reading room with current files of representative American

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*Does not count toward the requirements for graduation from the College of Letters and Science except by students in the Course in Industrial Education or Applied Arts.

**Courses so marked may be counted toward graduation in B.A. or Ph.B. courses by students minoring in Industrial Education or Applied Arts. All courses count toward B.S. in Industrial Education or in Applied Arts.

newspapers and journalistic periodicals, and a lecture room. To familiarize students of journalism with the principles of typography, the department has a printing laboratory for practical work in connection with the courses in editing, advertising, and newspaper administration.

Besides the instruction given by the Department of Journalism, several other departments offer courses especially for journalism students. The Law School gives a course in the law of the press, including the law of copyright and libel. The Department of Industrial Education has special classes in drawing for students of journalism and advertising, which include cartooning, illustrating, and sketching. Courses in French and Spanish journalism are offered by the Romance Languages Department. 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 from time to time for the students in journalism classes.

A complete description of the courses in journalism and advertising is given in a special bulletin, "Courses in Journalism, 1923-24," which may be had upon application to the Director of the Course in Journalism.

Major in Journalism

The undergraduate major in journalism is offered only to candidates for the degree of Bachelor of Arts (Course in Journalism). It requires, in addition to a thesis, not less than 24 credits, in which may be included, besides courses in the Department of Journalism, Law of the Press (Law School), Retail Advertising (Economics 15), French Journalism (French 18), Spanish Journalism (Spanish 17), and Agricultural Journalism. The courses in journalism required for an undergraduate major are Newspaper Reporting (Journalism 2), 6 credits; Copy Reading (Journalism 3), 6 credits; History and Principles of Journalism (Jour-

nalism 110 and 111), 6 credits; and 4 credits either in Editorial and Critical Writing (Journalism 104 and 106), or the Writing of Special Feature Articles (Journalism 105).

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 various kinds 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.; 1 cr. Required of freshmen in the Course in Journalism; no credit to other students. Mr. Hyde.

2. Newspaper Reporting and Correspondence. Yr.; 3 cr. Primarily for sophomores. Mr. Hyde, Mr. Birdsong, Miss Patterson.

3. Copy Reading. Yr.; 3 cr. Prerequisite: Journalism 2 or equivalent practical experience. Mr. Johnson, Mr. French.

7. The Country Newspaper. I; 2 cr. Open only to juniors and seniors. Mr. Johnson.

8. Newspaper Administration. II; 2 cr. Open only to juniors and seniors. Mr. Johnson.

9. Women's Departments in Newspapers and Magazines. Yr.; 2 cr. For juniors and seniors. Miss Patterson.

****15. Retail Advertising (Economics 15).** I; 2 cr. Prerequisite: Junior standing. Mr. Gardner, Mr. Fellows, Mr. Hinman.

****16. Advertising Campaigns (Economics 16).** II; 2 cr. Prerequisite: Economics 13 and 15. Mr. Gardner, Mr. Fellows, Mr. Hinman.

17. Spanish Journalism. (Spanish 17). Yr.; 2 cr., 1 in Spanish, 1 Journalism. Prerequisites: Spanish 10a and sophomore standing. Mr. Ortega.

18. French Journalism (French 18). Yr.; 2 cr., 1 in French, 1 in Journalism. Prerequisites: French 10a and sophomore standing. (Omitted 1923-24). Mr. Ernst.

25. Law of the Press. II; 2 cr. Mr. Rice.

50-51. Freehand Drawing and Illustration (Industrial Education, 50, 51). I or II; 3 cr. Miss Wilson.

For Undergraduates and Graduates

104. Editorial Writing. I; 2 cr. Primarily for seniors and graduates. Mr. Birdsong.

105. Writing of Special Feature Articles. Yr.; 2 cr. Not open to sophomores. Mr. Bleyer.

106. Critical Writing. II; 2 cr. Primarily for seniors and graduates. Mr. Bleyer.

110. History of American Journalism. I; 3 cr. Open only to seniors and graduates. Mr. Bleyer.

111. Principles of Journalism. II; 3 cr. Open only to seniors and graduates. Mr. Bleyer.

112. Advanced Reporting. II; 2 cr. Open only to journalism seniors and graduates. Mr. Hyde.

190. The Teaching of Journalism. I; 2 cr. For seniors and graduates. Mr. Hyde.

200. Seminary in Journalism. Yr.; 2 cr. Subject for 1924-25: The relation of the press to public opinion. Mr. Bleyer.

**Does not count toward the requirements for graduation from the College of Letters and Science except for students in the Course in Commerce and the Course in Journalism.

MATHEMATICS

PROFESSORS SKINNER, SLICHTER‡, VAN VLECK‡ (Chairman); ASSOCIATE PROFESSORS DOWLING, DRESDEN, MARCH; ASSISTANT PROFESSORS HART, WEAVER; LECTURER, HAMILTON; INSTRUCTORS ALLEN, BABCOCK, BUNYAN, FELTGES, FENNER, JENSEN, KELLER, LOOMIS, MILLER, PARKINSON, SYNNERDAHL*, WAIT.

FELLOW, MISS CHAPMAN; MISS STONE (EDUCATION AND MATHEMATICS).

SCHOLAR, MISS KENNEDY (CARROLL COLLEGE).

In this department, courses 1 to 7b are planned to give a working knowledge of elementary mathematics. Courses 7a and 7b 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 eight hours from any courses numbered 1 to 7b.

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.

Major and Minor in Mathematics

The minimum requirement for an undergraduate major in mathematics is 21 credits which shall consist of courses 5, 6, 112 or 113, and other courses numbered 100 or above.

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 re-

*First semester only.

‡On leave of absence second semester 1923-24.

quirements for mathematics as a major or minor subject in the School of Education are given on page 323.

Higher Degrees

Attention of candidates for the master's and doctor's degrees in the Department of Mathematics is called to the general requirements as set forth under the Graduate School.

The special requirements for the degree of Master of Arts or Master of Science in mathematics are a thesis and one year of graduate courses pursued in residence with an average grade of "good." Prerequisite is an amount of undergraduate work substantially equivalent to that required for an undergraduate major in mathematics as outlined above.

For Undergraduates, College of Letters and Science

1. Algebra. I or II; 4 cr. For students presenting one unit of algebra for entrance. Prerequisite to all other courses except 2, 7a, and 7b. Mr. Skinner and staff.

2. Trigonometry. I or II; 4 cr. Prerequisite to all other courses except 1, 7a, 7b, and 24. Mr. Skinner and staff.

3. Analytic Geometry. I; 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, Miss Chapman, Mr. Van Vleck.

4. Analytic Geometry. II; 4 cr. Miss Allen, Mr. Dresden, Mr. Miller.

5. Calculus. Yr.; 3 cr. Begins each semester. Students who intend to specialize in mathematics or who desire calculus for application 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. Miss Allen, Mr. Dowling, Mr. Dresden, Mr. Miller.

6. Determinants and Analytic Geometry of Three Dimensions. I; 3 cr. Prerequisite: Course 3 or 4. Mr. Dresden.

7a. Mathematics for Commerce Students. I or II; 3 cr. A briefer course in algebra, required of students in the Course in Commerce and open only to students in special courses. Mr. Skinner and staff.

7b. Mathematics for Commerce Students. I or II; 3 cr. Prerequisite: Mathematics 1 or 7a. Mr. Skinner and staff.

24. Theory of Life Insurance. Yr.; 2 cr. Prerequisite: Course 7b or its equivalent. Mr. Dowling.

90. 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.

91. 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. 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. Weaver, and staff.

52. Elementary Mathematical Analysis. I or II; 5 cr. A continuation of 51. Required of freshmen in engineering. Mr. March, Mr. Weaver and staff.

54. Differential and Integral Calculus. I or II; 4 cr. Required of all sophomores in engineering. Mr. March, Mr. Weaver, and staff.

55. Calculus. I or II; 4 cr. Continuation of 54. Required of sophomores in engineering. Mr. March, Mr. Weaver, and staff.

For Undergraduates, College of Agriculture

71. Mathematics for Agricultural Students. II; 4 cr. Mr. Babcock and staff.

For Undergraduates and Graduates

Course 5 or 55 is prerequisite to all courses in this group except 115 and 125.

110. Higher Mathematics for Engineers. Yr.; 3 cr. Elective for juniors, seniors, and graduate students. Mr. Weaver.

111. Advanced Calculus. I; 3 cr. Mr. Skinner.

112. Differential Equations. I or II; 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. In alternate years. Mr. Dowling.

118. The Theory of Probabilities and Method of Least Squares. II; 2 cr. Mr. Slichter.

119. Differential Geometry. II; 3 cr. In alternate years. Mr. Skinner.

125. Theory of Equations. II; 3 cr. Mr. Dresden.

136. The Mathematics of Statistics. I; 3 cr. A course in probability, interpolation, curve fitting, correlation, and graphical calculation. May not be counted toward the minimum requirement for a major in mathematics. Prerequisite: College algebra, elementary statistics, a knowledge of logarithms, and the consent of the instructor. Mr. Ingraham.

137. The Mathematics of Statistics. II; 4 cr. Parts of calculus necessary to the theory will be developed and application will be made to probability, correlation, and other important subjects. May not be counted toward the minimum requirement for a major in mathematics. Prerequisite: Course 136, or consent of instructor. Mr. Ingraham.

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.

220. Theory of Analytic Functions. Yr.; 3 cr. In alternate years. Mr. Van Vleck.

221. Theory of Functions of a Real Variable. Yr.; 3 cr. In alternate years. (Omitted 1923-24.) Mr. Van Vleck.

243. Modern Theory of Differential Equations. Yr.; 2 cr. (Omitted 1923-24.) Mr. Van Vleck.

244. Higher Geometry. II; 3 cr. In alternate years. (Omitted 1923-24.) Mr. Dowling.

246. Finite Groups. Yr.; 3 cr. (Omitted 1923-24.) Mr. Skinner.

249. Theoretical Hydrodynamics. I; 3 cr. (Omitted 1923-24.) Mr. Slichter.

250. Theory of Elasticity. II; 3 cr. (Omitted 1923-24.) Mr. Slichter.

251. Theory of Potential. Yr.; 2 cr. (Omitted 1923-24.) Mr. Slichter.

263. Higher Algebra. Yr.; 2 cr. (Omitted 1923-24.) Mr. Dresden.

265. Harmonic Analysis. Yr.; 3 cr. Mr. March.

266. Theory of Numbers. Yr.; 3 cr. Mr. Skinner.

267. Calculus of Variations. Yr.; 3 cr. Mr. Dresden.

268. Partial Differential Equations. Yr.; 3 cr. (Omitted 1923-24.) Introductory course. Mr. Van Vleck.

270. The Mathematical Bases of the Theory of Relativity. II; 3 cr. In 1922-23 and alternate years. Mr. Dowling.

Mathematical Club—For instructors and graduates. Twice monthly. The object of the club will be to follow important recent developments in mathematics.

Junior Mathematical Club—For all students interested in mathematics. Twice monthly.

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 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. Mr. Miller.

106. Climatology. II; 3 cr. Prerequisite: Geography 4. Mr. Miller.

MUSIC

Emeritus Professor Parker; Professors Mills (Chairman) Dykema; Associate Professors Burleigh, Coon; Assistant Professors Iltis, Lockwood, Morphy, Swinney; Instructors Benham, Borge, Eastman, Holst, Landon, Peterson; Assistant Givens.

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 electives in many departments of the University with the following and other exceptions:

Courses 71 and 75 may not be taken for 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 an examination committee of the School. Credit, not to exceed a total of ten semester hours, is given for applied music as for other collegiate studies.

THEORY AND PRACTICE

For Undergraduates

1. Harmony. Yr.; 3 cr. Miss Benham.

5. Form and Analysis. II; 2 cr. Miss Benham.

11. Harmony. Yr.; 3 cr. Prerequisite: Course 1. Miss Eastman.

21. Counterpoint. Yr.; 2 cr. Prerequisite: Course 11. Mr. Mills, Miss Eastman.

31. History. Yr.; 2 cr. Mr. Mills, Miss Benham.

36. History of Piano Music and Its Technic. Yr.; 2 cr. Mr. Coon.

41. Methods and Practice. Yr.; 3 credits. Public school music, first year. Miss Borge.

45. Public School Music. Yr.; 2 cr. (Omitted 1924-25). Mr. Dykema, Miss Borge.

51. Methods and Practice. Yr.; 4 cr. Public school music, second year. Mr. Dykema.

55. Methods and Practice. 3 credits. Public school music, third year. Mr. Dykema.

65. Appreciation of Music. Yr.; 1 cr. Open to upper classmen. Mr. Mills.

71. Sight Singing and Ear Training. Yr.; 1 cr. Miss Borge.

75. Sight Singing and Ear Training. Yr.; 1 cr. Prerequisite: Course 71. Miss Borge.

76. Orchestra. Yr.; 1 cr. Prerequisite: The ability to play some instrument. Mr. Morphy.

77. Choral Music. Yr.; Mr. Dykema.

78. Community Music. I; 2 cr. Mr. Dykema.

79. Selection and Interpretation of Music Material. II; 2 cr. Mr. Dykema.

80. Applied Music. No college credit. Course for beginners in applied music.

81. Piano. Yr.; cr. to be arranged. Mr. Coon, Mr. Iltis, Miss Landon, Miss Lockwood.

82. Voice. Yr.; cr. to be arranged. Mr. Swinney, Miss Peterson, Miss Holst.

83. String and Orchestral Instruments. Yr.; cr. to be arranged. Mr. Burleigh, Mr. Morphy.

84. Organ. Yr.; cr. to be arranged. Mr. Mills, Miss Eastman.

85. Ensemble. Yr.; 2 cr.

89. Elements of Practical Instrumentation. Yr.; 2 cr. Mr. Morphy.

90. Instrumentation. I or II; 2 cr. Prerequisite: Course 89. Mr. Morphy.

100. Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

102. Advanced Harmony. Yr.; cr. to be arranged. Prerequisite: Course 11. Mr. Mills.

112. Advanced Counterpoint. Yr.; cr. to be arranged. Prerequisite: Course 21. Mr. Mills.

122. Double Counterpoint. Yr.; 2 cr. Canon and fugue. Prerequisite: Course 21. (Not given 1923-24.) Mr. Mills.

152. Instrumentation. Yr.; 2 cr. (Not given 1923-24.) Mr. Morphy.

162. Composition. Yr.; 2 cr. Small forms, etc. (Not given 1923-24.) Mr. Burleigh, Miss Benham.

For Graduates

211. Modern Orchestration. Yr.; hours to be arranged. (Not given 1923-24.) Prerequisite: Course 152. Mr. Mills.

265. Free Composition. Yr.; hours to be arranged. Prerequisite: Course 162. (Not given 1923-24.) Mr. Mills, Mr. Burleigh.

PATHOLOGY AND MEDICAL BACTERIOLOGY

Professors Bunting (Chairman), Clark; Instructors Coon Cromwell, Holford, Romberg; Student Assistant Thomas.

For full description of courses in pathology, see announcement under Medical School.

For Undergraduates

5. Health and Disease. II; 2 cr. Required course for physical education students. Mr. Clark.

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. Prerequisites: Anatomy 110, Physiology 105.

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. Yr. (hours and credits by arrangement).

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology. Yr. (hours and credits by arrangement).

PHARMACOLOGY AND TOXICOLOGY

Professor Loevenhart (Chairman); Assistant Professor Leake; Instructors Schmitz, Wakerlin, Whitmer, Young.

101. General Toxicology. II; 1 cr. Lectures. Mr. Loevenhart.

104. General Pharmacology. I; 2 cr. Lectures. Mr Loevenhart, Mr. Schmitz, Mr. Leake.

105. General Pharmacology. I; 2 cr. Laboratory. Mr. Loevenhart, Mr. Schmitz, Mr. Leake.

108. Advanced Pharmacology and Toxicology. Mr. Loevenhart.

112. Independent Investigation. Mr. Loevenhart.

120. Journal Club. Yr. Mr. Loevenhart.

PHARMACY

Professor Kremers (Chairman); Instructors Motley, Wakeman; Assistants Jenkins, Tilford.

Fellow, Mr. Bacon.

For Undergraduates

1. Pharmaceutical Technique. Yr.; 3 cr. Mr. Motley.

20. Elementary Prescription Practice. I; 3 cr. Mr. Kremers, Mr. Jenkins.

22. Elementary Prescription Practice. I or II; 1 cr. For pre-medical students. Mr. Kremers, Mr. Jenkins.

30. Pharmaceutical Technology. II; 4 cr. Mr. Kremers, Mr. Motley.

40. Drug Store Practice. Yr.; 1 cr. Alternates with Pharmacy 50. Mr. Kremers, Mr. Jenkins, and special lecturers.

50. History of Pharmacy. Yr.; 1 cr. Alternates with Pharmacy 40. Mr. Kremers, Mr. Jenkins.

100. Thesis. Yr.; 2 cr.

For Undergraduates and Graduates

121. Advanced Prescription Practice. I; 2 cr. Mr. Kremers.

130. Advanced Pharmaceutical Technology. Cr. to be arranged. Mr. Kremers.

For Graduates

250. Conference of Research Workers. 1 or 2 hours. Mr. Kremers.

PHARMACOGNOSY

ASSISTANT PROFESSOR RICHTMANN.

10. Sources and Collection of Crude Vegetable and Animal Drugs. I or II; 1 cr. Mr. Richtmann.

20. Crude Vegetable and Animal Drugs of the United States Pharmacopoeia and National Formulary. Yr.; 2 cr. Mr. Richtmann.

21. Doses of Vegetable and Animal Drugs of the United States Pharmacopoeia and National Formulary. I or II; 1 cr. Mr. Richtmann.

22. Habitats of Crude Vegetable and Animal Drugs. I or II; 1 cr. Mr. Richtmann.

100. Thesis. Yr.; 2 cr. Mr. Richtmann.

110. Sources of Information of Crude Vegetable and Animal Drugs. I or 11; cr. to be arranged. Mr. Richtmann.

30. Cultivation of Medicinal Plants. Yr.; cr. to be arranged. Mr. Richtmann.

PHILOSOPHY AND PSYCHOLOGY

Professors Jastrow, McGilvary (Chairman), Otto, Sharp; Associate Professor Hull; Instructors Mueller, Phillips, Piatt, Warden; Assistants Eaton, Fox, Haentzschel, Simley, Van Tassel.

Fellow, Mr. Fang; Scholar, Mr. Liu.

The student is at liberty to begin work in philosophy or psychology 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 1, 11, 21, 25, or 41 in the second semester.

The requirements for an undergraduate major in philosophy or psychology 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. Students majoring in philosophy are required to take courses 31 and 32; students majoring in psychology are required to take courses 103 and 104.

PHILOSOPHY

For Undergraduates

11. Elementary Logic. I or II; 3 cr. Mr. Otto, Mr. Piatt, Mr. Phillips.

21. Introduction to Philosophy. I or II; 3 cr. Mr. McGilvary.

25. The Relation of Man to Nature. II; 3 cr. Prerequisite: Junior standing. Mr. Otto.

31. History of Ancient and Medieval Philosophy. I; 3 cr. Mr. Phillips.

32. History of Modern Philosophy. II; 3 cr. Mr. Phillips. Prerequisite: Philosophy 31, 21, 25, or an equivalent.

41. Ethics. II; 3 cr. Introductory course. Mr. Sharp.

42. Political Ethics. A study of international problems raised by the World War. II; 2 cr. (Omitted 1924-25.) Mr. Sharp.

43. Business Ethics. I or II; 2 cr. Mr. Sharp.

Courses 42 and 43 may be taken independently of one another. For neither course is 41 a prerequisite.

49. Moral Education. II; 2 cr. (Omitted 1924-25.) Mr. Sharp.

For Undergraduates and Graduates

133. Modern Idealism. II; 2 or 3 cr. Prerequisite: Philosophy 21, 25, 31, or 32. (Omitted 1923-24.)

134. Contemporary Philosophy. Yr.; 3 cr. Prerequisites: Philosophy 21, 31, or 32. Mr. McGilvary.

135. Descartes, Spinoza, and Leibniz. II; 3 cr. (Omitted 1923-24.) Prerequisite: Philosophy 21, 25, 31, or 32.

136. Locke, Berkeley, Hume. II; 3 cr. Prerequisite: Philosophy 21, 25, 31, or 32. Mr. Piatt.

137. Kant. II; 3 cr. The Critique of Pure Reason. Prerequisite: Philosophy 21, 25, 31, or 32. Mr. Piatt.

139. American Philosophers. I; 3 cr. With special reference to Royce, Santayana, and James. Prerequisite: 3 cr. in philosophy. Mr. Otto.

160. Pragmatism. I; 3 cr. Prerequisite: Philosophy 21, 25, 31, or 32. (Omitted 1924-25.) Mr. Piatt.

For Graduates

213. Logical Seminary. Yr.; 2 cr. Mr. Otto.

240. Metaphysical Seminary. Yr.; 2 cr. Mr. McGilvary.

247. Ethical Seminary. Yr.; 2 cr. Mr. Sharp.

PSYCHOLOGY

For Undergraduates

1. Introductory Psychology. I or II; 3 cr. Mr. Sharp, Mr. Mueller, and staff.

10. Experimental Psychology for Premedical Students. II; 3 cr. Mr. Hull.

19. Psychological Principles of Advertising. I; 2 cr. (Omitted 1924-25.) Mr. Warden.

20. Human Traits. I; 3 cr. Mr. Jastrow.

51. Aesthetics. I; 3 cr. Mr. Jastrow.

For Undergraduates and Graduates

103. Experimental Psychology. Part I. I; 3 cr. Mr. Hull, Mr. Mueller.

104. Experimental Psychology. Part II. II; 3 cr. Mr. Hull, Mr. Mueller.

Either course 103 or 104 may be taken independently of the other. Course 1 or its equivalent is a prerequisite for courses 103, 104, 106, 107, 108, 152, 153.

105. Research in Psychology. Cr. to be arranged. Mr. Jastrow, Mr. Hull.

107. Abnormal Psychology. II; 3 cr. Mr. Jastrow.

108. Psychology of the Emotions. II; 3 cr. Mr. Jastrow.

115. Vocational Aptitude Tests. I; 3 cr. Prerequisites: Either 103 or 104. Seniors or graduate students who have had Economics 130, will be admitted provided they take 103 simultaneously. Mr. Hull.

117. Genetic Psychology. I; 2 cr. Mr. Jastrow.

152. Comparative Behavior. I; 2 cr. An introduction to current theories of behaviorism. Mr. Warden.

153. Animal Learning. II; 2 cr. Mr. Warden.

For Graduates

210. Psychological Seminary. Yr.; 1 cr. Mr. Jastrow.

212. Seminary in Analytical Psychology. II; 2 cr. Mr. Sharp.

214. Psychological Seminary. II; 2 cr. Mr. Hull.

PHYSICAL EDUCATION

Professors Jones (Chairman), Lowman (Director of Men's Gymnasium), Meanwell, Trilling (Director of Women's Gymnasium); Associate Professors Elsom, H'Doubler; Assistant Professors Carns, Lippitt, Richards, Schlatter; Instructors Berg, Brownell, Burke, Gall, Hunter, Keay, Klein, Linden, MacKinnon, Mosscrop, Rice, Steinauer, Vail, Wesson; Assistants Borgelt, Brader, Carpenter, Driver, Hitchcock, Leitz, Smith, Trumpf.

See School of Education p. 339, and Department of Physical Education, p. 501.

REQUIRED FOR ALL FRESHMEN AND SOPHOMORES

1. Developmental Exercises. Yr.; 1 cr. for men, 2 cr. for women. Prescribed for all freshmen and such sophomores as have not attained the requisite development. A study of the laws of personal and general hygiene is included in this course.

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.

PROFESSIONAL COURSES

⋆**19. Practice Teaching.** Yr.; 2 cr. Mr. Lowman, Miss Carns.

⋆**20. General Technique.** For professional students. The practice course for students majoring or minoring in physical education. Parallel to course 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.

***21-35. Special Organization and Methods for Men.** Cr. to be arranged. 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. 27. Baseball. 29. Football—American. 30. Soccor, field hockey, and ice hockey. 34. Boxing, fencing, and wrestling. 35. Rowing. 21, 22, 23, 24 required for major or certificate. Prerequisite: personal skill in the performance of each activity acquired in course 20 or its equivalent.

***40-54. Special Organization and Methods for Women.** 1. cr. 41. Gymnastics (tactics, calisthenics, apparatus). 42. Plays and games. 43. Elementary folk dancing. 44. Basketball and field hockey. 45. Swimming and boating. 46. Theory of dancing. 47. Baseball and track and field. 48. Rowing. 49. Advanced folk dancing. 50. Fencing, archery and tennis. 41, 42, 43, 44 required for major or certificate. Prerequisite: personal skill in the performance of each activity acquired in course 20 or its equivalent.

GENERAL COURSES

For Undergraduates

5. Health and Disease (Pathology 5). II; 2 cr. Mr. Clark.

16. First Aid to the Injured. II; 1 cr. Mr. Elsom.

***17. Athletic Training and First Aid.** II; 2 cr. Open only to Physical Education minors. Mr. Meanwell, Mr. Elsom.

55. History and Principles of Physical Education. I; 3 cr. Prerequisites: Physics 1 (first semester), Zoology 1b. Mr. Elsom.

***56. Kinesiology.** I; 3 cr. Prerequisites: Physical Education 20 and Anatomy 120. Miss Carns.

***58. Human Mechanics.** I; 2 or 3 cr. For men majoring or minoring in Physical Education. Mr. Schlatter.

59. Nature, Function, and Organization of Play. I; 3 cr. Prerequisite: Psychology 1. Mr. Lowman.

***71. Scouting and other Adolescent Organizations. II;** 2 cr. Prerequisites: Psychology 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.

***90. Principles of Teaching and Adaptation.** I; 3 cr. Prerequisites: Physical Education 20, 56, and 59 or 55. Miss Trilling.

For Undergraduates and Graduates

***107. Physiology of Exercise (Physiology 107).** I; 3 cr. Prerequisites: Physical Education 56 and Physiology 105 or 115. Mr. Eyster, Mr. Dawson, Mr. Meek.

***114. Physical Examination. (Clinical Medicine 114.)** II; 3 cr. Prerequisites: Anatomy 120 and Physiology 105 or 115. Mr. Evans.

***163. Gymnastic Therapeutics.** Yr.; 2 cr. Prerequisites: Anatomy 120 and Physical Education 56. Either preceded by or taken in conjunction with Physical Education 107 and 114. Mr. Elsom, Miss Lippitt.

***168. Organization and Administration of Physical Education.** II; 2 cr. Prerequisites: Physical Education 20, 55. Mr. Lowman and Miss Trilling.

PHYSICS

Professors Mason, Mendenhall, Snow (Chairman); Associate Professors Ingersoll, Roebuck, Terry; Assistant Professors Steve, Williamson; Instructors Eldridge, Hamer, Petersen, Phelps, Wahlin; Assistants Anderson, DuBridge, Giddings, Green, Horton, Jameson, Meacham, Morris, Pettis, Rollefson, Rouse, Soller, Studer, Wackmann.

Fellow, Mr. Dowling.

Scholar, Mr. Laird.

Research Assistants, Mr. Busse, Mr. DeVinney, Mr. Godfrey, Mr. Morgan.

Radio Assistants, Mr. Miller, Mr. Kelly.

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*Does not count toward the requirements for graduation from the College of Letters and Science except for students in the Physical Education Course.

In order to adapt the instruction in physics to students of different degrees of preparation, the introductory course is given in two sections designated as courses 1 and 31. 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 31, which presupposes a year of physics in the high school, is more fundamental in character and furnishes a better preparation for courses 2-15.

Following these general courses nine others of an elementary character are given for all who desire a further knowledge of the subjects treated in courses 1 and 31 and for those who are preparing to teach. Courses 115-124 are more advanced in nature and lead to courses 211-220 which are strictly graduate in character and are designed for those who are making a special study of the higher branches of physics.

Major

The minimum amount of work acceptable for a major study in Physics is twenty credits in approved courses in addition to the University requirement of four credits for the thesis.

For Undergraduates, College of Letters and Science

1. General Physics. Yr.; 5 cr. For those who have had no high school preparation in physics. (See also course 31.) Mr. Snow, Mr. Ingersoll, and staff.

2. Heat. I; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or 31. Mr. Roebuck, Mr. Petersen.

3. Light. II; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or 31. Mr. Roebuck, Mr. Petersen.

4. Electricity and Magnetism. Yr.; 3 cr. Lecture-conference and laboratory. Prerequisite: Physics 1 or 31. Mr. Wahlin.

7. Photography. II; 2 cr. Lectures and laboratory. Mr. Williamson.

8. Elements of Radio-telegraphy. II; 3 cr. Lectures and laboratory. Prerequisite: Physics 1 or 31. Mr. Terry.

10. Laboratory Arts. I; 1 cr. Glass blowing and shop work. Required for courses 100 and 220. Mr. Roebuck, Mr. Davis, Mr. Foerst.

15. Radio-activity and Discharge Through Gases. I; 2 cr. Laboratory and conference. Prerequisite: Physics 1 or 31. Mr. Williamson.

31. General Physics. Yr.; 5 cr. For those who have had a year's course in physics in high school. Mr. Roebuck, Mr. Steve, and staff.

90. The Teaching of Physics. II; 2 cr. Mr. Steve.

100. Thesis. Yr.; 2 cr. Mr. Ingersoll, Mr. Roebuck, Mr. Terry.

For Undergraduates, College of Engineering

51. General Physics. I; 5 cr. Mechanics, sound, and light Mr. Ingersoll, Mr. Wahlin, and staff.

52. General Physics. II; 5 cr. Heat, electricity, and magnetism. Mr. Ingersoll, Mr. Wahlin, 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 Physics 53. Mr. Terry, Mr. Ingersoll, and staff.

55. Advanced Electricity and Magnetism. I; 3 cr. Required of juniors in electrical engineering. Mr. Terry, Mr. Wahlin.

56. Advanced Electricity and Light. II; 3 cr. Continuation of Physics 55. Mr. Terry, Mr. Roebuck, Mr. Petersen, Mr. Wahlin.

For Undergraduates, College of Agriculture

61. General Physics. I or II; 5 cr. Required of agricultural students. Mr. Steve, Mr. Ingersoll and staff.

65. General Physics. Yr.; 3 cr. Required of sophomores in Home Economics. Mr. Snow, Miss Phelps, Mr. Ingersoll, and staff.

For Undergraduates and Graduates

115. Introduction to Thermodynamics. I; 3 cr. Lectures. Mr. Roebuck.

116. Introduction to the Theory of Electricity. I; 3 cr. Lectures. Mr. Terry.

117. Physical Optics. II; 3 cr. Mr. Ingersoll, Mr. Petersen.

118. Kinetic Theory of Gases. I; 3 cr. Lectures. Mr. Ingersoll.

120. Colloquium. Yr. Mr. Mendenhall.

124. Mathematical Theory of Heat Conduction. II; 3 cr. Lectures. Mr. Ingersoll.

For Graduates

211. Advanced Dynamics. Yr.; 3 cr. (Offered 1925-26.) Mr. Mason.

212. Seminary. Electron Theory of Solids. Yr.; 3 cr. (Offered 1925-26.) Mr. Mendenhall.

213. Seminary. Statistical Methods. Yr.; 3 cr. Mr. Mason.

214. Application of Thermodynamics to the Properties of Matter. II; 3 cr. (Offered 1925-26.) Mr. Roebuck.

215. Theory of Electricity. Yr.; 3 cr. Mr. Mason.

216. Electromagnetic Theory of Light. Yr.; 3 cr. (Offered 1925-26.) Mr. Mendenhall.

219. Radiation Theory and Atomic Structure. Yr.; 3 cr. Mr. Mendenhall.

220. Graduate Research. Yr. Mr. Mendenhall, Mr. Mason, Mr. Ingersoll, Mr. Terry, Mr. Roebuck.

For courses in mechanics, harmonic analysis, etc., see announcement by the Department of Mathematics.

PHYSIOLOGY

Professors Meek (Chairman), Eyster; Assistant Professor Dawson; Instructors, Hodges, Johnson, McCrea; Assistants Bassuener, Wilson.

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. McCrea 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. McCrea, Mr. Wilson, Mr. Bassuener.

For Undergraduates and Graduates

105. Medical Physiology. Yr.; I; 2 cr.; II; 7 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: Anatomy 110, 121, and 126, and Physiological Chemistry 104. Mr. Eyster, Mr. Meek, Mr. Dawson, and assistants.

107. 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 Johnson, and assistants.

115. Physiology. Yr.; I; 2 cr. II; 5 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.

118. Advanced Physiology and Research. Yr.; credit according to work done. Mr. Eyster, Mr. Meek, Mr. Dawson.

120. Journal Club. Yr.; 1 cr. Mr. Meek.

121. History of Medicine. I; 1 cr. Prerequisite: Physiology 105 or 115. Mr. Dawson.

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.

PHYSIOLOGICAL CHEMISTRY

Professor Bradley (Chairman); Assistant Professor Sevringhaus; Student Assistants Heath, Hannon, Hermann, Paull.

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, Mr. Sevringhaus, and assistants.

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisite: general chemistry. Mr. Bradley, Mr. Sevringhaus, and assistants.

117. Advanced Physiological Chemistry and Research. II; credit according to work done. Designed for teachers of chemistry or for physicians and students of medicine who desire a wider experience in experimental chemistry than can be gained in course 104. Prerequisite: Course 104. Mr. Bradley, Mr. Sevringhaus.

120. Journal Club. Yr.; 1 cr. Mr. Bradley.

POLITICAL SCIENCE

Emeritus Professor Parkinson; Professors Hall, Ogg (Chairman); Associate Professor Potter; Assistant Professor MacGregor; Instructors Harris, Saunders, Sharp; Assistants Carroll, Helble, Paddock, Weeks.

Scholar, Mr. Murray.

Fellow, Mr. Hill.

The courses offered by the Department of Political Science are designed to afford a well-rounded view of the nature and activities of government and to give substantial acquaintance with public affairs, both national and international. Some of them are intended primarily to furnish information requisite for intelligent citizenship, along with the mental training which forms a part of any liberal education. Others involve more specialized study, with a view to expert knowledge of legislation, administration, judicial procedure, diplomacy, and public law. The courses are open, in general, to students above the freshman year, and all are elective. Course 7, which is given every semester, is the normal introduction to the work of the department. It is intended primarily for students in their sophomore year and ought, if possible, to be taken in that year. With slight exceptions, it is a prerequisite for courses 105, 110, 116, 117, 122, 123, 129, 135, and 143, is recommended as affording desirable preparation for all other courses. Courses which can be taken to advantage immediately after it include 2, 3, 32, 101, 105, 110, 112, 115, 121, 122, 125, 127, 131, 134, and 143 according to the interest of the student.

Undergraduate Major

The minimum requirement for an undergraduate major in political science is twenty-one semester credits in addition to the senior thesis (four credits). The maximum number of credits in the department that can be counted toward graduation is forty. A student will do well to include in the major courses 7, 101, 105, 112 or 122, 118, 125, 127 and 128. Students who expect to major in the department should take courses 101 and 112 not later than the junior year. The thesis may be written in any one of the fields designated below in groups I-V. Ordinarily, at least two courses in the field selected are required as a background for the thesis.

The Master's Degree

The general requirements for the master's degree, as authorized by the Graduate School, are stated in a later section of this catalogue (see Index). Candidates for the master's de-

gree in political science who have completed an undergraduate major in political science in this University or in any other institution of approved standing are required to present from the courses numbered 100 and above given in this department, as a minimum, a number of credits equal to one-half of the total graduate credits offered in support of the candidacy for the degree. The remaining work may be done in political science or in related subjects, or in both. Candidates who have not had the equivalent of an undergraduate major in political science are required to devote more—in some cases all—of their time to this subject. If their preparation is notably inadequate, they are required to give more than one year to the work for the degree, the minimum addition being a summer session.

The Doctor's Degree

The general requirements for the doctor's degree, as laid down by the Graduate School, are presented in a later section of this catalogue (see Index). Candidates in political science are assumed to be grounded in American government and constitutional law (at least the equivalent of courses 7, 112 and 122), and in general political science to the extent to which that subject is covered in course 101. Any deficiency in this general preparation must be made up during the first year of graduate work.

1. FIELDS TO BE COVERED

Candidates will be examined in seven fields selected, under restrictions indicated, from the following three groups:

GROUP A

(Both fields required.)

1. History of Political Thought; 2. Comparative Government.

GROUP B

(Any three fields approved by the Department.)

3. International Law; 4. Diplomacy (Organization and Practice); 5. World Politics; 6. National Government and

Constitutional Law of the United States; 7. State and Local (including municipal) Government; 8. Administrative Law; 9. Legislation; 10. Roman Law and General Legal History.

GROUP C

(Two fields selected from the following list offered by other departments. Substitutions may be made in special cases by authority of the department.)

1. Ancient history; 2. Medieval History; 3. Modern European History; 4. English History; 5. American Colonial History; 6. History of the United States; 7. Economic Theory; 8. History of Economic Thought; 9. Statistics; 10. History of Economic or Social Institutions; 11. Finance (Public and Private); 12. Labor; 13. Land Economics; 14. Public Utilities; 15. Sociology; 16. History of Philosophy; 17. Logic and Scientific Method; 18. Metaphysics; 19. Ethics; 20. Psychology; 21. Personal and Real Property; 22. Contracts and Torts.

2. EXAMINATIONS

Candidates must pass two examinations in political science—designated as preliminary and final—separated by an interval of not less than seven months. Admission to candidacy for the degree will be determined by the preliminary examination. This examination will range over the various major fields which the candidate offers, and he may be excused by the department from further examination in those fields (not including the field in which the thesis is written) in which he passes the preliminary examination with distinction. The preliminary examination will be both written and oral. The final examination will cover (1) the thesis and the field in which it lies, (2) any of the candidate's other fields not covered in the preliminary examination, and (3) any field so covered upon which the candidate failed to satisfy the department at the time of the preliminary examination. The final examination will be oral; but it may be supplemented with written examinations.

3. THESIS

The candidate must present a thesis which shows ability to carry on fruitful research and is itself a contribution to scholarship within the field. The thesis must be in such literary form as to make it suitable for publication.

I. GENERAL POLITICAL SCIENCE

101. General Political Science. I and II; 3 cr. A survey of the entire field of political organization and practice. Mr. Saunders.

165. History of American Political Ideas. II; 2 cr. An historical and analytical survey. Mr. Saunders.

245. History of European Political Thought. Yr.; 2 cr. The subject is covered in the first semester to the early eighteenth century; in the second, thence to the present day. Mr. Ogg.

256. Seminary in Recent and Contemporary Political Thought. II; 2 cr. (Omitted 1923-24). Mr. Ogg.

II. AMERICAN GOVERNMENT

7. American Government and Politics. I and II; 4 cr. Briefly covers national, state, and local government, and also political parties. Prerequisite for certain courses as indicated above. Mr. Sharp and assistants.

13. Municipal Government. I; 3 cr. Chiefly American, but with introductory survey of European municipal organization. Mr. Harris.

105. State Government in the United States. I and II; 3 cr. Mr. Saunders.

114. Practical Problems of Municipal Government. I; 3 cr. Mr. MacGregor.

115. Social Problems of Municipal Government. II; 3 cr. Mr. MacGregor.

116. State Administration in the United States. I; 3 cr. Mr. Harris.

117. Federal Administration in the United States. II; 3 cr. Mr. Harris.

122. Political Parties and Party Problems. I and II; 3 cr. Mr. Harris.

123. The Foreign Service of the United States. I; 2 cr. The organization and workings of the diplomatic and consular services, and consultation regarding entrance to the foreign service. Mr. Potter.

126. Principles of Legislation. I; 2 cr. Mr. Hall.

129. Practical Problems of Democracy. I or II; 2 cr. (Omitted 1923-24). Mr. Hall.

134. Local Rural Government in the United States. II; 2 cr. Mr. Saunders.

143. Introduction to Public Administration. I; 2 cr. Mr. Harris.

258. Seminary in Administration. Yr.; 2 cr. (Omitted 1924-25).

III. FOREIGN AND COMPARATIVE GOVERNMENT

121. Dependencies and their International Status. II; 2 cr. Mr. Potter.

124. Federalism in the British Dominions. II; 2 cr. Mr. Sharp.

127. Government and Politics of England. I; 3 cr. Mr. Ogg.

128. Governments and Politics of Continental Europe. II; 3 cr. The systems chiefly dealt with are the French, Italian, German, Swiss, and Russian. Mr. Ogg.

241. Seminary in Comparative Government. Yr.; 2 cr. Mr. Ogg.

IV. INTERNATIONAL ORGANIZATION AND RELATION

120. World Politics: The Far East. I; 2 cr. Mr. Ogg.

125. Introduction to World Politics. II; 3 cr. A general survey of international relations since the opening of the nineteenth century, with stress on present day conditions. Mr. Sharp.

131. World Politics: Latin America. I or II; 2 cr. Mr. Potter.

133. World Politics: Africa and the Near East. II; 2 cr. Mr. Ogg.

137. International Organization. I; 2 cr. Mr. Potter.

160. Problems in International Law and Diplomacy. Yr.; 2 cr. Mr. Potter.

255. Seminary in World Politics. I or II; 2 cr. (Omitted 1923-24).

V. PUBLIC LAW AND JURISPRUDENCE

2. Elementary Law. II; 3 cr. A general introduction to private law. Mr. Hall.

25. Law of the Press. II; 2 cr. Intended primarily for students of journalism. Mr. Rice.

109. Roman Law. I. 3 cr. Mr. Sharp.

111. Jurisprudence. I or II; 3 cr. Open to students who have had an elementary course in law. (Omitted in 1924-25.)

112. Introduction to the Constitution. I; 3 cr. An introductory course in constitutional law. Mr. Hall.

118. Principles of International Law. I; 3 cr. Mr. Potter.

119. International Law as Interpreted by the Courts. II; 3 cr. A study of principles and theory as illustrated by cases. Mr. Potter.

142. Law of Public Service Companies. II; 2 cr. Mr. Hall.

201. Administrative Law I (Public Officers and Elections). I; 2 cr. Prerequisites: Courses 7, 112. Mr. Hall. (Omitted 1924-25.)

202. Administrative Law II (General Principles). II; 2 cr. Prerequisites: Courses 7, 112. Mr. Hall.

203. Administrative Law III (Taxation). I; 2 cr. Prerequisites: Courses 7, 112. (Omitted 1924-25.) Mr. Hall.

204. Administrative Law IV (Municipal Corporations). II; 2 cr. Prerequisites: Courses 7, 112. Mr. Hall.

261. Seminary in Legislation and Constitutional Law. II; 2 cr. Mr. Hall.

262. Constitutional Law. Yr.; 3 cr. Mr. Brown.

ROMANCE LANGUAGES

Emeritus PROFESSOR OWEN; PROFESSORS GIESE†, SMITH, ZDANOWICZ (Chairman); ASSOCIATE PROFESSORS CHEYDLEUR, COOL, ORTEGA, REED‡ SCHLATTER; ASSISTANT PROFESSORS ATKIN, BRADLEY, ERNST†, GAY, GILLEN, JOHNSON†, LIPARI, LYON, MICHELL; LECTURER LEBERT; INSTRUCTORS ACTON, ARVIDSON, BLANCO, BROOKS, CADENAS, CORNWELL, DEXTER*, FLINT, GARWOOD, C. H. GREENLEAF, J. H. GREENLEAF, GRUNDLER, JORDAN, LANGER, MOTT, PHILLIPS, ROGERS, SCALLON, H. B. SMITH, SPRAGUE, TILDEN, TREILLE, WOFSY, WOOD; ASSISTANTS BODENSIECK, COON**, DOUCHET, DUNSTAN, FISHER, FLINT, JAMIESON, LEFORT, LLOYD, MCGILVARY*, MERCIER, MIOCHE, RICKS, R. SMITH, STOTE, TAVERNIER, WINSLOW.

FELLOW, MR. MACRAVEY.

CRANE FELLOW, MME. VACQUIER.

SCHOLAR, MISS BENNETT.

FRENCK SCHOLARS, MLLE DOUCHET, MLLE TAVERNIER.

The elementary courses in French and Spanish have been planned to meet the needs of those who have begun the language in high school, as well as those who take it up for the first time in college. One unit at high school is assumed to be the equivalent of one semester (4 credits) of college work. Courses 1 and 10 are consecutive general introductory courses.

French courses 13 and 15, and Spanish 14, 15, and 20, are second year practice courses intended to supplement the training in French or Spanish 10, which emphasizes the acquiring of a reading knowledge. Any one of them may be taken only in conjunction with some other course in the language, except by special permission. French 16, 124, 127, 227, and Spanish 25 and 116, afford more advanced training in writing and speaking, and are designed as supplementary courses for those aiming at a thorough knowledge of the language.

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†On leave of absence 1923-24.

‡On leave of absence second semester 1923-24 and first semester 1924-25.

*Appointment for second semester 1923-24.

**Appointment for first semester 1923-24.

French 20 and 21 are both third year courses. Only one may be taken for credit, as prescribed below. (See under 20 and 21.) Course 20 is mainly a reading and translation course. Course 21 includes translation, study of the literary aspect of the works read, and literary history. One of these two courses or its equivalent is prerequisite to advanced courses in French literature.

Spanish 21 is similarly designed to be introductory and prerequisite to other courses in Spanish literature.

Courses numbered between 100 and 200 are open both to undergraduates and graduates, the latter ordinarily doing additional work. Courses numbered above 200 are open only to graduate students except in unusual cases. At least one course of this group is required of all candidates for the M. A. who major in the department. The advanced courses are planned to cover adequately, in successive years, the principal periods and genres of Romance literatures, medieval and modern.

Courses in Old French, Provencal, and other philological courses are grouped under Romance Philology.

Students intending to specialize in Romance languages are urged to elect some related courses in history, English and Classical literature, and philosophy. For satisfactory work in Romance philology some knowledge of Latin is indispensable.

Major

Students may major in French, Spanish, or Italian. In each case a minimum of 24 credits in advance of the first year is required.

Students expecting to teach French as their major must take a minimum of twenty credits in advance of second year. They are required to take the following French courses: 90, 190, four credits in composition and conversation with an average grade of B, and at least six credits in French literature.

Students expecting to teach Spanish as their major must take a minimum of 20 credits in advance of second year. They are required to take at least four credits in composition and conversation with an average grade of B, the teachers course (French 90), and at least 6 credits in Spanish literature.

Minor

For a minor in French, Spanish, or Italian, there is required a minimum of twelve credits in advance of second year. At least two credits in composition or conversation and at least three credits in some general course of literature must be taken.

Clubs

French and Spanish clubs at the university afford students an opportunity to participate in short plays, French and Spanish games, and to converse, under the most natural conditions possible, in the language in which they are interested. Modern and classical plays are presented from time to time.

New members are admitted to the French club upon successful competition in a try-out given by the old members. For the Spanish club there is no try-out, but students must indicate their purpose to attend regularly.

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. First Semester French. I or II; 4 cr. Mr. Cheydleur and staff.

1b. Second Semester French. I or II; 4 cr. Prerequisite: French 1a or equivalent. Mr. Cheydleur and staff.

10a. Third Semester French. I or II; 3 cr. Prerequisite: French 1b or equivalent. Mr. Bradley and staff.

10b. Fourth Semester French. I or II; 3 cr. Prerequisite: French 10a or equivalent. Mr. Bradley and staff.

13. Rapid Reading. Yr.; 1 cr. Except by special permission, to be taken only with French 10a or 10b. Mr. Bradley and staff.

15. Elementary Conversation and Composition. Yr.; 2 cr. Supplementary course. To be taken with French 10a or 10b. Mr. Bradley and staff.

16. Intermediate Conversation and Composition. Yr.; 2 cr. Prerequisite: French 10b or its equivalent. Miss Gay and staff.

18. French Journalism. Yr.; 1 cr. in French and 1 cr. in Journalism. Prerequisite: French 10a and sophomore standing. (Omitted 1923-24.) Mr. Ernst.

20. Third Year Reading. Yr.; 3 cr. Prerequisite: French 10b or equivalent; not open to students whose grade was 85 or above. (See 21.) Students offering high school or college preparation will be transferred to French 21 if examination warrants it. Miss Cornwell, Miss Gay, Mr. Gillen, Mr. Grundler, Mr. Jordan, Miss Langer, Miss H. Smith.

90. Theory and Practice of Teaching French and Spanish. I or II; 2 cr. Mr. Smith, Miss Flint.

For Undergraduates and Graduates

124. Composition and Conversation. Yr.; 2 cr. Open to students who have had French 16, or French 15 with grade of B.. Miss Gay, Mr. Lebert, Mlle Treille.

127. Composition and Style. Yr.; 2 cr. Prerequisite: two years of composition or equivalent. Conducted in French. Mrs. Greenleaf.

190. Phonetics. I or II; 2 cr. Theory of the French sounds with practice in pronunciation. Mrs. Greenleaf.

For Graduates

3. Graduate Reading. Yr.; no credit. Mr. Atkin.

227. Graduate Composition. Yr.; 1 cr. Conducted in French. Mrs. Greenleaf.

I. LITERATURE

Course 20 or 21, or the equivalent, is prerequisite to all other courses in French literature.

For Undergraduates

21. Elementary Survey. Yr.; 3 cr. Prerequisite: Grade of 85 or above in French 10b. Students offering high school or college preparation will be transferred to French 20 if examination shows inadequate preparation. Mr. Atkin, Mr. Bradley, Mr. Cheydleur, Miss Cornwell, Miss Gay, Mr. Gillen, Mr. Michell.

50. Masterpieces of Romance Literature in Translation. (Comp. Lit. 50). Yr.; 2 cr. (This course does not carry language credit.) Mr. Michell.

For Undergraduates and Graduates

100. Thesis Course. Yr.; 2 cr. Open only to seniors and graduates. Four sections; 1. Flaubert, Mr. Rogers; 2. Anatole France, Miss H. Smith; 3. Molière, Mr. Zdanowicz; 4. Chateaubriand, Mr. Gillen.

122. French Literature of the Nineteenth Century. Yr.; 3 cr. Mr. Atkin.

123. Modern French Drama. Yr.; 3 cr. Mr. Smith.

125. Contemporary French Literature. Yr.; 3 cr. Mr. Rogers.

126. French Poetry. Yr.; 2 cr. Explication d'auteurs. Mrs. Greenleaf.

131. General Survey of French Literature. Yr.; 3 cr. Mr. Reed, Mr. Cheydleur.

132. French Literature of the Eighteenth Century. Yr.; 2 cr. (Omitted 1923-24.) Mr. Michell.

133. Victor Hugo. I; 2 cr. Mr. Michell.

134. Balzac. II; 2 cr. Mr. Michell.

136. The French Novel from the Seventeenth Century to the Twentieth. Yr.; 3 cr. Mr. Cheydleur.

137. Moliere. Yr.; 2 cr. (Omitted 1923-24.) Mr. Zdanowicz.

139. French Literature of the Seventeenth Century. Yr.; 3 cr. Mr. Zdanowicz.

For Graduates

242. Old French Epic Poetry. Yr.; 2 cr. (Omitted 1923-24.) Mr. Smith.

243. Seminary in Old French Literature. Yr.; 2 cr. A general survey of the Brittany Cycle, with special emphasis on Tristan, Marie de France, and Chrètien de Troyes. Miss Gay.

248. Medieval Literature (Comp. Lit. 248). Yr.; 2 cr. (Omitted 1923-24). Mr. Reed.

250. The Renaissance in Romance Countries. Yr.; 2 cr. (Omitted 1923-24). Mr. Zdanowicz.

252. Seminary in Ancient French Drama. Yr.; 2 cr. (Omitted 1923-24). Mr. Smith.

253. Seminary in French Literature. Yr.; 2 cr. Classicism. Mr. Zdanowicz.

254. Seminary in French Literature. Yr.; 2 cr. Realism in French Drama. Mr. Smith.

256. Seminary in Modern French Criticism. Yr.; 2 cr. (Omitted 1923-24). Mr. Atkin.

ITALIAN

Except by permission of the instructor, Italian 10 is a prerequisite for all courses in Italian literature, which are conducted mostly in Italian.

I. LANGUAGE

For Undergraduates

1a. First Semester Italian. I; 4 cr. Mr. Lipari.

1b. Second Semester Italian. II; 4 cr. Mr. Lipari.

10. Second Year Italian. Yr.; 3 cr. Prerequisite: One year of college Italian or its equivalent. Mr. Lipari.

II. LITERATURE

For Undergraduates and Graduates

102. Italian Literature of the Eighteenth and Nineteenth Centuries. Yr.; 3 cr. (Omitted 1923-24.) Mr. Lipari.

152. Italian Literature of the Fifteenth and Sixteenth Centuries. Yr.; 3 cr. Mr. Lipari.

160. Dante (The Divine Comedy). Yr.; 3 cr. Mr. Liparì.

161. Italian Literature of the Thirteenth and Fourteenth Centuries, (excluding the Divine Comedy). Yr.; 3 cr. (Omitted 1923-24.) Mr. Lipari.

PORTUGUESE

271. Portuguese Language and Literature. Yr.; 2 cr. Prerequisite: 3 years of College Spanish. The course is not repeated in identical form any two consecutive years. (Omitted 1923-24.) Mr. Reed.

SPANISH

I. LANGUAGE

For Undergraduates

1a. First Semester Spanish. I or II; 4 cr. Mr. Lyon and staff.

1b. Second Semester Spanish. I or II; 4 cr. Prerequisite: Spanish 1a or equivalent. Mr. Lyon and staff.

10a. Third Semester Spanish. I or II; 3 cr. Prerequisite: Spanish 1b or equivalent. Mr. Cool and staff.

10b. Fourth Semester Spanish. I or II; 3 cr. Prerequisite: Spanish 10a or equivalent. Mr. Cool and staff.

14a. Spanish Commercial Letter-Writing. I or II; 1 cr. Supplementary to 10a and not to be taken alone without permission. Mr. Cool and staff.

14b. Spanish Commercial Letter-Writing. I or II; 1 cr. Supplementary to 10b and not to be taken alone without permission. Mr. Cool and staff.

15. Elementary Conversation. Yr.; 1 cr. Supplementary course to be taken only in connection with Spanish 10a or 10b. Mr. Ortega and staff.

17. Spanish Journalism. Yr.; 1 cr. in Spanish and 1 cr. in Journalism. Prerequisite: Spanish 10a and sophomore standing. (Omitted 1924-25.) Mr. Ortega.

20. Elementary Conversation and Composition. Yr.; 2 cr. Prerequisite: Spanish 1b or equivalent. Not open to students who have had Spanish 10b. Mr. Ortega and staff.

25. Intermediate Conversation and Composition. Yr.; 2 cr. Prerequisite: Spanish 10b or equivalent. Mr. Ortega and staff.

For Undergraduates and Graduates

116. Advanced Conversation and Composition. Yr.; 2 cr. Prerequisite: Three years of college Spanish. Mr. Ortega.

II. LITERATURE

Course 21 or its equivalent is prerequisite to all other courses in Spanish literature.

21. Elementary Survey. Yr.; 3 cr. Prerequisite: Spanish 10b. Mr. Ortega and staff.

For Undergraduates and Graduates

102. Spanish Contemporary Novel and Drama. Yr.; 3 cr. Conducted mainly in Spanish. Mr. Ortega.

103. Spanish Lyric Poetry. II; 3 cr. Conducted mainly in Spanish. Mr. Ortega.

104. Don Quijote. Yr.; 3 cr. Mr. Reed, Mr. Cool.

105. Survey of Eighteenth and Nineteenth Century Spanish Literature. Yr.; 3 cr. (Omitted 1923-24.) Mr. Lyon.

106. Spanish Drama. Yr.; 2 cr. Spanish drama of the eighteenth and nineteenth centuries. (Omitted 1923-24.) Mr. Lyon.

107. Galdos. I; 3 cr. Prerequisite: Mr. Oretga.

111. The Spanish Novel. Yr.; 2 cr. From its origins through the nineteenth century. Mr. Cool.

150. Spanish Civilization. I; 2 cr. Lectures and assigned reading. Conducted in Spanish. Mr. Solalinde.

For Graduates

205. Seminary in Spanish Literature. Studies in eighteenth and nineteenth century Spanish literature. Yr.; 2 cr. Mr. Lyon.

209. Seminary in Spanish Literature. II; 2 cr. (Omitted 1923-24.) Mr. Ortega.

270. Seminary in Old Spanish. Yr.; 2 cr. The course is not repeated in identical form any two consecutive years. Mr. Reed.

ROMANCE PHILOLOGY

For Graduates

240. Old French. Yr.; 2 cr. An introductory course. Mr. Schlatter.

244. Old Provencal. Yr.; 2 cr. (Omitted 1923-24.) Mr. Reed.

246. Seminary in French Paleography. Yr.; 2 cr. (Omitted 1923-24.) Mr. Smith.

272. Origins of the Lingua Vulgaris. Yr.; 2 cr. (Omitted 1923-24.) Mr. Reed.

273. Comparative Romance Philology. Yr.; 2 cr. (Omitted 1923-24.) Mr. Reed.

SCANDINAVIAN LANGUAGES

PROFESSOR OLSON.

For Undergraduates

1. First Year Norse. Yr.; 4 cr. Primarily for freshmen.

2. Second Year Norse. Yr.; 4 cr. Literary selections. 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 cr. A continuation of course 2 or 3.

5. Ibsen's Dramatic Poems. (Brand and Peer Gynt.) Yr.; 2 cr.

6. History of Dano-Norwegian Literature. Yr.; 2 cr. Broch og Seip's *Litteraturhistoric* and *Boken om Norge*, V.

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.

73. Ibsen's Social Dramas. II; 2 cr.

74. Ibsen's Brand and Peer Gynt. I; 2 cr.

Courses 70, 71, 73, and 74 are lecture courses and a knowledge of the Scandinavian language 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 langauages.

108. Old Norse. Yr.; 3 cr. Mr. W. E. Leonard.

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 (Acting Chairman), Wolfenson††; Acting Instructor Zelson.

The various courses in 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 philosophy, comparative religion, and comparative literature.

4. The student of ancient history, anthropology, and sociology, desiring to come into contact with the earliest monuments and records.

††On leave of absence 1923-24.

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.

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, 25 Jewish History and Literature, 26 Geography and Archaeology of Palestine, and 28 Survey of Semitic Literature (Hebrew, Arabic, and other Oriental).

The language work of the department may be begun with Hebrew, Hellenistic Greek, or Arabic.

In addition to instruction in Hebrew, Aramaic, and Hellenistic Greek (the original languages of the Bible), courses are offered in Arabic, 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.

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, unless permission is first secured from the Dean and Executive Committee. Courses in Hellenistic Greek in advance of the first year may be substituted for other foreign languages to the extent of eight credits.

Undergraduate 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.

Graduate Work

See the general requirements for the M.A. and Ph.D. degrees and the circular of the Language and Literature Division of the Graduate School for details of graduate work in this department.

GENERAL COURSES, IN ENGLISH

(A knowledge of foreign language not required.)

For Undergraduates

23. Hebrew History to Solomon. I; 2 cr. Hebrew cosmology, national origins, and political and social evolution. Mr. Zelson.

24. Hebrew and Jewish History. II; 2 cr. Mr. Zelson.

25. Jewish History and Literature. Yr. or II; 2 cr. The return from the Exile; the history, literature, and laws of the Jews to modern times. Mr. Zelson.

26. Historical Geography and Archaeology of Palestine. Yr.; 1 or 2 cr. Mr. Kelly.

28. Survey of Semitic Literature. II; 2 cr. The masterpieces of Hebrew, Arabic, and general Semitic literature in English. (Omitted 1923-24.) Mr. Wolfenson.

SEMITIC LANGUAGES

For Undergraduates

1. Elementary Hebrew. Yr.; 4 cr. Mr. Zelson.

2. Elementary Hebrew. Yr.; beginning II; 2 cr. This course covers the same ground as the first semester of course 1. Mr. Kelly.

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. Zelson.

31. Elementary Yiddish. I; 3 cr. A knowledge of German or some acquaintance with spoken Yiddish in prerequisite. Mr. Zelson.

32. Advanced Yiddish. II; 3 cr. Course 31 or a reading knowledge of Yiddish is prerequisite. Mr. Zelson.

For Undergraduates and Graduates

104. Advanced Hebrew. Yr.; 2 cr. Includes post-biblical and modern Hebrew literature. Mr. Zelson.

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. Kelly.

112. Elementary Arabic. Yr.; 3 cr. Mr. Zelson.

113. Advanced Arabic. Yr.; 2 cr. Mr. Kelly.

114. Elementary Assyrian. Yr.; 2 cr. Mr. Kelly.

115. Talmud. Yr.; 2 cr. (Omitted 1923-24.) Mr. Wolfenson.

127. The Psalms—Books I and II. Yr.; 2 cr. Mr. Kelly.

129. Biblical Aramaic; Syriac. Yr.; 2 cr. Mr. Zelson.

For Graduates

209. Advanced Hebrew Syntax. I; 2 cr. Mr. Kelly.

210. Advanced Hebrew Etymology. I; 2 cr. Historical and comparative grammar are introduced. (Omitted 1923-24.) 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, Mr. Wolfenson.

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. Kelly.

117. 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. Kelly.

120. The Book of John. Yr.; 2 cr. Mr. Wolfenson. (Omitted 1923-24.)

For Graduates

221. Hellenistic Greek Seminary. Yr. French, German, Latin, and Syriac are necessary for the most effective work. Mr. Wolfenson, Mr. Kelly.

222. Advanced Hellenistic Greek Grammar. Yr.; 2 cr. Mr. Wolfenson. (Omitted 1923-24.)

SPEECH

Professor O'Neill††, Associate Professors Weaver (Chairman), Blanton; Assistant Professors Johnson, West; Lecturer Camp; Instructor McCarthy; Assistants Barnes, Morse, McConkey.

The courses in this department are intended to serve two main purposes: I. To educate the general student in the fundamentals of speech (private and public), covering both scientific and artistic aspects, both organized knowledge and personal proficiency. II. To prepare especially qualified students to become teachers in one or more of the following sections of this field: (a) argumentation and debate, and the composition and delivery of public speeches; (b) reading and dramatic art, both acting and producing; (c) voice training and the correction of speech disorders; (d) the psychology and pedagogy of reading and speaking. The courses are so arranged as to make possible systematic and progressive study during the sophomore, junior, and senior years. Courses in speech are not open to freshmen.

The University of Wisconsin participates in several intercollegiate contests in oratory and debate, and further opportunity for practice ouside of regular courses is to be found in local student activities in drama, oratory, and debate. Students interested in these activities should take the follow-

††On leave of absence 1923-24.

ing courses in preparation: For dramatic work, 12, 16, 17, 19, 119; for oratory, 7, 13, 105; for debate, 3, 7, 8, 11.

Courses 3, 4, 11, and 105 may be counted toward the English major.

A major can be obtained only as permitted by the provisions of the teaching major. A minor is twenty credits in selected courses approved by the chairman of the department.

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 speech, and who are definitely accepted by this department as satisfactory candidates for this major.

2. The department requirement is not less than 26 nor more than 32 credits, excluding thesis and departmental teachers courses.

For the requirements for the M.A. and Ph.D. degrees in this department see the announcements of the graduate school.

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.

3. Argumentation. I and II; 3 cr. Open to all students except freshmen. Mr. Weaver, Mr. Morse.

4. Argumentative Addresses. II; 2 cr. Continuation of 3. Written argument. Prerequisite: Speech 3. (Not offered 1923-24.) Mr. O'Neill.

7. Elements of Public Speaking. I and II; 3 cr.* Open to all students except freshmen. Mr. West, Mr. Weaver, Mr. Barnes, Mr. Morse.

8. Extempore Speaking. II; 2 cr.* Open to all students except freshmen. Mr. West.

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*Only three semester hours may be credited in elementary courses. These courses are: 7, 8, and 12a. When three credits have been earned, further elementary courses may not be elected for credit.

11. Debating. II; 2 cr. Continuation of 3. Oral argument. Prerequisite: Course 3. Mr. Morse.

12a. Fundamentals of Vocal Expression. I or II; 3 cr.* Recommended to those intending to teach literature and reading. Open to all students except freshmen. Miss Johnson, Miss McCarthy.

12b. Fundamentals of Vocal Expression. I or II; 3 cr. Continuation of 12a. Prerequisite: Speech 12a or 7. Miss Johnson, Miss McCarthy.

13. Advanced Public Speaking. II; 2 cr. Prerequisite: Speech, 7, 12a, or 105. Mr. West.

16. Dramatic Expression. Yr.; 2 cr. Prerequisite: Speech 12b, or permission of instructor. Miss Johnson.

17. Public Reading. Yr.; 2 cr. Designed for those who show marked dramatic ability, and who wish to specialize in dramatic platform work. Prerequisite: Speech 16 and permission of instructor. Miss Johnson.

18. Interpretative Reading. I; 1 cr. Lecture and prescribed reading. Non-technical. Open to all students except freshmen. Miss Johnson.

19. Elementary Dramatic Production. I; 2 cr. Designed to give a general knowledge of problems involved. Text, lectures, discussion, and topics. Prerequisite: Junior standing Miss Johnson.

21. Voice Training. I; 2 cr. Open to all students except freshmen. Mr. Blanton, Miss McCarthy.

25. Correction of Speech Disorders. II; 3 cr. Mr. Blanton.

105. Speech Composition. I; 3 cr. Prerequisite: Speech 3 or 7 or one year of English composition after freshman year. Mr. O'Neill.

119. Advanced Dramatic Production. II; 3 cr. History, theory, and technique. Practice in choice of plays, direction, make-up, lighting, etc. Open only to speech majors and minors, and to graduate students.

121. Voice Science. II; 3 cr. Prerequisite: Speech 21. Mr. Weaver.

125. Advanced Correction of Speech Disorders. I; 3 cr. Mr. Blanton. Prerequisite: Speech 25.

141. Psychology of Reading and Speaking. I; 3 cr. Mr. Weaver.

190. Seminary in Teachers Problems. Yr.; 2 cr. Open only to graduates and senior majors and minors in speech. Mr. Weaver and staff.

For Graduates

201. Seminary in Voice and Speech Correction. Yr.; 2 cr. Mr. Blanton.

205. Seminary in Rhetoric and Oratory. Yr.; 2 cr. Mr. O'Neill.

ZOOLOGY

Professor Guyer (Chairman), Pearse; Associate Professor Marshall, Wagner; Lecturer Juday; Instructors Drummond, Hathaway, Noland; Assistants A. A. Boyden, M. G. Boyden, Foley, Gray, C. H. Hicks, Kenyon, Meulemans, Mossman, Pommerenke, Rankin, Sayle, H. M. Smith, Williams.

Fellow, Mr. Hisaw.

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, 104, 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, 104, 105, 111, and 119 of special interest.

Agricultural students will find courses 6, 9, 21, 110 to 113, and 119 of special interest.

1a. General Zoology. I; 5 cr. Zoology 1a and 1b combined, or either Zoology 1a or 1b combined with Botany 1, will satisfy the natural science requirement. Mr. Pearse and staff.

1b. Animal Biology. II; 5 cr. The second semester of Biology 1 (Botany 1), or Zoology 1a. Mr. Guyer and staff.

3. Elementary Zoology. I; 3 cr. For agricultural students. Mr. Wagner and staff.

6. Heredity and Eugenics. I; 2 cr. Mr. Guyer.

For other courses in heredity see 107, 115; Botany 156; Genetics 101.

9. Elementary Entomology. II; 3 cr. Mr. Marshall.

21. Ornithology. II; 2 cr. Mr. Wagner.

90. The Teaching of Zoology. I; 2 cr. Miss Weber.

100. Thesis Course. For undergraduates.

For Undergraduates and Graduates

102. Invertebrate Zoology. I; 5 cr. Prerequisite: Zoology 1a, 1b, or 3. Mr. Wagner, Mr. Noland.

103. The Vertebrates. I; 2 cr. Prerequisite: Zoology 1a, 1b, or 3. Mr. Wagner.

104. Comparative Anatomy of Vertebrates. II; 5 cr. Prerequisite: Zoology 1a, 1b, or 3. Mr. Wagner.

105. Elements of Vertebrate Embryology. I; Embryogeny. 3 cr.; II; Organogeny, 2 cr. Mr. Hisaw.

107. Evolution Problems. II; 2 cr. Mr. Wagner.

110. Entomology: Anatomy and Embryology. II; 3 cr. Mr. Marshall.

111. Microscopic Anatomy and Micro-technique. I; 3 cr. Miss Drummond.

112. Insects and Man. I; 2 cr. Mr. Marshall.

113. Forest Entomology. II; 2 cr. Mr. Marshall.

114. Anatomy and Physiology of the Cell; Nondevelopmental Phenomena. I; 2 cr. Prerequisites: Chemistry and Zoology 105 or 111. Mr. Guyer.

115. The Cell in Development and Inheritance. II; 2 cr. Prerequisite: Zoology 105. Mr. Guyer.

116. Cytology. Yr.; 3 cr. Prerequisite: Zoology 111. A laboratory course. Mr. Guyer.

117. Animal Ecology and Natural History. II; 2 cr. Prerequisite Zoology 1a, 1b, or 3. Mr. Pearse.

118. Mammalian Anatomy. I; 3 cr. Prerequisite: Zoology 1a, 1b, or 3. Mr. Wagner.

119. Animal Parasites. II; 3 cr. For medical and agricultural students and those interested in the problem of public

health. Veterinary students may take the laboratory work alone for two credits. Mr. Pearse.

122. Animal Behavior. I; 2 or 4 cr. Prerequisite: Zoology 1a, 1b, or 3. Mr. Pearse.

123. Advanced Entomology. For students who desire to continue some special line of work. Mr. Marshall.

124. Limnology. I; 2 cr. Mr. Juday.

125. Plankton Organisms. II; 2 cr. A continuation of course 124 with field work. Mr. Juday.

For Graduates

220. Seminary. Yr.; 2 cr. Mr. Guyer, Mr. Pearse.

228. Research. Yr.; cr to be arranged. Staff.

COURSE IN CHEMISTRY

J. H. MATHEWS, DIRECTOR, PROFESSOR OF CHEMISTRY.

The purpose of the Course in Chemistry is to train competent chemists for industrial, goverment and teaching positions. The United States is unquestionably the leading nation as regards chemical industries and our continued industrial supremacy is largely dependent on the ability of our universities to supply the ever increasing demand for men with adequate chemical training. Many industries are essentially chemical in character and have long employed chemists; others, because of the necessity of meeting changing conditions and keener competition, are finding it increasingly necessary to emply chemists to originate, simplify, and control plant processes.

The principal departmental bureaus of the Government employ a considerable numter of chemists, both for research and control work. All of the larger cities require skilled chemists, as do many of the various state commissions and the federal and state experiment stations. The development of agriculture is largely dependent on the services of the chemist, and trained workers are in great demand in this field. Many industries are establishing central experimental and research laboratories for the intensive study of the specific problems

relating to those industries. Positions in such laboratories are especially desirable, as they afford specialized training which leads to the attainment of especially lucrative positions. Research laboratories are being established for a great variety of purposes, and these laboratories must ever look to the universities for trained chemists. For these positions, especially, it is highly desirable that the four year course in chemistry be followed by from one to three years of graduate work. The demand for the exceptionally well trained man is steadily increasing and, whenever it is possible, the student who shows an aptitude for chemistry should plan for graduate training.

The thoroughly trained teacher of chemistry has an exceptional opportunity to play an important role in the social, economic, and industrial development of the nation. His opportunities to aid in the dissemination of useful knowledge, in the development of a wider appreciation of scientific knowledge, and to contribute to scientific progress both by his teaching and his opportunities for personal research, are such as to make this profession unusually attractive to those who have a sincere desire to serve their fellowmen.

The curriculum of the Course in Chemistry is designed to offer a broad foundation in the chemical and related sciences. It does not profess to train chemists for special industries, for each industry has its special problems and special methods. Interwoven with the courses in chemistry are courses designed to broaden the understanding and to round out educational training. A number of electives are provided, and it is required that a certain number of these be studies other than chemistry. Students are expected to take a sufficient number of cultural studies to acquire the proper educational balance.

Requirements for Admission

See page 119.

Plan of Course of Study

Four courses of study are offered: A general course, a course for industrial chemists, a course for food or sanitary chemists, and a course for agricultural chemist. The first

course will naturally be chosen by those who desire a broad, general training, while those who intend to go into industrial work will do well to choose the course for industrial chemists. The courses for food or sanitary chemist and for agricultural chemist are more specialized and will be elected by those who desire to train themselves for these particular lines of work. Attention is called to the fact that specialized training along the lines of soil chemistry and physiological chemistry may be obtained by election of courses in these subjects along with the required studies of the general course.

It will be observed that differentiation between the various lines begins in the second year. In all the courses a year each of general inorganic, analytical, organic, and physical chemistry is required. The course in English is the regular course required of all freshmen in the University. The equivalent of at least courses 2a and 2b in German and courses 1a and 1b in French is required for graduation from the course in chemistry. These languages must be pursued in not less than one-year courses. A student entering with preparation in but one of these languages will naturally continue work in it during the freshman year. Preparatory work in these languages may satisfy the graduation requirement in part.

In each of the courses, 130 credits and an equal number of grade points are required for graduation. Students will frequently find it desirable to absolve a part of the requirements during one or more summer sessions. The work of the senior year includes the writing of a thesis, embodying the result of a detailed experimental investigation.

Each year at least one opportunity for an extended industrial trip will be offered. The Middle West has become an important center of chemical industries and nearly all of the more important chemical industries may be seen in operation here. It is expected that the students taking the Course in Chemistry will avail themselves fully of these opportunities to visit representative industrial plants. At least one such trip must be taken during the course. While it is not specifically required for graduation, students are urged to devote at least one of their summer vacation periods to practical chemical work in some chemical industry.

Requirements for Graduation

Students who have completed successfully any of the four courses of study as outlined below 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

First Semester	Credits	Second Semester	Credits
Chemistry 1a	5	Chemistry 1b	5
Mathematics 7a	3	Mathematics 2	4
German or French	4	German or French	4
English 1a	3	English 1b	3
Mechanical Drawing	1	Mechanical Drawing	1
Total	16	Total	17

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

GENERAL COURSE

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	5	Chemistry 11	5
German or French	4	German or French	4
Physics 31	5	Physics 31	5
Chemistry 10 (or Mathematics 3** or 5)	3	Bacteriology,* or Mineralogy (or Mathematics 5)	3
Total	17	Total	17

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

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*If Mineralogy or Mathematics 5 is elected in the sophomore year Bacteriology must be taken later in the course.

**Students electing Mathematics 3 will follow this course with Mathematics 5 in the following semester.

Junior Year

First Semester	Credits	Second Semester	Credits
Chemistry 120	5	Chemistry 120	5
Chemistry 130	5	Chemistry 130	5
German or French	4	German or French	4
Electives	3	Electives	3
Total	17	Total	17

Senior Year

Thesis	2	Thesis	2
Chemistry 119	3	Chemical Engineering 120	2
Chemistry 107	2	Electives	11
Chemical Engineering 15	3		
Electives	5		
Total	15	Total	15

NOTE: Of the 22 electives provided, at *least* 10 must be taken in subjects other than Chemistry.

COURSE FOR INDUSTRIAL CHEMIST

Sophomore Year

Same as for sophomore year of General Course, *except* that Bacteriology, Mineralogy, or Metallurgy, (*or* Mathematics 5) may be elected. (3 credits.)

Junior Year

Same as for junior year of General Course.

Senior Year

Thesis	2	Thesis	2
Chemical Engineering 15	3	Chemical Engineering 111	2
Chemical Engineering 114	4	Chemical Engineering 120	2
Economics 11	2	Electives	9
Electives	4		
Total	15	Total	15

COURSE FOR FOOD CHEMIST OR SANITARY CHEMIST

Sophomore Year

First Semester	Credits	Second Semester	Credits
Chemistry 11	3	Chemistry 11	3
German or French	4	German or French	4
Physics 31	5	Physics 31	5
Bacteriology 1	5	Botany 1	5
Total	17	Total	17
Military Science		Military Science	
Physical Education		Physical Education	
See p. 503.		See p. 503.	

Junior Year

German or French	4	German or French	4
Chemistry 120	5	Chemistry 120	5
Botany 110	3	Botany 111	3
Chemistry 119	3	Chemistry 146	5
Electives	2		
Total	17	Total	17

Senior Year

Chemistry 130	5	Chemistry 130	5
Chemistry 107	2	Electives	7
Electives	6	Thesis	2
Thesis	2	Chemistry 113	1
Total	15	Total	15

Of the 15 elective credits, at least 8 must be taken in subjects other than Chemistry.

COURSE FOR AGRICULTURAL CHEMIST

Sophomore Year

Chemistry 11	3	Chemistry 11	3
German or French	4	German or French	4
Botany 1	5	Agricultural Chemistry 1	3
Physics 31	5	Agricultural Chemistry 2	2
		Physics 31	5
Total	17	Total	17
Military Science		Military Science	
Physical Education		Physical Education	
See p. 503.		See p. 503.	

Junior Year

First Semester		Second Semester	
Chemistry 120	5	Chemistry 120	5
German or French	4	German or French	4
Agricultural Chemistry 121	5	Agricultural Bacteriology 1	3
Electives	3	Electives	5
Total	17	Total	17

Senior Year

Chemistry 130	5	Chemistry 130	5
Agricultural Chemistry 122	5	Physiology 3 or Botany 146	4
Electives	3	Electives	4
Thesis	2	Thesis	2
Total	15	Total	15

Of the 15 elective credits, at least 8 must be taken in subjects other than Chemistry.

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 Engineering, College of Agriculture, and the 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. 88ff.

THE CHEMISTRY-COMMERCE COURSE

A new four year course known as the CHEMISTRY-COMMERCE COURSE has recently been added to the University curriculum.

The need for such a course arises from the fact that men of affairs in the industrial world are often handicapped because they do not possess a fundamental knowledge of the technical principles involved in their business. Each year it becomes more and more important for the business man to have a knowledge of the chemistry of the processes with which he is concerned. This course is intended particularly for students who desire to fit themselves to hold commercial positions such as business managers, technical secretaries, managerial secretaries, sales managers, purchasing agents, technical salemen, and in fact any commercial position in which a thorough understanding of fundamental chemical principles would be an asset.

In addition to certain required courses in chemistry, economics, mathematics, foreign languages, and English, a considerable number of free electives has been provided so that the student may broaden his education in the direction he sees fit.

Prospective students may be interested to know that this University is the only one which offers a four year course of this character. The development of this course has been made possible because of the earlier strong development of four year courses in commerce and in chemistry.

Students desiring further information concerning this course should write or consult Professor J. H. Mathews, Director of the Course.

COURSE OF STUDY

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Mathematics 7a	3	Mathematics 7b	3
Foreign Language	4	Foreign Language	4
Chemistry 1a	5	Chemistry 1b	5
Total	15	Total	15
Military Science		Military Science	
Physical Education		Physical Education	

See p. 503.

See p. 503.

Sophomore Year

Organic Chemistry	5	Quantitative Analysis	5
Economics 1a	4	Economics 1b	4
Foreign Language	4	Foreign Language	4
English 4	2	Economics 8b	2
Economics 8b,	2	Elective (See Note 6)	2
Total	17	Total	17
Military Science		Military Science	
Physical Education		Physical Education	
See p. 503.		See p. 503.	

Junior Year

Physics 1 or 31	5	Physics 1 or 31	5
Commercial Chemistry	3	Commercial Chemistry	3
Economics 5	3	Economics 130	3
Economics (See Notes 1 and 2)	4	Economics (See Notes 1 and 2)	4
Elective (See Note 3)	2	Elective (See Note 3)	2
Total	17	Total	17

Senior Year

Chemistry (See Note 4)	2 or 3	Chemistry (See Note 4)	2 or 3
Economics (See Note 5)	3	Economics (See Note 5)	6 or 7
Economics 109	3		
Elective (See Note 6)	8 or 9	Elective (See Note 6)	7 or 8
Total	17	Total	17

132 credits required for graduation of which not more than 12 may be in the starred courses in commerce.

[1]These 8 credits must include Economics 11 and 13 and two selected from Economics 12, 14, and 15.

[2]The equivalent of at least Courses 2a and 2b in German and either 1a and 1b in French or 1a and 1b in Spanish is required for graduation in this course. These languages must be pursued in not less than one-year courses.

[3]Only for students who have completed their foreign language requirements.

[4]Students with 50% more grade points than credits will write a thesis in Chemical Industry. Others will take a course in chemistry prescribed by the Chemistry Department.

[5]For these credits students will select 3 courses from the following list: Economics 135, 137, 171, 181, and in the second semester 109.

[6]These electives are subject to the limitations of the maximum permissible in any department.

KEY TO ECONOMICS COURSES

Econ. 1a and 1b .....Elements of Economics
Economics 5 .....Money and Banking
Econ. 8a and 8b .....Elements of Accounting
Economics 11 .....Business Management
Economics 12 .....Credits and Collections
Economics 13 .....Marketing Methods
Economics 14 .....Sales Administration
Economics 15 .....Retail Advertising
Economics 109 .....Commercial Law
Economics 130 .....Statistical Method
Economics 135 .....Railway Transportation
Economics 137 .....Corporation Finance
Economics 171 .....Personal Management
Economics 181 .....Theory and Practice of Accounting

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 p. 119.)

Transfers

Transfers from other institutions and from other courses in the University must meet all the requirements of this course. Substantial equivalents will be accepted for required courses. but no requirement will be waived. Courses in business subjects such as accounting, business administration, advertising, business law, etc., pursued in other institutions in the freshman year will not be accepted as equivalents of the courses offered here in these subjects. Only in exceptional cases will courses in these subjects pursued in other institutions in the sophomore year be accepted as equivalents of courses offered here in these subjects in the junior and senior years. The required courses of the freshman and sophomore years for which credits or equivalents are not allowed must take precedence over all other courses in the programs of all transferred students.

Special Students

Programs which do not comply with the regulations hereinafter described will be allowed only in the cases of students who are not candidates for a degree and who have had here or elswhere a two years' college course or its equivalent and who have had the prerequisites of the particular courses they wish to pursue. Until such students have demonstrated their ability to maintain a grade of at least C in the courses to which they are admitted, their status will be that of students on probation.

General Requirements

A total of 132 credits, exclusive of those required in physical education and military science, is required for graduation in this course. Among these must be included credits in foreign language sufficient to aggregate, together with those acquired in high school, not less than thirty-two, of which not less than eight may be offered in any one language, and not less than thirty credits in the field of economics. 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 B in all studies of the preceding semester, he may take a program which will aggregate not to exceed 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

language, history, economics, and accounting. In natural science, physical geography and 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 courses in English are the general training course required of all freshmen in the University and a course in commercial correspondence. In the foreign language courses special attention is devoted to the acquisition of a speaking and writing command of the language for commercial purposes. The preliminary courses in economics and history are the economic and social history of England and the elements of economics. Elementary accounting is required in this group in preparation for the advanced courses in accounting which follow.

These courses are included in the curriculum of the freshman and sophomore years and are required prerequisites for the work of the junior and senior years.

Professional Studies

These include a group of courses designed to teach students to understand and actually to perform various processes common to all branches of business, and a number of other groups designed to promote specialization in particular fields. In the first group are included courses in accounting, auditing, salesmanship, advertising, credits and collections, and marketing methods. The special groups are arranged, so far as possible, to meet the needs of individual students. Some of them are described below.

Elective Studies

A considerable part of the student's time in the junior and senior years is available for free election from the courses offered in the various colleges and departments of the University. The opportunity 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.

Arrangements of Studies

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Geography 5	3	Geography 5	3
History 6	3	History 6	3
Mathematics 7a	3	Mathematics 7b	3
Foreign Language	4	Foreign Language	4
Total	16	Total	16

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

Sophomore Year

Economics 1a	4	Economics 1b	4
Economics 8a	2	Economics 8b	2
Science	5	Science	5
Foreign Language	4	Foreign Language	4
Elective	2	English 4	2
Total	17	Total	17

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

Junior Year

(a) In the junior year all students must take: Economics 5, 11 or 13, 130, 135, and 181, as well as foreign language, if they have not previously completed the amount required; (b) they must also elect one of the groups described below or arrange a psecial group approved by the adviser; and (c) they must elect from this group or from other courses or from both combined a sufficent number of courses to aggregate 34 credits for the year. In the case of *lower group students** these electives must include a year's work in English, mathematics, science, history, or foreign language in advance of the courses already pursued in the preceding years and may not include more than two of the courses specified in the group elected.

Senior Year

All students in the senior year must take one semester of commercial law (Economics 109), the course in business administration (Economics 11 or 13) which was not taken in the junior year, and a sufficent number of other courses to complete their language and group requirements and the 132 credits required for graduation. Among these must be included a thesis in the case of students whose grade points at the end of the junior year exceeded their credits by at least 50 per cent. Other students may be selected to write theses by vote of the commerce faculty. The elections of lower group students from the groups selected in the junior year are limited to two courses, both of which may be taken in either the junior or the senior years or one may be taken in each of these years.

* Lower group students are those whose grade points at the end of the Sophomore year are less than 50 per cent greater than the number of other credtis.

Elective Groups

Accounting

Cost Accounting, 2; Advanced Accounting Problems, 2; Auditing, 2; Accounting Systems, 2; Government Accounting, 2.

This group may be elected only by students who have attained a rank of "good" in the course in The Theory and Practice of Accounting (181).

Lower group students must elect two of these courses.

Advertising and Marketing

Sales Administration, 2; Retail Advertising, 2; Advertising Campaigns, 2; Credits and Collections, 2; Psychology of Advertising, 2; Marketing Farm Products, 3.

Upper group students must select four of the above courses, and lower group students, two.

Banking and Finance

Corporation Finance, 3; Investments, 2; Railroad Finance, 3; Financial History of the United States, 3; Money Markets, 3.

Upper group students must select three of the above courses and lower group, two.

Business Management

Credits and Collections, 2; Business Ethics, 2; Employe and Foreman Training, 2; Corporation Finance, 3; Labor Prolems, 3; Labor Market, 3; Employment Management, 3; Social Psychology, 3.

Credits and Collections and either Business Ethics or Employe and Foreman Training are required of all who elect this group. In addition, upper group students must select two of the other courses listed.

Commercial Teachers

Education (the courses required for the teacher's certificate), 15; at least two courses from one of the other groups.

Foreign Trade

Overseas Commerce, 3 or 6; Geography of Europe, 3, or Geography of South America, 3; Marketing of Farm Products, 3, or Money Markets, 3.

Lower group students must elect at least one semester of Overseas Commerce, 3, and one of the other courses.

Industrial Relations

Labor Problems, 3; Labor Legislation, 3; Labor History, 3; Foreign Labor Movements, 3; Personal Management, 3; Labor Market, 3.

Upper group students must elect three of the above courses, and lower group, 2.

Insurance

Theory of Life Insurance (Math. 24), 2; Property Insurance, 2; Life Insurance, 2; Insurance Seminar, 2.

Lower group students must elect two of the above courses.

Transportation and Public Utilities

Railway Problems, 3; Railway Finance, 3; Corporation Finance, 3; Public Utilities, 2.

Upper group students must elect three of the above courses, and lower group, two.

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.

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 HUMANITIES

Eugene H. Byrne (chairman), Associate Professor of History, Professors Kiekhofer, Pearse, Sharp, Showerman; Associate Professor Dodge.

Purpose and Plan of the Course

It has long been felt by a large number of professors in the College of Letters and Science that the citizens of the State would welcome the establishment of a course based upon the curriculum of the old College of Liberal Arts, with modifications which the trend of education in the last two generations has shown to be advisable. Such a course, leading to the degree of Bachelor of Arts (Course in Humanities), has been instituted for the benefit of students who may desire to devote a considerable part of their college work to non-professional, purely cultural development, either for its own sake, or as a general preparation for special study.

Students may here secure substantial introductions to the four great fields of learning: language and literature; history and its correlated branches; science; philosphy and mathematics. They will come in vital contact with one, at least, of the great civilizations of the ancient world. They will acquire the power to acquaint themselves with at least one of the great foreign civilizations of the modern world. They will have training in English composition and spend at least a year with the masters of English literature. They will be given the opportunity in courses in history, economics and political sciences to gain knowledge regarding the institutions of the past and of the present, and to study methods of analyzing social facts. An introduction to one of the sciences will open to them the world of natural phenomena, and bring to them some experience in scientific method. Courses in philosophy and mathematics will serve to induce in them habits of close reasoning.

It is believed that students who seek what is called a "general education" will see the desirability of the initiation into these four fields which is required in the new course. It is believed, also, that students who feel the need of passing quickly to a special subject with the intention of concentrating their attention upon it will consider that the delay entailed by the satisfaction of the requirements in the new course will be justified by the enlarged vision with which it will insure their entering upon their specialized work.

Election in this course is open to students already in the University as well as to incoming students. Information may be secured from any member of the committee in charge.

Requirements

1. The general requirements of the Course in Humanities are those of the general course leading to the degree of Bachelor of Arts. One hundred twenty academic credits and eight credits in physical education (for women) or in physical education and military science (for men) are required for graduation. In other respects the regulations governing the election of studies, major, and thesis, in the general course apply in the Course of Humanities, subject to the modifications involved in the following special requirements:

2. **Five Groups.** The student shall satisfy the requirements in each of the following five groups:

a. English Composition and Literature.....12 credits

b. Foreign Language and Literature.
Three of the following to be absolved by combining high school units and college credits:

1. Latin 24
2. Greek 14
3. French.....a reading knowledge
4. German.....a reading knowledge

(Possession of a reading knowledge of French and German will be determined by special examinations conducted by the committee.)

c. Economics, History, Political Science.....10 credits (of which six credits must be in history).

d. Natural Science .....10 credits

e. Mathematics, Philosophy .....12 credits
Satisfied by mathematics alone, by philosophy alone, or by a combination of credits in the two subjects. The credits in philosophy are to be from the introduction to or history of philosophy, ethics, logic, one semester of phychology.

3. Major and Thesis. The major must be chosen from the following fields:

a. Language, Literature.
b. Science.
c. Economics, History, Political Science.
d. Mathematics, Philosophy.

4. Electives. No electives may be taken in professional courses, except such as are required for the teachers certificate.

(Students in doubt as to whether a particular course is "professional" or not will consult the committee.)

5. Freshmen in the Humanities Course are expected to elect History 1 for four credits throughout the year, eight credits in all, and sophomores to elect English 30 for the year.

Degree

The degree granted on the completion of the course is Bachelor of Arts (Course in Humanities).

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 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 articles, editorial writing, critical writing, women's departments in newspapers and magazines, the country newspaper, newspaper administration, the history and principles of journalism and advertising. Courses are offered in 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 Industrial Education and Applied 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.

Special lectures on various phases of journalistic work are given by newspaper men in active service.

Additional information is given in the bulletin "Courses in Journalism, 1924-25," which may be had on application to the Director.

Advertising

Students may obtain special training in preparation for advertising positions by combining courses in journalism with those in advertising. The normal arrangement of these courses is indicated in the Advertising Group on p. 300.

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. Subject to the provisions governing the election of studies in other colleges (see page 144), students in the Course in Journalism may elect courses in the College of Engineering, the Law School, and in the College of Agriculture. 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 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, copy desk, 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.

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 newspaper administration.

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 two 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; the *Octopus*, a humorous periodical, and the *Badger*, the university annual, edited and published by the members of the junior class, all give opportunity for a variety of experience in journalism. The *Wisconsin Engineer*, a monthly 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 monthly issued by the University Commerce Club, furnish practice for those interested in technical and trade journalism.

General Requirements

Students will be admitted to the Course in Journalism on compliance with the conditions imposed for entrance to the College of Letters and Science. (See p. 119.)

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. 147.) The 120 credits must include, in addition to a thesis, not less than 24 credits in the Department of Journalism.

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 language, 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, government and politics in the United States; and psychology and philosophy; (3) those that give the necessary

technical instruction and practice in journalism, including those in advertising and the law of the press. The required courses in journalism are Newspaper Reporting (Journalism 2), 6 credits; Editing (Journalism 3), 6 credits; History and Principles of Journalism (Journalism 110 and 111), 6 credits, and either Editorial and Critical Writing (Journalism 104 and 106), 4 credits, or The Writing of Special Articles (Journalism 105), 4 credits.

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.

Freshman Year

First Semester	Credits	Second Semester	Credits
Journalism 1	1	Journalism 1	1
Freshman English (1a)	3	Freshman English (1b)	3
Foreign Language	3-4	Foreign Language	3-4
History (English, Medieval)	3-5	History (English, Medieval)	3-5
Mathematics, or	4	Mathematics, or	4
Science	5	Science	5
Total	15-16	Total	15-16

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

Sophomore Year

First Semester	Credits	Second Semester	Credits
Newspaper Reporting (2)	3	Newspaper Reporting (2)	3
English 30	3	English 30	3
Foreign Language	2-4	Foreign Language	2-4
American History (4)	3	American History (4)	3
Elementary Economics (1a)	4	Elementary Economics (1b)	4
Total	16-17	Total	16-17

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

GENERAL NEWSPAPER GROUP

Junior Year

First Semester	Credits	Second Semester	Credits
Copy Reading (3)	3	Copy Reading (3)	3
Special Articles (105)	2	Special Articles (105)	2
American Government and Politics (7)	4	Elementary Law (2)	3
Elementary Psychology (1)	3	Introduction to Philosophy (21)	3
Retail Advertising (15)	2	Electives	5
Electives	2		
Total	16	Total	16

Electives in Journalism—The Community Newspaper (7), I, 2; Newspaper Administration (8), II, 2; French Journalism (18), 2; Women's Departments (9),2.

Other Electives—Social Psychology (139), I, 3; General Sociology (140), II,3; Labor Problems (122) I,3; Rural Life (25) II, 3; American Labor History (145) 3; Money and Banking (5), I or II,3; Nineteenth Century Europe (139), 3; Representative Americans (112), I,3; American Foreign Policy (120), I,3; Introduction to World Politics (125) I,3; Problems of Municipal Government (125), I,3; City Planning (101), I,1; American Literature (40), 2; Prose Style (138), 2; Familiar Essay (143), 2; Romantic Movement (34) I,3; Victorian Era (35) I, 3; Logic (11), I or II, 3; Ethics (41), II,3.

Senior Year

First Semester	Credits	Second Semester	Credits
Editorial Writing (104)	3	Law of the Press (25)	2
History of Journalism (110)	3	Principles of Journalism (110)	3
Recent American History (124)	2	Recent American History (124)	2
Thesis	2	Thesis	2
Electives	7	Electives	7
Total	16	Total	16

Electives in Journalism and Advertising—Advanced Reporting (112), II,2; Critical Writing (106), II,2; Retail Advertising (15), I,2; National Advertising Campaigns (16), II,2; Agricultural Journalism (1), I,2; Farm Papers (4), II,1; Methods and Problems of Agricultural Journalism (140), II,2.

Other Electives—Modern Britain (147), 3; Contemporary Drama (67), 2; Contemporary Novel (68), 2; English Words (25), I,3; Narration (107), 2; Capitalism and Socialism (144), II,3; Railway Problems (135-136), 3; Public Utilities (142), 2; Criminology and Penology

(161), II,3; Social Problems (4), II,3; Business and Political Ethics (42,43), 2; The Relation of Man to Nature (25), II,3; Governments and Politics of Continental Europe (128), II,3; Principles of Legislation (126), I,2; Principles of International Law (118), 4; Fine Arts (122), 3; Freehand Drawing and Perspective (50), I,3; Commercial Art (63), 3.

COMMUNITY JOURNALISM GROUP

Junior Year

First Semester	Credits	Second Semester	Credits
Copy Reading (3)	3	Copy Reading (3)	3
Special Articles (105)	2	Newspaper Administration (8)	2
Community Newspaper (7)	2	Rural Life (25)	3
City Planning (101)	2	Elementary Law (2)	3
Social Psychology (139)	3	Electives	5
American Gov. and Politics (7)	4		
Total	16	Total	16

Electives—Special Feature Article (Journ.105), II,2; General Sociology (Econ.140), II,3; Social Problems (Econ.4), II,3; Money and Banking (Econ.5), I or II,3; Current Politics (Pol.Sc.32), I or II,2; American Foreign Policy (Pol.Sc.120), I,3; General Farm Crops (Agron.1), I,3; Elementary Live Stock Judging (An.Husb.1), II,3; Psychological Principles of Advertising (Phil.19), II,2.

Senior Year

First Semester	Credits	Second Semester	Credits
Editorial Writing (104)	3	Law of the Press	2
History of Journalism (110)	3	Principles of Journalism (111)	3
Retail Advertising (15)	2	Prac. Probs. of Mun. Gov. (115)	2
Thesis	2	Thesis	2
Electives	6	Electives	5
Total	16	Total	16

Electives—Advanced Reporting (Journ. 112), II,2; Recent American History (Hist.124), Yr.,2; Meth. and Probs. of Ag. Jour. (140) 2-4; Farm Advertising (Ag.Jour.3), I,2; Public Finance (Econ.3), I or II, 3; Local Rural Government in the U.S. (Pol.Sc.134), II,2; Farmer Movements (Econ.152), I,2; Rural Improvement (Hort.126), I,2; Contemporary Drama (Comp. Lit.67), 2; Contemporary Novel (Comp. Lit. 68), 2; Principles of Legislation (Pol.Sc.126), I,2.

ADVERTISING GROUP

(Sophomores are required to take Commercial Correspondence (4) in the second semester)

Junior Year

First Semester	Credits	Second Semester	Credits
Copy Reading (3)	3	Copy Reading (3)	3
Special Articles (105)	2	Special Articles (105)	2
Retail Advertising (15)	2	Advertising Campaigns (16)	2
Marketing Methods (13)	2	Introduction to Philosophy (21)	3
Elementary Psychology (1)	3	Electives	7
Electives	5		
Total	17	Total	17

Senior Year

First Semester	Credits	Second Semester	Credits
Editorial Writing (104)	3	Law of the Press (25)	2
History of Journalism (110)	3	Principles of Journalism (111)	3
Recent American History (124)	3	Recent American History (124)	3
Thesis Course, Marketing and Advertising Problems	2	Thesis Course, Marketing and Advertising Problems	2
Electives	6	Electives	7
Total	17	Total	17

COURSE IN PHARMACY

EDWARD KREMERS, DIRECTOR, PROFESSOT 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 phar-

macy, 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. This course was created 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 in 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 laboratories for general pharmaceutical chemistry and pharmacy; 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 culminate 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 pages 119 ff.

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 degree of Master of Science and Doctor of Philosophy are conferred as higher degrees upon candidates who have a baccalaureate degree.

Fees and Expenses

See pp. 88ff.

Outline of Two-Year Course

First Year

First Semester	Credits	Second Semester	Credits
Botany 1	5	Botany 130	4
Pharmacognosy 10	1	Chemistry 1b	5
Chemistry 1a	5	Chemistry 15	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.

Three-Year Course

In harmony with a resolution adopted by the American Conference of Pharmaceutical Facilities, of which this school is a member, beginning with the college year 1925-26 the two-year pharmacy course will be discontinued and a three-year course will take its place.

Four-Year Course

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, and 121 in Pharmacy, and course 20 in Pharmacognosy.

Basal sciences: Chemistry 1, 15, and 20; Botany 1 and 130; 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 advanced courses in pharmacy and pharmacognosy may be taken during the fourth year.

The language requirements of this course are: One year of English and a reading knowledge of two modern foreign languages. If taken at the University, English 1a and 1b, French 1a and 1b and German 1a and 1b, 2a and 2b, are usually required.

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 p. 143.

Additional electives sufficient to make 120 unit-hours may be chosen upon consultation with the adviser for pharmacy students. One hundred twenty 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 twofold:

(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. A garden of about forty acres for the scientific cultivation of medicinal plants and a laboratory for the investigation 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.

Fellowships

The following fellowships are available in Pharmacy: Fritzsche Brothers, Hollister, Marschall, and Wrigley Fellowships.

An American Pharmaceutical Association has also been granted for work in this department. For detailed information in regard to these, see pp. 465ff.

LIBRARY SCHOOL

C. B. Lester, Director; Mary Emogene Hazeltine, Preceptor Mrs. Davis, Miss Reely, Miss Akers, Miss Fair.

The Library School is a professional school offering a one-year course of training in library work to both men and women. This training may be taken in two ways: as an independent course by all who meet the entrance requirements, or as a joint course by students in the College of Letters and Science who qualify for entrance.

Location

The School is located on the second floor of the Madison Free Library, 206 North Carroll Street, near the business center of the city. These quarters, especially designed for the School, with complete equipment provided by the Free Library Commission, which administers the School jointly with the University, provide every facility for professional work. The School avails itself of all the library facilities of Madison.

Requirements for Admission

1. Applicants holding a degree from an approved college are accepted on the record of their work, but must meet the other requirements for admission, named below. The applications of college graduates should, if possible, be filed not later than the second Friday in June of every year, and as much earlier as their plans permit, to assure time to arrange for the prerequisites.

2. Students electing the *joint course* with the College of Letters and Science are admitted at the end of their junior year without written examination if their university record is satisfactory, and if they meet the prerequisite requirements below. The joint course is more fully discussed below.

3. All applicants not holding a degree from an approved college are required to take the entrance examinations, which are held on the second Friday in June of every year.

Further requirements for admission are as follows:

1. Each candidate must fill an application blank, a copy of which may be obtained by addressing the Preceptor, Miss

Mary Emogene Hazeltine, Wisconsin Library School, Madison, Wis. This blank should be returned promptly to the School.

2. Applicants must be at least twenty years of age, while persons over thirty-five who have no professional experience are advised against undertaking the course.

3. Students will be admitted only at the beginning of the first semester.

4. A personal interview with prospective candidates is desirable whenever possible. Besides the background of education, so much depends upon the spirit in which library work is undertaken and the personal fitness for it, that much attention is given to the selection of students. Candidates are tested not only by college records or entrance examinations, but also by correspondence, by the testimony of their references, and by a personal interview.

The class entering in September of every year is made up not later than the first of July and includes the college graduates whose applications have already been accepted and the candidates who passed the entrance examinations.

As the quarters of the School are limited, the number of students admitted for any one year can not exceed its desk room. If there are more candidates than can be accommodated, entrance is made competitive and those that pass the examinations with the highest percentage are first accepted, together with college graduates. The others are placed on a waiting list, from which if any accepted students withdraw during the summer, the vacancy thus created is filled.

Prerequisites for all Applicants

Accepted candidates must meet several special entrance requirements *before the School opens in September*. All who have not had experience in library work must spend at least one month in actual work in a designated library before joining the classes. The library and the conditions under which the work is to be performed must be satisfactory to the Preceptor, and if desired, arrangements for it will be made by her.

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. Detailed information concerning this requirement is sent with

the application blank. 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.

Suggested Preliminary Preparation

General business knowledge is of great value to the prospective librarian and is a prerequisite to success in administrative library positions. Candidates who have not had business experience are urged to become familiar with business methods, including the handling of a bank account, the management of a personal budget, a knowledge of the elementary principles of bookkeeping, and a general understanding of ordinary business transactions.

Undergraduates in college who are planning to enter Library School on the completion of their college work are advised to select courses from the following groups:

English literature, especially survey courses in English and American literature, and courses dealing with such literary types as the novel, the drama, and the short story, not only in English but in foreign languages. Work in composition or rhetoric should be included, also courses in literary appreciation and criticism.

Modern languages, French, German, or Spanish. It is advisable to begin the language preparation in high school and to continue the study for at least two years in college.

Classical training is always a valuable asset.

Mediaeval and modern European history, history of England and of the United States, including recent periods.

Economics, political science, and sociology.

Psychology, philosophy, and pedagogy.

Science, one or more of the following: botany, geology, zoology, physics, chemistry.

Public speaking.

Applicants taking the entrance examinations should understand that the examinations are designed to test their education, reading, and general information. Sight translation from one foreign language is also included, the candidate having the choice of French, German, or Spanish.

Course of Study

The course of instruction extends throughout the university year, September to June. The work covers the following subjects, which are required of all:

First Semester	Credits	Second Semester	Credits
Cataloguing	5	Reference	2
Classification	3	Library Economy	2
Reference	2	Subject Bibliography	3
Evaluation and Selection of Books	2	Evaluation and Selection of Books	2
Trade Bibliography and Book-buying and Ordering	1	Children's Literature	1
Loan Administration	1	Administration	1
Library Economy	1	Documents	1
		Field Practice	3
Total	15	Total	15

The field practice is one of the distinctive feature of the School. During February and March of every year the academic schedule is suspended and the students assigned for actual work in the libraries of the state, under the supervision of the local librarians and the members of the faculty of the School.

This actual work seeks to cover all phases of library routine, the larger service of the public through extension methods, library publicity, book selection, cooperation of libraries with schools, story telling, etc.

Tuition

See p. 88ff.

Students needing financial assistance may avail themselves of the loan fund provided by the Alumni of the School.

Joint Course with the College of Letters and Science

A joint course has been arranged between the Library School and the College of Letters and Science for those who are not able to afford the time for four years of college work followed by a year of technical training. This arrangement enables a student of ability and energy, in four years, with

the work ordinarily permitted (16 credits a semester) or by the summer session of the University, to receive the degree of bachelor of arts and at the same time complete the work required by the Library School for its certificate. Normally this is accomplished by securing 96 credits in the College of Letters and Science by the end of the junior year. The Library School requires thirty credits for its certificate. Twenty of these will be accepted by the University towards a bachelor's degree (under the 20 credit rule), four counting towards an English major, if the student is majoring in that subject.

Joint course students devote the entire time of the senior year to the work of the Library School except for the thesis for which four credits are given. The thesis will be under the direction of the university department in which the student chooses his major subject, and the bibliography in it will be accepted by the Library School in satisfaction of one of its requirements. If students elect the work of the Library School before they have secured 96 credits, the work of the School will be accepted for 10 college credits if completed before the beginning of the junior year, and for 20 college credits if completed after the beginning of the junior year.

Students in other institutions wishing to enter the joint course on advanced standing (see p. 133) must bear in mind that this college normally requires one and one half years of residence, and attendance at the Library School may not be counted toward fulfilling this requirement. Arrangements for entering on advanced standing should be made through the Chairman of the Committee on Advanced Standing, University of Wisconsin, and the Preceptor of the Library School.

Legislative Reference 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. 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.

The intsruction in legislative reference work includes bibliographic and technical library studies 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.

Course for Teacher-Librarians

In cooperation with the School of Education the Library School offers a special course for teachers. For detailed statement of this course, see p. 323.

Special Catalogue

For a complete catalogue of the Library School, giving full description of the course of study, address the Preceptor, Miss Mary Emogene Hazeltine, Library School, 206 N. Carroll Street, 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 department 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, industrial and applied 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 industrial education 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, Bascom 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 pp. 133ff. 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 registration 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 industrial education or applied arts receive the degrees of Bachelor of Science (Industrial Education), or Bachelor of Science (Applied Arts), and those who complete the four-year course in physical education receive the degree of Bachelor of Science (Physical 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 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 Industrial Education and Applied Arts and the Director of the School of Education.

Further details concerning these scholarships may be obtained from the Chairman of the Department of Industrial Education and Applied Arts.

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.

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 Schools and specified elementary schools are open to students in the School of Education for the observational study of teaching.

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.

Bureau of Educational Research

A Bureau of Educational Research has been established in the School of Education for the purpose of co-ordinating and facilitating research in education with particular reference to the public schools of the state. The facilities of the bureau are available for use by graduate students majoring in education and by superintendents, principals, and teachers throughout the state. Bulletins and studies, reporting the results of investigations, will be issued from time to time.

The work of the bureau is in charge of a committee consisting of members of the faculty of the Department of 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 science.

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. 319ff, for 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, industrial education and applied 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:

Introductory Psychology ..... 3 credits
Educational Psychology (Education 41 or ....
Mental Development (Education 11) ..... 3 credits
Principles of Education (Education 31) ..... 3 credits

Technique of Instruction (Education 90)	2 credits
Departmental Teachers Course	2 credits
Education Practice (Education A)	2 credits
	15 credits

(a) Introductory Psychology shall be taken ordinarily in the sophomore year.

(b) 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 demental teachers courses in the minor subjects are at the option of the department.

(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 certificates upon fulfillment of the special professional requirements indicated below: Agriculture, page 327; Home Economics, page 329, Music, page 324.

State Teachers License

Upon 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 39.75—1 of the laws of Wisconsin. 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 the 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 differ somewhat from the minimum fixed by the State Board of Examiners for a license to teach. For a first license the following credits in education are *required*:

1. Educational Psychology ..... 3 credits
2. Principles of Education (or Philosophy of Education) ..... 3 credits
3. Teachers' Course in Major Subject ..... 3 credits

Fifteen (15) hours in education are required for a life certificate to teach. For the remaining (7) credits the Board of Examiners recommends selection from the following list; part must be made up for a renewal license, and the remainder for a life certificate:

4. Educational Practice or Practice Teaching ..... 2 credits
5. Teachers' Course in Minor Subject ..... 2 credits
6. History of Education ..... 3 credits
7. Technique of Instruction ..... 2 credits

More specific information 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.

Attention is called to the fact that the minimum requirement of the North Central Association is eleven hours in education exclusive of general psychology. After September 1, 1924, the requirement of the North Central Association will be fifteen hours in 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 consulted for more extended and detailed information regarding the courses of instruction open to students who intend to teach.

Agriculture

See pp. 327ff.

Botany

Students preparing to teach botany, either as a major or a 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, 107, 108, 110, 111, 112, 129, 130, 146, 147, 150.

Minor. A minimum of ten credits in addition to course 90, selected from the following course: Botany 1, 2, 103, 104, 107, 108, 110, 111, 112, 129, 130, 146. Attention is called to courses 1 and 2, which together constitutes 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 thirty credits, including courses 1, 11 (at least five credits), 120 (at least six credits, including

lectures throughout the year), and 130 (at least six credits, including lectures throughout the year).

Minor. A minimum of twelve credits.

Departmental Teachers Course. Chemistry 90. The Teaching of Chemistry. II; 2 cr. Prerequisite: course 11a, 5 cr.; 120 (first semester). Course 11 may be taken concurrently. 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.

Drawing

See Industrial Education and Applied Arts.

Economics

Major. A minimum of thirty selected credits including the 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. 192 ff. For detailed information relative to the special requirements of courses in education for the University Teachers Certificate see p. 315ff.

English

All students desiring the departmental recommendation to teach English must pass an examination in grammar, or secure a good standing in English 123.

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

or 33, 90, 91, 120 or 123, and one course from each of the following groups: 36 or 137; 34, 35, or 40. 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 120 or 123.

Minor. A mimimum of fourteen credits in advance of freshman English, including courses 30 or 33, 90 and an advanced composition course in the sophomore or junior year (2, 5, or 6), and one of the following groups: (a) 34 and 35; (b) 36 or 137; (c) 40.

Departmental Teachers Courses. English 90. The Teaching of English composition. I; 2 cr. Mr. Leonard.

English 91. The Teaching of English literature. II; 2 cr. Mr. Leonard.

French

See Romance Languages.

Geology and Geography

Major. A minimum of thirty credits in approved courses in the Department of Geography including course 90.

Minor. A minimum of twelve credits made up of course 4 (ten credits)and course 90 (two credits).

Departmental Teachers Course. Geography 90. The Teaching of High School Geography. II; 2 cr. Miss Loft.

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, 90, 91, 130 or 131, 150, and 151. For the maximum number of credits that may be elected see p. 211.

Minor. A minimum of courses 10 or 112, 90, at least four credits in literature from courses 21 to 28, and 130 or 131, i. e. fourteen credits beyond course 2b.

Departmental Teachers Courses. German 90. The Teaching of German. Methods. For seniors and graduates. I; 2 cr. Mr. Morgan.

German 91. 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 credits (not including course 1).

Minor. A minimum of courses 10, 11 and 20, (16 credits.)

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-eight credits which must include courses 10 and 1 for an aggregate of ten credits, course 2 for four credits, course 4 for six credits, advanced courses and thesis to the amount of sixteen credits, and course 90.

Minor. A minimum of sixteen credits in addition to course 91. These sixteen credits must include at least four in advanced courses.

Departmental Teachers Course. History 90. The Teaching of History. I or II; 2 cr. Mr. Chase.

History 91. Supplementary Reading for High School Teachers of History. II; 2 cr. Mr. Chase.

Home Economics

See pp. 329ff.

Industrial Education and Applied Arts

See pp. 331ff.

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 Courses. Latin 90. The Teaching of Latin (required). II; 2 cr. Miss Guyles.

Latin 190. Advanced Course in the Teaching of Latin. The background of high school Latin adapted to the needs of the classroom (elective). II; 2 cr.

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 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 to juniors, seniors, and graduate students only. Miss Hazeltine, Mrs. Davis, and other members of the faculty of the Library School.

Mathematics

Major. (a) An undergraduate major in mathematics consisting of a minimum of twenty-one credits which shall include courses 5, 6, 112 or 113, and other courses numbered 100 or above; (b) course 90; (c) a knowledge of solid geometry acquired in the secondary school or elsewhere; (d) course 91 (not required) is recommended as a desirable course for the junior year.

Minor. The minimum requirements consist of courses 1, 2, 3 (or 4); of courses 51, 52; and course 90. It is understood that not fewer than six credits in mathematics (in addition to the credits for course 90) shall be earned in residence at the University of Wisconsin with a grade not lower than *good*. A knowledge of solid geometry acquired in college or else-

where is expected. It is strongly recommended that students who expect to teach mathematics take a course in calculus.

Departmental Teachers Courses. Mathematics 90. The Teaching of Mathematics I; 2 cr. Mr. Hart.

Mathematics 91. 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: phychology (Philosophy 1), 3 cr.; Education 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 and Psychology

The following course must be completed by all students fulfilling the requirements of the School of Education.

Psychology 1. Introductory course. I or II; 3 cr. Mr. Sharp and staff.

Physical Education

See pp. 339ff.

Physics

Major. A minimum of twenty credits in approved courses in addition to the university requirement of four credits for the thesis.

Minor. A minimum of ten credits in approved courses.

Departmental Teachers Course. Physics 90. The Teaching of Physics. II; 2 cr. Mr. Steve.

Physiography

See Geology and Geography.

Physiology

The Department of Physiology outlines the following as the preparation for teaching human physiology:

Major. A minimum of twenty-three credits as follows: three credits in the Department of Physiological Chemistry; six credits in the Department of Anatomy or Zoology as may be approved in the Department of Physiology; eleven credits in the Department of Physiology including thesis; three credits in any department of the Medical School as may be approved by the Department of Physiology.

In order to fulfill these requirements, Physics 1 (or 31), 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 5, 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.

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.

Departmental Teachers Courses. French 90. Theory and Practice of Teaching. I or II; 2 cr. Mr. Smith, Miss Flint.

French 190. Pronunciation and Phonetics. I or II; 2 cr. Mrs. Greenleaf.

SPANISH

Major. A minimum of twenty credits in advance of second-year Spanish. The following courses are required: at least four credits in composition or conversation, the teachers course (French 90), and at least six credits in Spanish literature.

Minor. A minimum of twelve credits in advance of second-year Spanish. At least two credits in composition and conversation must be included, and at least three credits in some general course in Spanish literature.

Departmental Teachers Course. See French 90 above.

Speech

Major. Forty credits.

Minor. A minimum of twenty credits in approved courses

Departmental Teachers Courses. Speech 190. Seminary in Teachers Problems. (Open only to graduates and senior major and minor students in speech.) Yr.; 2 cr. Mr. Weaver and staff.

Zoology

Major. A minimum of twenty credits from the following courses: Zoology 1a, 1b, 9, 102, 104, 105, 111, 119. 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, 102, 104. 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. I; 2 cr. Miss Weber.

General Science

Departmental Teachers Course. Education 95. The Teaching of General Science. II; 2 cr. Mr. Davis.

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 industrial and applied 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 this catalogue or in the special bulletins of the College of Agriculture.

The courses in industrial education and applied arts and in physical education are given in the School of Education of the College of Letters and Science.

AGRICULTURE

Major: Students in the College of Agriculture who wish to prepare for the teaching of agriculture in secondary schools must, in addition to a major, complete the general requirements as outlined on page 404, and fifteen credits in psychology, education, and agricultural education required for the University Teachers Certificate. The major consists of a minimum of ten elective credits in any department of the College of Agriculture.

University Certificates. Two types of University Certificates are issued to graduates who receive the degree of B. S. (Agriculture): the University Teachers Certificate, entitling the holder to the general license issued by the State Superintendent, and a special University Certificate in Agriculture, leading to the special license in agriculture issued by the State Superintendent. Students registered in the School of Education who fulfill the following requirements in education, and receive the approval of the College, shall receive the University Teachers Certificate:

	Credits
Psychology 1	3
Education 41 (Educational Psychology) *or* Education 11 (Mental Development)	3
Agricultural Education 1 (Rural Education)	3
Education 90 (Technique of Instruction)	2
Departmental Teachers Course (Agronomy 140)	2
Education A	2
	15

Registered and approved students who fulfill the following requirements in education shall be entitled to the Special Certificate only.

	Credits
Psychology 1	3
Agricultural Education 1 (Rural Education)	4
Education 90 (Technique)	2
Departmental Teachers Course (Agronomy 140)	2
Education A	2
	15

Normal School Graduates (Professional Courses), majoring in agriculture, who wish to qualify for the University Teachers Certificate, should elect eight credits distributed as follows:

Education (advanced)	3 or 4 cr.
Agricultural Education (advanced) or Education A	2 or 3 cr.
Departmental Teachers Course	2 cr.

Candidates may be excused from the departmental teachers course with the approval of Dean James.

Departmental Teachers Course. Agronomy 140. The Teaching of Plant Production. I or II; 1 cr. 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 are in home economics. One hundred twenty grade points are required for graduation. (One hundred twenty-four credits are required for the University Teachers Certificate.)

General Course in Home Economics

See pp. 404ff.

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 (Smith-Hughes). See pp. 410ff.

The requirements for a major in home economics are not less than twenty-five credits nor more than thirty credits in strictly home economic subjects, including the thesis, taken during the junior and senior years.

The outline of the work of the junior and senior years for the various majors is given on pp. 406ff. and in the bulletin of the Course in Home Economics.

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-five, 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 124 credits required for graduation. The following courses in psychology and education are required:

	Credits
Introductory Psychology	3
Educational Psychology (Education 41) *or* Mental Development (Education 11)	3
or Humanics (Home Economics 109)	
Principles of Education (Education 31)	3
Technique of Instruction (Education 90)	2
Departmental Teachers Course	2
Educational Practice (Education A)	2
	15

Minor. A minimum of ten to twenty credits. A minor may be taken in foods, textiles, or housing problems.

(1) A teaching minor in foods includes the teachers' course, in addition to Home Economics 1a-b, and other related courses such as 3 and 47, to make fifteen to twenty credits in strictly home economics subjects.

(2) A teaching minor in textiles includes Home Economics 2, 5, 10, 11, 50, 90, and other courses in home economics to complete twenty credits.

(3) The housing minor is offered to students majoring in sociology in order that those intending to do special settlement work, or social welfare work, will have a broader founation knowledge of the fundamental problems in housing. Home Economics 1a-b, 70, and other related courses may be elected in the minor.

Departmental Teachers Courses. Home Economics 90. The Teaching of Home Economics in High Schools. Prerequisite: a major or minor in home economics. 2 cr. Miss Henderscn.

Home Economics 124. Vocational Education in Home Making. History and Methods. 2 cr. Miss Henderson.

Home Economics 190. Advanced Course in Home Economics Education. Educational problems. 2 cr. Miss Henderson.

Home Economics 290. Supervision in Home Economics. 2 cr. Miss Dodge.

INDUSTRIAL EDUCATION AND APPLIED ARTS

See Department of Industrial Education and Applied Arts, pp. 222ff. for course descriptions.

Divisions

I. Manual and industrial arts.

II. Drawing, painting, design, commercial art, art-crafts.

III. Industrial education and administration.

Objectives in Instruction and Training

1. Avocational—appreciation through participation.
2. Vocational—
   a. Junior executives in trade and industry (division of education and training).
   b. Teachers and supervisors of manual and industrial arts in public schools.
   c. Teachers, administrators, and coordinators in part-time or continuation schools.
   d. Commercial and industrial artists and designers.
   e. Teachers and supervisors of drawing, design, and crafts in public or private schools.

Courses of Study

I. Four Year Course in Industrial Education (Major in Industrial Education) Leading to the Degree of B.S. (Industrial Education)

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
History or Language*	3-4	History or Language*	3-4
Mathematics	3	Mathematics	3
Mechanical Drawing (Ind. Ed. 1)	3	Mechanical Drawing (Ind. Ed. 2)	3
Departmental	3	Departmental	3
Total	15-16	Total	15-16

Military Science
Physical Education
See p. 503.

Physical Education
Military Science
See p. 511.

Sophomore

Analytic Geometry (Math. 3)	3	Descriptive Geometry (Drawing 3)	3
Physics or Chemistry*	5	Physics or Chemistry*	5
Freehand Drawing (Ind. Ed. 50)	3	Freehand Drawing (Ind. Ed. 51)	3
Departmental	3	Departmental	3
Elective		Elective	
Total	15-16	Total	15-16

Military Science
Physical Education
See p. 503.

Military Science
Physical Education
See p. 503.

Junior

Psychology 1	3	Education 31	3
Education 11 or 41	3	Departmental	7-10
Departmental	6-9	Elective	
Elective			
Total	15-16	Total	15-16

*A continuous year of the course chosen in the first semester.

Senior

First Semester	Credits	Second Semester	Credits
Education 90	2	Departmental	9-11
Educational Practice (Education A)	2	100. Thesis 2	
Departmental	7-9	113. Vocational Education and Guidance 2	
90. Psychology of Teaching Art and Industrial Subjects 2		Elective	4- 7
100. Thesis 2			
Electives	2-5		
Total	15-16	Total	15-16

Requirements for Graduation

124 credits; 124 grade points; departmental courses elected as advised below—minimum of 47 hours exclusive of six credits mechanical or freehand drawing. Maximum of 62 hours exclusive of six credits for drawing either freehand or mechanical.

Departmental Group Electives for Course I

Group 1. Mechanical Drafting.

Group 2. Woodworking Trades and Industries and Related Technical Work.

Group 3. Metal-working Trades and Industries and Related Technical Work.

Group 4. Printing Trades and Industries and Related Technical Work.

Group 5. Clay, Tile, and Cement Industries and Related Technical Work.

Group 6. Executive and Supervisory.
- (a) Manual and Industrial Arts in Public Schools.
- (b) All-day Vocational and Continuation Schools.
- (c) Education and Training Division in Corporation Schools
- (d) Employment Management.
- (e) Health and Safety.
- (f) Employe Service.
- (g) Research.
- (h) Joint Control.
- (j) Production Control.

Group 7. Instructors of Academic Subjects in All-Day Vocational and Continuation Schools.
- (a) English.
- (b) Government—Citizenship, Americanization, Economics.
- (c) History.
- (d) Geography and Physiography.
- (e) Recreation and Health.

Group 8. Electrical Trades and Industries and Related Technical Work.

Group 9. Building Trades and Industries and Related Technical Work.

Group 10. Automotive Trades and Industries and Related Technical Work.

Specific advice as to the courses best suited to accomplish any one of the above group specializations is contained in the *Announcement of Courses of the Department of Industrial Education and Applied Arts* (1922-23). This bulletin may be obtained from the chairman of the department.

II. Four-Year Course in Applied Arts (Major in Applied Arts) Leading to the Degree of B.S. (Applied Arts)

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
History or Language*	3-4	History or Language*	3-4
Mathematics, Biology, or Chemistry†	3-5	Mathematics, Biology, or Chemistry†	3-5
Departmental	3	Departmental	3
54. Modeling 3		72. Design applied to wood 3	
50. Freehand Drawing 3		51. Freehand Drawing 3	
7. Lettering 1 or 2		7. Lettering 1 or 2	
Total	15-16	Total	15-16
Military Science		Military Science	
Physical Education		Physical Education	
See p. 503.		See p. 503.	

Sophomore

English 30, 33, or 2	2-3	English 30, 33, or 2	2-3
History or Language*	3	History or Language*	3
Departmental	3-5	Departmental	3-5
56. Applied Drawing and Painting 3		56. Applied Drawing and Painting 3	
60. Survey of Graphic and Decorative Arts 2		60. Survey of Graphic and Decorative Arts 2	
62. Design: Line and Form 3		62. Design: Surface enrichment 3	
Mechanical Drawing (Ind. Ed. 1)	3	Mechanical Drawing (Architectural) (Ind. Ed. 18)	3
Electives		Electives	
Total	15-16	Total	15-16
Military Science		Military Science	
Physical Education		Physical Education	
See p. 503.		See p. 503.	

*If history is chosen it must be in year courses; if language is chosen it must be in a continuous course in one language throughout the four semesters.

†A continuous year of the course chosen in the first semester.

Junior

Psychology 1	3	Education 31	3
Education (Course 11 or 41)	3	Departmental	7-10
Departmental	6-9	70. Art Metal 3	
70. Art Metal (Jewelry) 3		71. Pottery 3	
71. Pottery 3		63. Commercial Art 3	
63. Commercial Art 3		80. Elem. Const. Work 3	
Electives		Electives	
Total	15-16	Total	15-16

Senior

First Semester	Credits	Second Semester	Credits
Education 90	2	Departmental	9-11
Educational Practice (Education A)	2	112. Supervision and Teaching of Special Subjects 2-3	
Departmental	7-9	57. Architectural Rendering 3	
90. Psychol. of Teaching Arts and Industrial Subjects 2		113. Vocational Education and Guidance 2	
111. Org. and Adm. 2		131. Advanced Design 2-3	
132. Art Structure 2-3		132. Art Structure 2-3	
130. Experimental Design 2-3		116. Tests and Measurements 2	
129. The Continuation School 2		100. Thesis 2	
100. Thesis 2		Electives	4-7
Electives	2-5		
Total	15-16	Total	15-16

Note: Required for graduation, 124 credits, 124 grade points.

Minors in Industrial Education and in Applied Arts: B.A. or Ph.B. (General Course)

1. General Provisions:

Candidates for the Teachers Certificate and the degree of B.A. or Ph.B. (General Course) may take one of the

minors offered in the Department of Industrial Education and Applied Arts, in accordance with the following regulations:

(1) If the minor is of such scope that completion of it does not entail a total amount of work in excess of 130 credits, only such courses (forming part of the minor) shall be counted toward the 124 credits required for graduation and the teachers certificate as may be counted toward graduation by Letters and Science students not taking a minor in Physical Education or Industrial Education and Applied Arts. But if the minor is of such content that completion of it under this rule would entail a total amount of work equal to 132 credits, then an additional starred 2-credit course may be counted as if it were unstarred, so that the student may complete his entire course, including teachers certificate and minor in Industrial Education and Applied Arts, with 130 credits.

(2) To receive credit for starred courses in Industrial Education and Applie dArts included in any given minor the entire minor must be completed.

(3 Students taking a minor in Industrial Education and Applied Arts (if on that account more than 124 credits must be earned) may carry seventeen credits each semester, in the junior and senior years, without reference to their former grades, on condition that such a program shall include at least one starred course in Industrial Education and Applied Arts.

2. Specific Requirements.

1. A General Minor in Industrial Education and Applied Arts. A minor for superintendents, principals, and other administrators to consist of industrial education and applied arts courses 1—Mechnical Drawing; 4—Elementary Woodwork; 50—Freehand Drawing; 90—Teaching Industrial and Applied Arts; 113—Vocational Education and Guidance; 114—Vocational Guidance and Placement; 129—The Continuation School; a total of sixteen hours.

The Continuation School; a total of sixteen hours.

2. A Minor in Woodworking, requiring the completion of courses 1—Mechanical Drawing; 4—Elementary Woodwork; 5—Furniture Design and Construction; 19—Tools and Materials; 90—Teaching Industrial and Applied Arts; 111—Organization and Administration of Manual and Industrial Arts—a total of 15 hours.
3. A Minor in Metalworking, requiring the completion of courses 1—Mechanical Drawing; 32—Forge and Bench Work; 43—Foundry Work; 34—Lathe Work in Metals; 35—Planing and Milling; 36—Tool Making; 11—Shop Planning and Installation; 90—Teaching Industrial and Applied Arts; 111—Organization and Administration of Manual and Industrial Arts; a total of fifteen hours.
4. A Minor in Mechanical Drawing, requiring the completion of courses 1—Mechanical Drawing; 2—Advanced Mechanical Drawing; 18—Building Plans and Specifications; 57—Architectural Rendering; 90—Teaching Industrial and Applied Arts; 111—Organization and Administration of Manual and Industrial Arts; a total of sixteen hours.
5. A Minor for Directors and Teachers of Shop, Academic, or Related Technical Subjects in Public Part-time or Continuation Schools, or in Corporation Schools. Shop teachers must have had grade experience. Courses required are 1—Mechanical Drawing or 50—Freehand Drawing; 90—Psychology of Teaching Arts and Industrial Subjects; 113—Vocational Education and Guidance; 114—Vocational Guidance and Placement; 117—Trade Analysis; 120—Job Analysis; 121—Employee and Foremanship Training; 129—The Continuation School, a total of sixteen hours.
6. A Minor in Drawing, Design and Crafts (Applied Arts), requiring the completion of courses 50—Freehand Drawing; 54—Modeling or 80—Elementary Handwork; 62—Design; 90—Teaching Industrial and Applied Arts; 111—Organization and Special Methods of Teaching the Applied Arts and one of the

following: 70—Art Metal, or 71—Pottery, or 72 Design Applied to Wood; a total of sixteen hours.

7. A Minor in Handwork for Teachers of (1) Elementary Schools,, (2) Occupational Therapy, requiring the completion of courses 50—Freehand Drawing; 54—Modeling; 62—Design; 80—Elementary Handwork; and one of the following: 70—Art Metal; or 71—Pottery; or 72—Design Applied to Wood, a total of fifteen hours.

Two Year Courses for Graduates of an Industrial Normal School

Leading to the degree of B.S. Industrial Education or B.S. Applied Arts

The conditions governing the administration of the four-year courses in Industrial Education and Applied Arts shall control in the administration of these courses except as follows:

(a) Transfer of credit for academic subjects shall be under existing university regulations.

(b) Transfer of credit for industrial arts and vocational education subjects shall be made upon the basis of the recomendation of the Department of Industrial Education and Applied 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 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 Industrial Education or Applied Arts those subjects for which he does not have credit or which he has not pursued.

Graduate Work

Independently, and in conjunction with the Department of Education and allied departments, ample opportunitiy 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 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 for purposes of developing the required knowledge and ability necessary for positions of leadership.

PHYSICAL EDUCATION

For further information see Department of Physical Education.

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

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Foreign Language	4	Foreign Language	4
Chemistry 1a	5	Chemistry 1b	5
History or Mathematics	3-4	History or Mathematics	3-4
Physical Education 20		Physical Education 20	
Total	15-16	Total	15-16

For optional work in Military Science, see p. 511.

Sophomore

Physics 65	3	Physics 65	3
Zoology 3	3	Foreign Language or Elective	3
Foreign Language or Elective	3	Departmental	2-4
Psychology 1	3	Physical Education 20	
Physical Education 59	3		
Departmental	1		
Physical Education 20			
Total	16	Total	14-16

For optional work in Military Science see p. 511.

Junior

Physical Education 56 or 58	3	Physiology 115	5
Physiology 115	5	Hygiene 5	2
Physiological Chemistry 114	3	Physical Education 163	2
Departmental	1-3	Education 41 or 11	3
Elective	2-4	Departmenal	2-4
Physical Education 20		Physical Education 20	
Total	14-16	Total	14-16

Senior

Physical Education 90 (women)	2	Physical Education 90 (men)	2
Physical Education 19	2	Physical Education 114 (women)	3
Physical Education 163	2	Physical Education 168	2
Physical Education 114 (men)	3	Physical Education 19	2
Education 90	2	Thesis	2
Thesis	2	Departmental	1-2
Departmental	1-2	Electives	4-6
Electives	2-4	Physical Education 20	
Physical Education 20			
Total	15-16	Total	15-16

Electives in Physical Education

First Aid (16), 1 cr. Scouting (71), 2 cr., Community Recreation (80), 2 cr., Special Techniques (21-35 and 40-54), 6-10 credits required.

General Requirements

1. A total of 124 credits is required for graduation from this course, leading to the degree of Bachelor of Science, Physical Education Course.

Language and Other Requirements

2. 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. See entrance requirements p.

Minors in Physical Education

Election of Courses in Physical Education

Courses marked ⋆ cannot be counted toward graduation by students in the College of Letters and Science who are not registered in the Course in Physical Education, School of Education.

The minor in Physical Education enables students to specialize in the subject even though they do not adopt it as a major. Provision is thus made for students to qualify themselves to teach physical education in connection with academic subjects in the high schools.

Any *one* of the minors enumerated below may be elected by candidates for the University Teachers Certificate under the following provisions:

(1) to receive credit for starred courses in physical education included in any given minor the entire minor must be completed;

(2) the total number of credits required for graduation with the certificate is, for students taking a minor in physical education, 128; of this number not more than 12 may be in physical education;

(3) this total may be attained:

(a) by work done during an additional period of residence or

(b) by carrying 17 credits each semester, provided, however, that such a program must include at least one starred course in physical education.

I. FOR MEN

1. *Athletic Coaching* .....12 credits

This minor is offered to qualify men to meet the demands of high schools and colleges for men to coach and supervise athletics in connection with the teaching of some academic subject.

No.	*Cr.*	*Course*
55	2	History and Principles of Physical Education
★17	2	Athletic Training and First Aid
★168	2	Organization and Administration of Physical Education and Athletics
★29	1	Special Technique (football)
★23	1	Special Technique (basketball)
★24	1	Special Techanique (track)
★21	1	Special Technique (gymnastics)
	2	Special Technique (choice)

Practical work which is required, but given no academic credit, is to be arranged at the discretion of the department according to the student's needs.

2. *Gymnastics or Formal Physical Education*.....12 credits

This minor is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subject.

No.	*Cr.*	*Course*
55	2	History and Principles of Physical Education
★58	2 or 3	Human Mechanics (Including Essentials of Kinesiology, Physiology of Exercise, and Physiology).
★61	2	Physical Education in Elementary and Secondary Schools
★71	2	Scouting and other Adolescent Organizations
★22	1	Special Technique (Plays and Games)
★21	1	Special Technique (Gymnastics)
		Special Technique (Choice)

Practical work which is required, but given no academic credit, is to be arranged at the discretion of the department according to the student's needs.

Note: Only 12 hours may be credited.

II. FOR MEN AND WOMEN

3. *Community Recreation* .....12 credits

This minor is offered to meet the demand for play and recreational leaders especially equipped for the organization, administration, and supervision of play and recreational activities in various communities and industrial concerns.

No.	*Cr.*	*Course*
16	1	First Aid to the Injured
59	3	Nature, Function, and Organization of Play
80	2	Community Recreation
★71	2	Scouting and other Adolescent Organizations
	1	Special Technique (Plays and Games)
	3	Special Technique (Choice)

The department will advise with the student in the choice of techniques, according to the field of work the student purposes to enter, and additional practice work without credit may be required at the discretion of the Department.

The following additional courses are suggested for those electing the Recreation Minor:

1. Sociology (Economics 46 and 140)
2. Economics 1a and 1b.
3. Industrial Education 80.
4. Home Economics
5. Music 78 and 67 (Summer Session)

II. FOR WOMEN

4. *Physical Education—Gymnastics*.....12 credits

This minor is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subject in secondary and elementary schools. This course includes:

No.	*Cr.*	*Course*
★56	3	Kinesiology (Anatomy 120, a prerequisite)
★90	3	Teaching and Adaptation
★19	2	Supervised Teaching
★41	1	Gymnastic Technique

The three additional credits may be elected from the following group of courses:

No.	*Cr.*	*Course*
16	1	First Aid to the Injured
★42★45 ★43★46 ★47★48 ★44★49	1 each	Special Technique (Special technique courses are those which give special instruction in methods of presenting the practical work in physical education)

Physiology 1 is required for those students who are not majoring in physiology.

5. Intrepretative Dancing ..... 12 credits

No.	*Cr.*	*Course*
*56	3	Kinesiology (Anatomy 120 a prerequisite)
★90	3	Teaching and Adaptation
★43	1	Special Technique of Folk Dancing, elementary
★49	1	Special Technique of Folk Dancing, advanced
★46	1	Theory and Technique of Interpretative Dancing

The three additional credits may be secured from the following group of courses.

No.	*Cr.*	*Course*
★42	1	Plays and Games
16	1	First Aid to the Injured
★163	2	Gymnastic Therapeutics
80	2	Community Recreation

Physiology 1 (3 credits) is required for those students who are not majoring in physiology.

The following courses in other departments are recommended to those electing this minor:

1. Speech
   - 12a. (Fundamentals of Vocal Expression)
   - 12b. (Fundamentals of Vocal Expression)
   - 16. (Dramatic Expression)
   - 17. (Public Reading)
   - 119. (Dramatic Production)
2. Philosophy and Psychology
   - 20. (Human Traits)
   - 25. (Man and Nature)
   - 51. (Aesthetics)
   - 108. (Psychology of the Emotions)
3. Music
   - 65. (Musical Appreciation)

Practical work which is required, but which is given no academic credit, is to be arranged at the discretion of the Department according to the student's needs.

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 three-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 p. 346.

Special students under twenty-one years of age, who have unusual musical talent, may in exceptional cases, be admitted to the courses in 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 Reigstrar, Room 158, Bascom Hall.

Students enrolled in other schools and colleges of the University are permitted by the School of Music to elect up to twenty credits in music. Of these, ten credits in advanced applied music instruction may be taken by juniors and seniors after the approval of the 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.

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 Hayden 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 Dancia, Alard, and others.

Courses

I. Four-year course in music leading to the degree of Bachelor of Music.

*See third paragraph under Faculty and Student Recitals.

In this course the candidate may choose his major in one of the following departments: Applied Music, History and Theory, Public School Music.

120 credits are necessary to graduate with the degree of Bachelor of Music. Of these 120 credits, 66 are obtained in the School of Music, 54 in the College of Letters and Science.

In the first two years the course is prescribed with the exception of three credits elective in Music in the sophomore year. In the junior and senior years there are certain prescribed studies in Music for all students, together with a number of prescribed electives chosen according to the major subject. (See p. 348.) The remaining credits are made up of electives in the College of Letters and Science and School of Music. This course has the same foreign language requirements as the general B.A. course.

II. A three-year course in Public School Music with special certificate is also given in the School This course is the first three years of the four year course.

For more specific details regarding this, apply to the Director of the School of Music.

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

Military Science
Physical Education
See p. 503.

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 or 3
English or History	2 or 3
Total	15 or 16

Military Science
Physical Education
See p. 503.

Junior	Credits	Senior	Credits
Music 21, Counterpoint	2	Music 100, Thesis or Recital	1 or 2
Music 31, History	2	Music, Prescribed electives,	3 or 4
Music, Prescribed electives	5	Music, Free electives	3, 4 or 5
Letters and Science,		Letters and Science,	
*Electives	3	**Electives	6
Electives	3		
Total	15	Total	15

Prescribed Electives:

Form and Analysis, Music 5
Advanced Harmony, Music 102
Advanced Counterpoint, Music 112
Canon and Fugue, Music 122
Ensemble, Music 85 and 86
Selection and Interpretation of Materials, Music 79
Applied Music 81-2-3-4
Pedagogical subjects
Practical Instrumentation, Music 89

The maximum credits for students in individual instruction in Applied Music will be 16.

Music total	66
Letters and Science	54 or 56
	54 or 56
Total	120†

Unless excused by the Director of the School of Music, students majoring in

a. Vocal music are required to sing one year in the Choral Union and two years optional with one of the Glee Clubs or Choral Union.

b. Public school music (four years) are required to sing in the Choral Union two years with a third year optional either with one of the Glee Clubs or the Choral Union.

c. Public school music (three years) are required to sing in the Choral Union for two years.

4. Orchestral instruments are required to play in the University Orchestra.

e. Piano and organ are required to study some orchestral instrument for experience in orchestral routine.

All candidates for the degree of Bachelor of Music are required to pursue their studies in accordance with the above schedule.

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*Students registered in the School of Education must satisfy the specified requirements of that School.

**Physics 1, including acoustics, by arrangement with the Department of Physics.

†The same number of grade points is also required.

Special State Certificate

Students satisfactorily completing the three-year course for Supervisors of Music will be entitled to a recommendation to the 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, 123 Bascom Hall), providing:

(a) That the student registers in the School of Education not later than December 1 of the first year of residence.

(b) That the student has earned the following credits as electives: Philosophy 1 (Psychology), 3 credits; Education 6 (Public Education), Education 11 (Mental Development), Education 31 (Principles of Education), Education 41 (Educational Psychology), or Education 90 (Technique of Instruction), 3 credits.

(c) That the student presents a statement from the Director of the School of Music as to general fitness for teaching.

Special Class for Grade and High School Teachers

This class 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. The course is of value to those who expect to teach in public schools or who wish to conduct high school choruses, and include training in conducting.

Public School Drawing

Students who take the Supervisors' courses 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 Arts are available: Course 50, Theory and practice of freehand drawing, 3 cr,; Course

*Students registered in the School of Education must satisfy the specified requirements of that School.

54, Modeling, 3 cr.; Course 62, II, Design, 3 cr.; Courses 70, Art Metal, 71, Applied design in clay, or 72, Applied design in wood, 3 cr.; Course *90, Psychology of teaching industrial applied arts, 3 cr.; Course *111, Organization, administration, and special methods, 2 cr.

Instruction in Applied Music

Pianoforte, Mr. Coon, Miss Lockwood, Mr. Iltis, Miss Landon.

Voice Culture: Mr. Swinney, Miss Peterson, Miss Holst.

Organ: Mr. Mills, Miss Eastman.

Violin and Viola: Mr. Burleigh, Mr. Morphy.

Orchestral Instruments

Violoncello and Double-Bass: Mr. Morphy.

Wood-Wind Instruments: Mr. Morphy.

Brass Instruments: Mr. Morphy.

Orchestra

Mr. Morphy.

The University Orchestra is composed of about sixty-five players. The purpose of the organization is to study the larger classical forms, and to present these in public.

Rehearsals are held weekly in Music Hall during the school year. Membership is open to the entire student body, and to others who may qualify. After two semesters' enrollment in the orchestra, a university student may receive one credit of one hour for each of the two following semesters. This work is catalogued as collegiate course 76.

Band

The University Band consists normally of about one hundred and ten men, divided equally between two organizations known as the First Regiment Concert Band, and the Second Band, the former being mainly a concert organization. The

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*This course does not count toward the requirements for graduation from the College of Letters and Science except for students in the course in Industrial Education or Applied Arts.

latter forms a training school for the less experienced students. The First Regiment Band rehearses twice per week while the Second Band rehearses three times each week. Freshmen and sophomore belonging to the band receive military credit. Students who desire to join should confer with the bandmaster.

Choral Union

MR. DYKEMA.

The Choral Union is open to all members of the University interested in studying and presenting orations 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 second semester.

University Men's Glee Club

MR. SWINNEY.

The University Men's Glee Club is an organization of forty 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 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 and Student Recitals

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, free to all students of the University and open to all others by invitation, are held at frequent intervals throughout the collegiate year.

Public performances 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, three two-manual organs, pianos, orchestral and band instruments, and an equipment of mechanical instruments.

Tuition

See pp. 88ff.

Neither the incidental fee nor the nonresident tuition is required of students taking private instruction in Applied Music

only. Persons who are members of other schools and colleges of the University may take the theoretical courses in music without charge.

Students of the School of Music not otherwise connected with the University are admitted to theory classes on payment of the usual incidental fee charged to students of the University. If nonresidents of the state, such students will be required to pay the nonresident fee.

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, 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 beginning 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, of the semester, and by appointment 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 beginning of each semester for the reception of students and assignments 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.

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. 121ff.

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

The College of Engineering Circular, giving detailed information concerning the College, may be obtained upon application to the Registrar of the University.

freshman mathematics, but are required to 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 simplification of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should appreciate the reasons for all that he does, and be able to state these reasons clearly. 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 state fully the reason for the steps taken.

Student Advisers

In the selection of studies and arrangement of programs, 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 and to the parent or guardian all cases requiring special action.

Reports to parents or guardians on the scholastic standing of students are sent from the Registrar's office at the end of each semester.

Fees and Expenses

See pp. 88ff.

Equipment

Buildings

The main building of the College of Mechanics and Engineering contains offices, recitation and drawing rooms, the engineering library, and laboratories for work in steam and gas engineering, and for the testing of materials. A second building contains the electrical laboratories; a third, the various departments for shop instruction; a fourth, the laboratories for chemical engineering; a fifth, the hydraulic laboratory; and a sixth, the mining building, the ore dressing and assaying laboratories

For chemistry the engineering students go to the Chemistry Building, for physics to Sterling Hall, and for language, mathematics, and other similar work, to the literary halls of the University.

Libraries

For a general account of library facilities of the University see page 85.

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 designs.

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 coarse 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.

The 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 Engineering Shops afford excellent facilities for mechanical practice. There are five departments: Machine Shop, Forge Shop, Pattern Shop, Foundry, and Carpenter Shop.

The Machine Shop has a well balanced equipment for handling classes in elementary and general shop work. The heat treatment room has several gas furnaces with pyrometers for annealing, hardening, tempering and case hardening operations.

The Forge Shop is equipped with the latest design down-draft forges, and direct connected blast-exhaust unit.

The Pattern Shop has 24 wood lathes, with sets of turning tools, and standard individual work benches with the necessary tools for general pattern making, a small bench jointer, and 14-inch band saw.

The Foundry is equipped with 16-inch cupola, brass furnace, core oven, two molding machines, 24 individual molding benches with sets of tools, motor driven riddle, and rattle box.

The Carpenter Shop is equipped with power wood working machines, such as jointer, planer, universal saw, band saw, and sander.

The Carpenter Shop is used for the preparation of material used in pattern making and for the Short Course work.

A number of first class machines purchased under the Caldwell Act have been added to the Machine and Carpenter Shops.

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 Mining and Metallurgical Building contains about 12,000 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 manufacture 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 15-ton refrigerating plant, consisting of a Corliss engine directly 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 50-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 producer, 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 new piece of apparatus is a specially equipped Nash air and condensate pump for making tests approximately heating conditions. 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. A very complete apparatus for testing the efficiency of shaft bearings of various types has been built in the college shops and is now available for research work.

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, heliotropes, precise-level, sounding apparatus, baseline apparatus, including an "invar" tape, current meters, transits, compasses, levels, plane tables, telemeters, planimeters, pantographs, sextants, aneriod barometers, etc.

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 a 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, seven Olson and Riehlé universal machines from 10,000 to 200,000 pounds

capacity, a Thurston torsion machine, a Russell impact machine, a Deval abrasion machine, a Dorry abrasion machine, a standard brick rattler, hardness testers, 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, 1000 pound Riehlé and Fairbanks testing machines, etc.

The Forest Products Laboratory is conducted in cooperation with the work of the University, and offers unusual 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 p. 521.) 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 Deterioration and Preservation, (4) Wood Technology, (5) Pulp and Paper, (6) Chemistry of Wood, (7) Lumbering and Manufacture, (8) Glues, Veneers and Plywood, and (9) Shipping Containers.

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.

Courses of Study and Degrees

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.

For admission to the Graduate School, an official transcript of the undergraduate record of the applicant should be forwarded to the Dean of the Graduate School, 157 Bascom Hall, some weeks in advance of the opening of the session.

The degree of master of science (in civil engineering, mechanical engineering, etc.) is conferred upon graduates of approved institutions who have completed suitable undergraduate courses and 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. For a complete statement of the requirements see Index under Degrees.

The degrees of civil engineer, mechanical engineer, electrical engineer, chemical engineer, and engineer of mines are conferred upon graduates of the College of Engineering of the University of Wisconsin who have spent five years in professional work, at least one of which must have been in a position of responsibility, and who present a satisfactory thesis. For a complete statement of the requirements, see Index under Degrees.

The degree of doctor of philosophy is 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.

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 six weeks of field work (four weeks of topographic engineering and two weeks of railway engineering), following either the sophomore or the junior year. For mechanical engineers, the requirement consists of not less than six weeks of approved summer work in industrial practice. The electrical engineers are required to take six 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. Mining engineers are required to spend a considerable portion of two summer vacations at work in different mining regions, and the metallurgical engineers a corresponding time in metallurgical works. The third summer is occupied by the mine inspection trip.

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 trip takes a week's time and visits are made to plants in Milwaukee, Kenosha, Waukegan, Chicago, Buffington, and Gary.

The civil engineers visit the cities of Chicago and Milwaukee, the former in the spring of the junior year, the latter 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.

In the second semester of the freshman year mining engineers make a trip to a mine in one of the nearer districts for the purpose of making a complete mine survey, and while there make a complete inspection of the operation.

In metallurgy the students annually inspect the metallurgical works around Chicago, the trip lasting a week.

At the end of the junior year, or, if advisable, just after their commencement, mining engineering students in mining and in metallurgy are required to take the long western inspection trip, visiting mining and metallurgical centers throughout the northwest. This trip lasts about six weeks.

Theses

In all courses candidates for a second or a professional degree in engineering shall submit a thesis. The thesis requirements of the different courses in the College of Engineering pertaining to candidates for the B.S. degree are as follows:

In the civil engineering course a thesis is required. In the electrical, mechanical, and mining engineering courses a thesis is optional. In chemical engineering a course in special problems replaces the thesis requirement.

If a thesis is taken, the subject of the thesis shall be selected by the student after consultation between the student, his adviser, and the instructor who is to direct the work, and it shall be submitted to the Course Committee for approval. The total number of credit hours granted for this work shall not be less than three nor more than five, except by special action. The thesis is to be typewritten according to specifications furnished by the librarian of the University, and before it is accepted must be approved by the instructor under whom the work has been done. It shall be deposited in the University Library by the Tuesday before commencement.

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 years 1921–22, and 1922–23.

October 3, 1921.

Mr. Albert A. Northrup of the Stone and Webster Company.

"The Construction of the Caribou Hydro-Electric Power Plant."

February 10, 1922.

Mr. H. Austin, chemical engineer, London and New York.

"Vacuum Evaporation and Solvent Extraction."

April 21, 1922.

Dr. Elwood Mead, chairman of California State Land Settlement Board.

"A State Experiment in Land Settlement."

May 8, 1922.

Mr. John Mills, radio engineer, Western Electric Company, New York City.

"The Human Voice and Its Electrical Transmission."

October 18, 1922.

Dr. Ira O. Baker, Emeritus Professor of Civil Engineering, University of Illinois.

"Factors Necessary for Highest Engineering Success."

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 2a	4	Chemistry 2b	4
English 1a	3	English 1b	3
Topographic Engr. 1	2	Topographic Engr. 2	2
Total	17	Total	17
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	
Freshman Lectures		Freshman Lectures	

SOPHOMORE YEAR

Mathematics 54	4	Mathematics 55	4
Physics 51	5	Physics 52	5
Drawing 3	3	Mechanics 1, 2	5
Topographic Engr. 3	3	Topographic Engr. 104	3
Railway Engr. 1	2		
Total	17	Total	17
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	

JUNIOR YEAR

Mechanics 3	5	Mechanics 52	2
Mechanics 51	2	Hydraulic Engr. 110	2
Hydraulic Engr. 2	4	Railway Engr. 110	2
Railway Engr. 2	3	Structural Engr. 2	4
Geology 9	3	Steam and Gas Engr. 7	2
Roads and Pavements 102	2	Economics 1a	4
Engr. English 1a	1	Engr. English 1b	1
		Elective	3
Total	20	Total	20

Six weeks of Summer Camp, including two weeks of Railway Survey and four weeks of Topographic Engineering.

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 and Gas Engr. 127	2	Elect. Engr. 149-150	4
Hydraulic Engr. 111	3	Railway Engr. 111	1
Engr. English 2a	1	Engr. English 2b	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 students 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 or Mechanics 106	Secondary Stresses, or	2	II
Mechanics 108	Advanced Mechanics		

Additional Suggested Electives

Structural Engr. 106, 109, 112 Mechanics 108

RAILWAY OPTION

Ten credits to be elected from the following group:

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. Eng. 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	Hydraulic Machinery Testing..2	I
Hyd. & San. Engr. 104	Water Power Engineering.....3	I
Engr. 105	Hydraulic Machinery 2	II
Engr. 112	Sewerage, Drainage and Irrigation 3	II
Engr. 113	Hydraulic Design 4	I or II

MUNICIPAL OPTION

The following courses are required:

JUNIOR YEAR

City Planning 101	City Planning 2	I or II
Hygiene 107	Water and Sewage Analysis...2	II

SENIOR YEAR

Hyd. & San. Engr. 112	Sewerage, Drainage, Irrigation 3	II

HIGHWAY OPTION

Highway Engr. 103	Seminary 3	I
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 or II

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 B. S. Degree

FRESHMAN YEAR

First Semester	Credits	Second Semester	Credits
Mathematics 51	5	Mathematics 52	5
Drawing 1	3	Drawing 2	3
Chemistry 2a	4	Chemistry 2b	4
English 1a	3	English 1b	3
Shopwork 1, 2, 3	2	Shopwork 4, 5	2
Total	17	Total	17

Physical Educ., see page 503
Military Science, see page 511
Freshman Lectures

Physical Educ., see page 503
Military Science, see page 511
Freshman Lectures

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
		Mechanics 1, 2	5
Total	16	Total	18
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	

The equivalent of four credits for industrial practice. See Shopwork Course 10.

Junior Year

Mechanics 3	5	Steam and Gas 22	2
Mechanics 53	2	Steam and Gas 2	4
Steam and Gas 1	4	Hydraulic Engr. 1	3
Machine Design 3	4	Machine Design 4	4
Shopwork 7	2	Machine Design 12	2
*Electives	3	Electrical Engr. 144	3
		Elect. Engr. 130	2
Total	20	Total	20

Senior Year

Steam and Gas 105	2	Steam and Gas 106	2
Steam and Gas 23	2	Administration 102	2
Administration 101	3	Administration 103	3
Elect. Engr. 144	3	Steam and Gas 124	1
Elect. Engr. 132	2	Shopwork 9	1
Shopwork 12	1	Chemical Engr. 8	2
Electives	6	Machine Design 109	2
		Thesis and Electives	6
Total	19	Total	19

*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 2a	4	Chemistry 2b	4
Total	17	Total	17
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	
Freshman Lectures		Freshman Lectures	

Six weeks of approved summer experience in an engineering or industrial organization.

SOPHOMORE YEAR

Mathematics 54	4	Mathematics 55	4
Physics 53	3	Physics 54	3
Drawing 3	3	Machine Design 1	4
Economics 1a	4	Elect. Engr. 140a, 140b	5
Topographic Engr. 108	3	Shopwork 6	2
Total	17	Total	18
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	

JUNIOR YEAR

Mechanics 1, 2	5	Mechanics 3	5
Physics 55	3	Physics 56	3
†Steam and Gas 3	3	†Steam and Gas 4	3
Electrical Engr. 141	4	Steam and Gas 28	2
Electrical Engr. 102	2	Electrical Engr. 143a	4
Hydraulic Engr. 1	3	Electrical Engr. 112a	2
		Elective	0
Total	20	Total	19

†Students may substitute Steam and Gas 1 and 2 required for mechanical engineers and count the additional two credits as elective.

Senior Year

First Semester	Credits	Second Semester	Credits
Mechanics 53	2	*Contracts 101	2
Machine Design 5	3	Electives	18
Electrical Engr. 125	2		
Electrical Engr. 143b	4		
Electrical Engr. 112b	2		
Electives	6		
Steam and Gas 29	1		
Total	20	Total	20

ELECTIVES

Of the 24 elective credits, 12 are free electives and 12 must be selected from the following group of electrical applications:

First Semester	Credits
EE 127a—Central Stations	3
EE 122—Electric Testing	2
EE 116—Electric Circuits	3
EE 155a—Telephony and Telegraphy	3
Ch. E 4—Applied Electro-chemistry	3
EE 154b—Radio Telegraphy	3
EE 129a—Electric Railways	3
EE 160—Advanced Individual Studies.	
Second Semester	
EE 104—Dynamo Design	2
EE 127b—Central Stations	3
EE 120—High Tension Insulation	3
EE 129b—Electric Railways (continued)	3
EE 137—Power Distribution	3
EE 133—Illumination and Photometry	3
EE 155b—Electric Amplifiers and Oscillators	3
EE 154a—Radio Telegraphy	3
EE 160—Advanced Individual Studies.	

*Commercial Law or Engineering Administration may be substituted.

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 2a	4	Chemistry 2b	4
English 1a	3	English 1b	3
Shop 1, 2, 3	2	Shopwork 4, 5	2
Total	17	Total	17

Physical Educ., see page 503
Military Science, see page 511
Freshman Lectures

SOPHOMORE YEAR

Mathematics 54	4	Mathematics 55	4
Chemistry 14	5	Mechanics 1, 2	5
Physics 51	5	Physics 52	5
Machine Design 1	4	Chem. Eng. 12, 18	4
Total	18	Total	18

Physical Educ., see page 503
Military Science, see page 511

JUNIOR YEAR

Mechanics 3	5	Steam and Gas 4, 25	5
Steam and Gas Engr. 3	3	Chemistry 120	3
Chemistry 120	3	Drawing 3	3
Chem. Engr. 117	2	Chem. Engr. 111	2
Chem. Engr. 119	3	Mechanics 54	2
Electives	3	Electives	4
Total	19	Total	19

Summer Work, Chemical Engineering 114 (Chemical Manufacture), 4 credits.

SENIOR YEAR

Steam and Gas Engr. 26	1	Contracts 101	2
Elect. Engr. 147	3	Chemistry 30	3
Machine Design 5	3	Chem. Engr. 116	2
Chem. Engr. 101a	5	Chem. Engr. 120	2
Chem. Engr. 15, 116	5	Chem. Engr. 122	4
Electives	2	Elect. Engr. 147	3
		Elective	3
Total	19	Total	19

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	4	Chemistry 2	4
English 1a	3	English 1b	3
Shopwork 1, 2, 3 or Top. Engr. 110	2	Shopwork 4, 5 or Top. Engr. 112	2
Total	17	Total	17
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	
Freshman Lectures		Freshman Lectures	

SOPHOMORE YEAR

Mathematics 54	4	Mining 121	2
Physics 51	4	Mathematics 55	4
Chemistry 14	5	Physics 52	4
Geology 9	3	Geology 9	3
Mining 101	3	Mining 122	3
		Drawing 3	3
Total	19	Total	19
Physical Educ., see page 503		Physical Educ., see page 503	
Military Science, see page 511		Military Science, see page 511	

*JUNIOR YEAR

Mechanics 1, 2	5	Mechanics 3	5
		Mechanics 53	2
Major, Minor, Free Electives	14	Major, Minor, Free Electives	12
Total	19	Total	19

*SENIOR YEAR

Major, Minor, Free Electives	18	Major, Minor, Free Electives	18
Total	18	Total	18

*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 146 credits, free electives.

MINING GROUP

Courses in Mining Engineering
Railway Engineering 104
Structural Design, Structural Engineering 10
Thermodynamics, Steam and Gas Engineering 3 and 4
Steam Laboratory, Steam and Gas Engineering 28
Direct Current Machinery, Electrical Engineering 131a
Alternating Current Machinery, Electrical Engineering 131b
Hydraulics 1
Economic Geology, Geology 111
Economics 1a, 1b, 5, 130

METALLURGICAL GROUP

Courses in Metallurgy
Structural Design, Structural Engineering 10
Thermodynamics, Steam and Gas Engineering 3 and 4
Steam Laboratory, Steam and Gas Engineering 27
Alternating Current Machinery, Electrical Engineering 131b
Physical Chemistry, Chemistry 130
Metallography Chemical Engineering 119a
Electric Furnaces, Chemical Engineering 102
Economic Geology, Geology 111
Economics 1a, 1b, 5, 130.

GEOLOGICAL GROUP

Engineering Geology, Geology 9
Structural Geology, Geology 114
Economic Geology, Geology 111
Petrology, Geology 108
Excavation, Mining 101
Mining Methods, Mining 103
Mine Valuations, Mining 104
Mine Administration 109
Stratigraphy, Geology 112
Metamorphic Geology, 115
Lake Superior Geology, Geology 118
Oil Geology, Geology 123

Electives 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, 52, 54, and 55; Physics 1 or 51 and 52, (Electrical Engineers take Physics 53, 54 and 55), Chemistry 1 or 2; Mechanical Drawing 1, 2 and 3; Topographical Engineering 1, 2, 3, and 104, or Machine Design 1; Mechanics 1 and 2; Electrical Engineering 140a and 140b; Chemical Engineering 12, 18, 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 election, 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 little outside preparation) count as one hour of classroom work.

AERONAUTICS

PROFESSORS MAURER, LARSON

1. Aeronautics. I; 2 cr.

2. Aeronautics. II; 2 cr.

*For detailed description of courses given in the College of Letters and Science see Index under the various headings such as chemistry, mathematics, physics, etc.

CHEMICAL ENGINEERING

PROFESSOR KOWALKE; ASSOCIATE PROFESSOR WATTS; ASSISTANT PROFESSORS FAHLBERG*, HOUGEN; INSTRUCTORS RAGATZ, RAMSAY, COLEMAN, ENNOR.

For Undergraduates

4. Applied Electrochemistry. I; 3 cr. Short course for juniors and seniors; not open to chemical engineers. Mr. Watts.

8. Metallography for Mechanical Engineers. II; 1 cr. Mr. Ragatz, Mr. Ennor.

12. Fuel and Gas Analysis. I or II; 2 cr. Prerequisites: Chemistry 2, 11. Mr. Ramsay, Mr. Coleman.

15. Industrial Chemistry. I; 3 cr. Prerequisites: Chemistry 2, 14, Chemistry 120 or 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, Mr. Ramsay.

101b. Advanced Electrochemistry. II; 1 or more cr. Mr. Watts.

102. Electric Furnace. II; 4 cr. Mr. Watts, Mr. Hougen.

106. Batteries. II; 2 cr. Mr. Watts.

111. Chemical Machinery. II; 2 cr. Mr. Kowalke.

113. Gas Manufacture and Distribution. I ; 2 cr. Mr. Kowalke.

114. Chemical Manufacture. I; 4 cr. Prerequisites: Chemistry 2, 14, 120, Chemical Engineering 111. Required of chemical engineers as summer work, elective for others. Mr. Kowalke.

116. Applied Thermal Chemistry. Yr.; 4 cr. Mr. Hougen.

117a. Technical Pyrometry. I; 2 cr. Prerequisites: Chemistry 2, Physics 51, 52. Mr. Ramsay.

117b. Advanced Pyrometry. II; 1 or more cr. Continuation of 117a. Mr. Ramsay.

119a. Metallography. I or II; 3 cr. Prerequisites: Chemistry 2, Physics 1, 2 or 51. Mr. Ragatz, Mr. Ennor.

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*On leave of absence 1923–24.

119b. Advanced Metallography. I or II; cr to be arranged. Mr. Ragatz.

120. Industrial Organic Chemistry. II; 2 cr. Prerequisite: Chemistry 120. Mr. Kowalke.

121. Analysis of Highway Bitumens. II; 2 cr. Mr. Ramsay.

122. Special Problems. II; 4 cr. Chemical Engineering staff.

123. Chemical Factory Apparatus. I; 2 cr. Mr. Hougen.

124. Industrial Microscopy. I; 3 cr. Prerequisite Chemistry 2, 120, Physics 51 or 1. Mr. Hougen.

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; ASSISTANT BONAWITZ.

For Undergraduates and Graduates

101. City Planning and Zoning. I or II; 2 cr. Mr. Smith.

102. Industrial Housing. I or II; 2 cr. No prerequisites. Mr. Smith.

103. Real Estate Planning. II; 2 cr. Prerequisites: City Planning 101 or its equivalent. Suited to needs of civil engineering students and others interested in real estate development. Mr. Smith.

DRAWING

PROFESSOR MILLAR; ASSOCIATE PROFESSOR ORTH (Chairman); INSTRUCTORS BALDWIN, DAUBNER, DOKE, KECK, LIVERMORE, SHIELS, WERRELL, WORSENCROFT.

For Undergraduates

1. Elements of Drawing. I or II; 3 cr. Mr. Orth, Mr. Baldwin, Mr. Daubner, Mr. Doke, Mr. Keck, Mr Livermore, Mr. Werrell, Mr. Worsencroft.

*Students desiring work in planning and planting of public grounds, parks, and home grounds, see courses in Horticulture, College of Agriculture.

2. Elements of Drawing. I or II; 3 cr. Prerequisite: Course 1. Mr. Orth, Mr. Baldwin, Mr. Daubner, Mr. Doke, Mr. Keck, Mr. Livermore, Mr. Werrell, Mr. Worsencroft.

3. Descriptive Geometry. I or II; 3 cr. Prerequisites: Courses 1, 2. Mr. Millar, Mr. Orth, Mr. Shiels, Mr. Daubner.

4. Freehand Lettering. I or II; 1 cr. Prerequisite: Courses 1, 2. Mr. Orth.

5. Elements of Drawing. Yr.; 1 cr. For chemistry students. Mr. Daubner.

7a. Advanced Freehand Lettering. I or II; 1 or 2 cr. Construction and composition of Classic Roman capitals, "lower case" letters, English Gothic, black letter and modern script. Special emphasis given to the choice of lettering styles in advertising design. Prerequisite: Drawing 1. Mr. Baldwin.

7b. Advanced Freehand Lettering. II; 1 or 2 cr. Continuation of Course 7a. Prerequisite: Drawing 7a. Mr. Baldwin.

ECONOMICS

PROFESSORS GILMAN, KIEKHOFER, SCOTT; ASSOCIATE PROFESSOR LESCOHIER; ASSISTANT PROFESSORS GLAESER, JEROME, MILLER, PERLMAN; LECTURER WITTE.

For Undergraduates

1a. Elements of Economics. I or II; 4 cr. Prerequisite: Sophomore standing. Mr. Kiekhofer and staff.

1b. Elements of Economics. I or II; 4 cr. Prerequisite: Economics 1a. Mr. Kiekhofer and staff.

5. Money and Banking. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Scott.

For Undergraduates and Graduates

109. Commercial Law. Yr.; 3 cr. Prerequisite: Senior standing or consent of instructor. Mr. Gilman.

122. Labor Problems. I; 3 cr. Prerequisite: Economics 1b. Mr. Perlman.

123. Labor Legislation. 1; 3 cr. Prerequisite: Economics 1b. Mr. Witte.

130. Statistical Method. I or II; 3 cr. Prerequisite: Economics 1a. Mr. Jerome and staff.

135. Railway Transportation. I or II; 3 cr. Prerequisite: Economics 1b. Mr. Miller and staff.

136. Railway Problems. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 168. Mr. Miller and staff.

137. Corporation Finance. I or II; 3 cr. Prerequisite: Grade of fair in Economics 5. Mr. Gilman and staff.

142. Public Utilities. Yr.; 2 cr. Prerequisite: Economics 1a and junior standing. Mr. Glaeser.

168. Railway Finance. II; 3 cr. Prerequisite: Economics 135. Given in alternate years with Economics 136. (Omitted 1924-25.) Mr. Miller and staff.

171. Employment Management. II; 3 cr. Prerequisite: Economics 11 or a course in labor. Mr. Lescohier.

For other courses in Economics see announcement of the Department of Economics in the College of Letters and Science.

ELECTRICAL ENGINEERING

PROFESSORS BENNETT, JANSKY, ROOD; ASSOCIATE PROFESSORS PRICE, WATSON; ASSISTANT PROFESSORS KELSO, MEYERS; INSTRUCTORS FRENCH, FULLER, KOEHLER, LARSON, LYON, PETERS, RUSCH, SCOTT, STRONG, WISE.

For Undergraduates and Graduates

102. Dynamo Laboratory. Prerequisite: course 141. Mr. Price and laboratory instructors.

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, Mr. Koehler.

120. Insulation and High Tension Testing. II; 3 cr. Mr. Bennett, Mr. Meyers.

122. Electric Testing. I; 2 cr. Prerequisites: Courses 103, 143 or 131. Mr. Wise.

125. Conference. I or II; 2 cr. Open to engineering seniors and graduates. Mr. Jansky, Mr. Bennett.

127. Electric Central Stations. Yr.; 3 cr. Open to engineering seniors and graduates. Mr. Rood.

129a. Electric Railways. I; 3 cr. Open to engineering seniors and graduates. Mr. Rood.

129b. Electric Railways. II; 3 cr. Open to engineering seniors and graduates. Mr. Rood.

130. Direct Current Laboratory. I; 2 cr. For mechanical engineers. Should be accompanied by course 144. Mr. Price and laboratory instructors.

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.

137. Power Distribution. II; 3 cr. Mr. Meyers.

140a. Fundamentals of Electrical Engineering. I or II; 3 cr. Introductory course for sophomore electrical engineers. Prerequisites: Physics 53, Mathematics 54. Mr. Bennett, Mr. Peters, Mr. Strong.

140b. Electrical Engineering Laboratory. I or II; 2 cr. To accompany course 140a. Mr. Price and laboratory instructors.

141. Direct Current Machinery, Construction and Operation. I or II; 4 cr. Mr. Watson.

143a. Alternating Current Machinery. II; 4 cr. Mr. Watson, Mr. Lyon.

143b. Alternating Current Machinery. I; 4 cr. Mr. Price, Mr. Scott.

144. Electrical Machinery. Yr.; 3 cr. Course starts second semester. Primarily for mechanical engineers. Prerequisite: Physics 52. Mr. Kelso.

147. Electrical Machinery. Yr.; 3 cr. Primarily for mining and chemical engineers. Prerequisite: Physics 52. Mr. Jansky and Mr. Meyers.

149. Direct Current Machinery. II; 3 cr. Primarily for civil engineers. Mr. Rood.

150. Direct Current Laboratory. II; 1 cr. To accompany course 149.

154a. Radio Telegraphy. II; 3 cr. Dealing mainly with undamped waves. With laboratory work. Prerequisite: EE 141. Mr. Koehler.

154b. Radio Telegraphy. I; 3 cr. Damped wave telegraphy. With laboratory work. Mr. Peters, Mr. Koehler.

155a. Telephony and Telegraphy. I; 3 cr. Theory of instruments and lines. With laboratory work. Prerequisite: EE 143a. Mr. Koehler.

155b. Electric Amplifiers and Oscillators. II; 3 cr. The properties of amplifier and oscillator circuits and of the characteristics of the trielectrode thermionic amplifiers. Prerequisite: EE 116. Mr. Peters, Mr. Koehler.

Signal Corps Courses. Courses 154a, 154b, 155a, and 155b are required of those electrical engineers who enroll in the signal corps unit of the Reserve Officers' Training Corps which has been established in the University by the War Department. Men who enroll in this signal corps unit, after satisfactorily completing the course and meeting the military requirements may be commissioned in the Officers' Reserve Corps if they so desire.

These courses are open as electives to electrical engineering students and to others who are taking equivalent training along mathematical and physical lines.

160. Advanced Individual Studies. I and II. One or more credits. The object of the course is to facilitate investigative work and to develop the student's initiative. The student is to submit reports on one or more engineering problems requiring analytical investigative work. The study may be of an economic, historical, statistical, theoretical or experimental type. Studies of unusual merit will be accepted as theses and filed in the University Library.

For Graduates

214. Advanced Dynamo Laboratory. I or II; 2 cr. Prerequisites: Courses 112a, 143a, 143b. 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 ADMINISTRATION

ASSOCIATE PROFESSOR HYLAND; ASSISTANT PROFESSOR WOY.

For Undergraduates and Graduates

101. Engineering Administration. 1; 3 cr. Mr. Woy.

102. Power Plant Design. II; 2 cr. Mr. Hyland.

103. Engineering Administration. Continuation of Course 101. II; 3 cr. Mr. Woy.

104. Advanced Individual Studies. I and II; 1 to 5 cr. Open to seniors. Mr. Woy.

ENGINEERING CONTRACTS AND SPECIFICATIONS

PROFESSOR MEAD; INSTRUCTORS KESSLER AND NILES

101. Contracts and Specifications. II; 2 cr.

ENGINEERING ENGLISH AND ENGINEERING JOURNALISM

PROFESSOR VAN HAGAN

1a. Junior Engineering English. I; 1 cr. To supplement the English work of the freshman year. Prerequisite: Junior standing and 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

LECTURERS TIEMANN, GERRY, HUBERT, HUMPHREY, HUNT, KOEHLER, MARKWARDT

1. General Forestry. I; 2 cr. Open to all engineering students. Mr. Tiemann.

102. Wood Technology. II; 2 cr. For juniors, seniors and graduates. Mr. Tiemann, Miss Gerry.

110. Structural Timbers. II; 1 cr. Prerequisite: Mechanics 2 and 3. Mr. Markwardt, Mr. Humphrey, Mr. Hunt, Mr. Koehler.

111. Production and Utilization of Wood. I; 2 cr. Prerequisite: Forestry 1. Mr. Hubert and staff.

HYDRAULIC AND SANITARY ENGINEERING

PROFESSORS MEAD AND CORP; ASSISTANT PROFESSOR WARD;; INSTRUCTORS KESSLER, NILES.

For Undergraduates

1. Elementary Hydraulics. I or II; 3 cr. Prerequisites: Mechanics 1, 2. Mr. Corp, Mr. Ward, Mr. Niles.

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, Mr. Niles.

For Undergraduates and Graduates

102. Testing of Hydraulic Machines. I or II; 2 cr. Prerequisite: Course 1. Mr. Ward, Mr. Kessler.

103. Experimental Hydraulics. I or II; 1 to 5 cr. Prerequisite: Course 1. Mr. Corp, Mr. Ward.

104. Water Power Engineering. I; 3 cr. Prerequisite: Course 1. Mr. Mead, Mr. Kessler.

105. Hydraulic Machinery. II; 2 cr. Prerequisite: Course 1. Mr. Mead, Mr. Kessler.

106. Sewage and Garbage Disposal. I; 1 cr. Mr. Corp.

110. Hydrology. II; 2 cr. Mr. Mead, Mr. Niles.

111. Water Supply. I; 3 cr. Prerequisite: Course 1. Mr. Mead, Mr. Niles.

112. Sewage, 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. Kessler.

113b. Hydraulic Design. II. Continuation of 113a. Prerequisites: Courses 1, 110, 113a. Mr. Mead, Mr. Kessler.

115. Hydraulic Problems. I or II; 1 to 3 cr. Prerequisite: Course 1 or 2. Mr. Corp.

MACHINE DESIGN

ASSOCIATE PROFESSOR HYLAND; ASSISTANT PROFESSOR NEFF; INSTRUCTORS MCNAUL, PUERNER; ASSISTANT KING.

For Undergraduates

1. Mechanism. I or II; 4 cr. Prerequisite: Mechanical Drawing 1, 2. Mr. Puerner, Mr. King.

2. Design Practice. II; 1 cr. Prerequisite: Machine Design 1. Mr. Hyland.

3. Machine Elements. I or II; 4 cr. Primarily for mechanical engineers. Prerequisites: Machine Design 1, Mechanics 1, 2. Mr. Hyland, Mr. McNaul.

4. Advanced Machine Design. I or II; 4 cr. Prerequisite: Machine Design 3. Mr. Hyland, Mr. McNaul.

5. Machine Elements. I or II; 3 cr. Similar in scope to Course 3. For electrical and chemical engineers. Prerequisites: Machine Design 1, Mechanics 1, 2, 3. Mr. Neff, Mr. McNaul.

6. Advanced Machine Design. I or II; 2 cr. Similar in scope to Course 4. For electrical engineers. Prerequisite: Machine Design 5. Mr. Neff.

7. Chemical Machine Design. II; 2 cr. For chemical engineers. Prerequisite: Machine Design 5. Mr. Neff.

8. Patent Office Drawing. I or II; 1 cr. Requirements of U. S. Patent Office. Prerequisites. Mechanical Drawing 1, 2. Mr. Hyland.

12. Machine Testing. I or II; 2 cr. Mr. Puerner, Mr. McNaul.

For Undergraduates and Graduates

109. Design of Special Machines. II; 2 cr. Prerequisite: Course 4 or 6. Mr. McNaul.

110. Logging and Wood Working Machinery. II; 2 cr. Prerequisite: Course 3 or 5. Mr. Hyland.

MECHANICS

PROFESSORS MAURER, WITHEY; ASSOCIATE PROFESSOR KOMMERS; ASSISTANT PROFESSOR ROARK; INSTRUCTORS GLAETTLI, NEUMEISTER, PHILLIPS, SIMONS, WIEPKING.

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: Mechanics 1, enrollment in or completion of Mathematics 55.

3. Mechanics of Materials. I or II; 5 cr. Prerequisites: Mechanics 1, enrollment in or completion of Mathematics 55.

51. Materials of Construction. I; 2 cr. Prerequisite: Enrollment in or completion of Mechanics 3. For civil engineers.

52. Materials of Construction. II; 2 cr. Continuation of 51.

53. Materials of Construction. I or II; 2 cr. For electrical, mechanical and mining engineers. Prerequisite: Enrollment in or completion of Mechanics 3.

54. Materials of Construction. II; 2 cr. For chemical engineers. Prerequisite: Enrollment in or completion of Mechanics 3.

For Undergraduates and Graduates

106. Advanced Mechanics of Materials. II; 2 cr. Prerequisites: Mechanics 2, 3. Mr. Maurer.

107. Advanced Technical Mechanics. I; 2 cr. Prerequisites: Mechanics 1, 2. Mr. Maurer.

108. Advanced Materials Laboratory. II; 2 or more cr. Prequisite: Mechanics 51 or 53. Mr. Withey.

109. Graphics. II; 2 cr. Prerequisites: Mechanics 1, 2, 3. Mr. Kommers.

111. Ordnance. I; 2 cr. For students in Ordnance Corps Unit and others with following prerequisites: Mechanics 1, 2, 3, and enrollment in or completion of 51 or 53; general chemistry. For detailed information concerning this unit see *Regulations of the University of Wisconsin Corps of Cadets*, copies of which may be secured from the Commandant. Mr Roark.

112. Ordnance. II; 2 cr. Continuation of number 111. Mr. Roark.

MINING AND METALLURGY

PROFESSOR MCCAFFERY; ASSISTANT PROFESSORS BARKER, OESTERLE, SHOREY.

For Undergraduates

12. Mine Surveying. II; 2 cr. Prerequisite: T.E. 108 or 110. Mr. Shorey.

THE COURSES IN MINING

For Undergraduates and Graduates

101. Excavation and Tunneling. I; 3 cr. Prerequisites: general chemistry and physics. Mr. Shorey.

103. Mining Methods. Yr.; 3 cr. Prerequisite: Mining 101. Mr. Shorey.

104. Valuation of Mineral Properties. II; 3 cr. Prerequisite: Mining 103. Mr. Shorey.

105. Mine Engineering. Yr.; 3 cr. Prerequisite: Mining 103, Mechanics 1, 2. Mr. Shorey.

106. Mine Plant Design. II; 3 cr. Prerequisites: 101, 103, 104, 105. Mr. Shorey.

107. Ore Dressing and Coal Washing. I; 5 cr. Prerequisites: Mining 103, Geology 6. Mr. Shorey.

108. Milling Plant Design. II; 3 cr. Prerequisite: Mining 105, 107. Mr. Shorey.

109. Mine and Smelter Organization, Administration, and Accounts. II; 3 cr. Lectures, quiz. Mr. McCaffery.

121. Assaying. II; 2 or 3 cr. Prerequisite: Chemistry 2. Mr. Barker.

For Graduates

210. Advanced Ore-Dressing Laboratory. I or II; 2 or more cr. Mr. Shorey.

215. Mill Design. II; 5 cr. Mr. Shorey.

220. Mine Development. I; 5 cr. Mr. Shorey.

THE COURSES IN METALLURGY

For Undergraduates and Graduates

122. Principles of Metallurgy. II; 3 cr. Prerequisite: Chemistry 2. Mr. McCaffery.

Iron and Steel Metallurgy

124. Metallurgy of Iron and Steel. I and II; 3 cr. Prerequisites: General chemistry and physics. Mr. McCaffery.

128. Iron and Steel Laboratory. Yr.; 2 cr. Prerequisite: 124. Mr. McCaffery.

130. Physical Chemistry of the Metals. I; 3 cr. A detailed application of physical chemistry to metallurgical processes. Prerequisites: Mining 122, 124. Mr. Oesterle.

131. Foundry Metallurgy. II; 2 cr. Prerequisite: Mining 124. Mr. McCaffery.

132. Manufacture of Coke. I; 2 cr. Mr. McCaffery.

135. Steel Works Power Plants. I; 3 cr. Prerequisites: Mining 124 and Steam and Gas for Electrical Engineering. Mr. Bennett, Mr. Larson, Mr. McCaffery.

140. Heat Treatment of Soft and Medium Steels. II; 2 cr. Prerequisite: Mining 130. Mr. Oesterle.

For Graduates

225. Metallurgical Laboratory. I or II; 2 or more cr. Mr. McCaffery, Mr. Barker.

231. The Iron Blast Furnace. I; 5 cr. Mr. McCaffery.

232. Converter and Open-Hearth Steel. II; 5 cr. Mr. McCaffery.

Metallurgy of Gold, Silver, Copper, Lead, Zinc, and Minor Metals
For Undergraduates and Graduates

123. Metallurgy of Copper, Lead, and Zinc. I; 3 cr. Prerequisite: Mining 122. Mr. Barker.

125. Metallurgy of Minor Metals. II; 3 cr. Prerequisite: Mining 123. Mr. Barker.

127. Hydrometallurgy of Gold, Silver, Copper, Lead, and Zinc. Yr.; 3 cr. Prerequisite: Mining 123. Mr. Barker.

133. Fire Metallurgy Laboratory, Copper, Lead, and Zinc. Laboratory I; 3 cr. Prerequisite: Mining 123. Mr. Barker.

For Graduates

240. Laboratory Research in Copper, Lead, and Zinc Metallurgy. I; 3 cr. Mr. Barker.

General Mining and Metallurgy

For Undergraduates and Graduates

126. Clay Products Manufacture. I or II; 2 or 3 cr. Mr. Barker.

150. Economic Aspects of Mining. II; 3 cr. For students in economics and commerce, and colleges other than engineering, of junior, senior, or graduate rank. Mr. McCaffery.

Un-Numbered Courses

Western Mine Inspection Trip. Summer work. A six weeks' mine and metallurgy inspection trip through western United States and Canada. Mr. Shorey.

First Aid Training. Given in conjunction with Bureau of Mines experts. No credit. Required. Taken in Junior year.

Mine Rescue Training. Given in conjunction with Bureau of Mines experts. No credit. Required of seniors.

RAILWAY ENGINEERING

PROFESSOR VAN HAGAN; INSTRUCTOR STIVERS

1. Railway Curves. I or II; 2 cr. Prerequisites: Trigonometry, elementary surveying. Mr. Stivers.

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. Prerequisite: Course 2. Mr. Van Hagan and assistants.

For Undergraduates and Graduates

104. Railway Engineering. I; 2 cr. For electrical and mining engineers. Prerequisites: Trigonometry, elementary surveying. Mr. Van Hagan.

105. Engineering Economics. I; 2 cr. Prerequisite: Junior standing. 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. Stivers.

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 L. S. SMITH; ASSISTANT BONAWITZ.

For Undergraduates and Graduates

101. Country Highway Construction and Maintenance. I, II; 1 cr. Designed especially for students desiring a short elective course. Illustrated lectures and theme writing. Mr. Smith.

102. Introduction to Construction and Maintenance. II; 3 cr. As a preparation for this course civil engineers are required to take a course in economic geology. Mr. Smith.

103. Advanced Design and Economics of Road Construction and Maintenance and Highway Transportation. I; 3 cr. Prerequisite: Course 102, or its equivalent. Mr. Smith.

104. Testing Road Materials. II; 3 cr. Includes the testing of macadam stone in highway laboratory and instruction given in the course on analysis of bitumens for highways (Chemical Engineering 121). Mr. Smith.

Note: For course in highway bridges see Structural Engineering 112.

SHOP WORK

ASSISTANT PROFESSOR DABNEY (SUPT.); INSTRUCTORS BRECKEY, CLARE, GOUDE, HITCHCOCK, MALONE, PAYTON, PETERS SCHUMANN; ASSISTANTS CALDWELL, WALD.

1. Elementary Pattern Making. I or II; 1 cr. Mr. Goude, Mr. Sullivan.

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. Malone.

4. Lathe Work in Metals. I or II; 1 cr. Mr. Breckey, Mr. Clare, Mr. Hitchcock, Assistant Wald.

5. Planing and Milling. I or II; 1 cr. Mr. Breckey, Mr. Clare, Mr. Hitchcock, Mr. Wald.

6. Tool Making. I or II; 2 cr. Prerequisites: Courses 4, 5. Mr. Breckey, Mr. Clare, Mr. Hitchcock, Mr. Wald, Mr. Caldwell.

7. General Shop Work. I or II; 2 cr. Prerequisites: Courses 4, 5 and 6. Mr. Breckey, Mr. Hitchcock.

8. Heat Treatment and Metallography. II; 2 cr. (Same as Chem. Engr. 8.) Required of mechanical engineers; not open to chemical engineers. Mr. Dabney, Mr. Fahlberg.

9. Advanced Pattern Making and Foundry Practice. II; 1 cr. Prerequisite: Course 1. Regularly for seniors only. Mr. Payton, Mr. Goude.

10. Industrial Practice. Not less than six weeks of work, performed outside the University, in a shop with a well-

developed system of methods pertaining to the manufacture, building, or making general repairs of machinery, machine parts, or metal products. Application for credit must be made upon a form furnished by the adviser, and accompanied by credentials stating the length of service, kind of work, and any other pertinent information necessary for the granting of this credit by the Mechanical Engineering Course Committee.

12. Manufacturing Methods. I; 1 cr. Administration of course 7 and a study of methods used in local manufacturing plants. Regularly for seniors only. Mr. Dabney, Mr. Hitchcock.

13. Elementary Foundry Practice. I or II; 1 cr. Mr. Goude.

STEAM AND GAS ENGINEERING

PROFESSOR LARSON; ASSISTANT PROFESSORS AAGAARD, SPIETH INSTRUCTORS E. ANDERSON, LONGENECKER, NELSON, ROSE, WILSON.

For Undergraduates

1. Thermodynamics. I; 4 cr. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Aagaard, Mr. Spieth.

2. Thermodynamics. II; 4 cr. Mr. Aagaard, Mr. Spieth.

3. Thermodynamics. I; 3 cr. For electrical, chemical, and mining engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Anderson, Mr. Wilson, Mr. Longenecker.

4. Thermodynamics. II; 3 cr. Continuation of 3. Mr. Anderson, Mr. Wilson, Mr. Longenecker.

7. Survey of Steam Engineering. II; 2 cr. For civil engineers. Prerequisites: Physics 51, 52; Mathematics 54, 55. Mr. Spieth.

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 and II; 3 cr. Prerequisites: Courses 1, 2 or 3, 4 or 7. Mr. Larson.

109. Gas and Gasoline Engines. I or II. Prerequisite: Courses 1, 2, or 3, 4. Mr. Aagaard.

111. Compressed Air. II; 2 cr. Prerequisites: Courses 1, 2 or 3, 4 or 7. Mr. Larson.

Laboratory Courses

For Undergraduates

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; 1 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

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.

STRUCTURAL ENGINEERING

PROFESSORS TURNEAURE, KINNE; INSTRUCTOR WILSON.

For Undergraduates

2. Stresses in Simple Structures. II; 4 cr. Prerequisite: Mechanics 1. Mr. Kinne, Mr. Wilson.

3. Design of Roof Trusses and Plate Girders. I; 3 cr. Prerequisites: Course 2, Mechanics 3. Mr. Kinne, Mr. Wilson.

4. Design of Railway Bridge Trusses. II; 2 cr. Prerequisites: Courses 2, 3. Mr. Kinne, Mr. Wilson.

10. Structural Design. I and 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, Mr. Wilson.

106. Concrete Arches. I; 2 cr. Prerequisites: Mechanics 1, 3, course 2 and concurrent registration in course 105. 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. Kinne, Mr. Wilson.

112. Highway Bridges and Culverts. II; 2 cr. Prerequisites: Courses 2, 3, 4, 105. Mr. Kinne.

TOPOGRAPHIC ENGINEERING

ASSOCIATE PROFESSOR OWEN; INSTRUCTOR BEEBE; ASSISTANT COLLINS.

For Undergraduates

1. Elementary Surveying. I; 2 cr. Mr. Owen.

2. Elementary Surveying. II; 2 cr. Mr. Beebe.

3. Land Surveying. I; 3 cr. Mr. Owen.

For Undergraduates and Graduates

104. Advanced Surveying. II; 3 cr. Continuation of 3. Mr. Owen.

105. Elementary Geodesy. II; 2 or 3 cr. Mr. Owen.

106. Summer Survey Camp. Field work illustrating all courses given in regular session. Four weeks from Friday of examination week, second semester. Prerequisites: Courses 3 and 104, or 108. Mr. Owen, Mr. Beebe, Mr. Collins and others.

107. Advanced Geodesy. I; 2 cr. Continuation of 105. Mr. Owen.

108. Short Course in Surveying. I or II; 3 cr. For mechanical and electrical engineers. Mr. Beebe.

THE COLLEGE OF AGRICULTURE

H. L. Russell, Dean.

General Information

The College of Agricultural 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 administrative 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, and 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 administration, 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 sanitation, art and design, food preparation, dietetics, textiles, sewing, dressmaking, house decoration and institutional economics, practice in the latter being given in the central kitchen and the cafeteria of the University Commons.

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 for Veterinary Science.

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.

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 two farms, the University Farm and the Hill Farm, totaling 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 20,000 bound volumes and 16,000 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 interest. These organizations are for drill in parliamentary practice,

training in debate, as well as for the discusssion 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. The Saddle and Sirloin Club is a student organization of those interested in animal husbandry. The Grafter's Club is for those interested in horticulture. Young women taking agriculture have the Agicultural Women's Association (A. W. A.).

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 Stations 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 experi-

ence 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 three-fold basis. Each department aims:

First, to give instruction to students at the University.

Second, to develop science through investigation and experiment.

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. 88ff.

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 in agriculture and home economics, 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 Physics 61 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.

Courses 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 and a general license to teach other subjects. (See p. 327 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, plant pathology, soils and home economics. The home economics work includes courses in art and design, millinery, food study and cookery, dietetics, research in nutrition, teaching home economics, sociological study of the family and extension work.

Short Course in Agriculture 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 November 12 and closes March 14. 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 one week, 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, 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 one week is designed to give women practical and helpful instruction in the various phases of home economics. The plan of instruction includes lectures and demonstrations in all phases of home management. The courses 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 is held each year during Commencement week. 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 p. 120.

Fellowships and Scholarships

See Index.

Omicron Nu Scholarship

See p. 469.

Loan Fund

See p. 104.

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 degree of Master of Science is conferred upon agricultural or home economics graduates who complete at least one year of the 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.

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Chemistry 1a	5	Chemistry 1b	5
Physics 61 or Botany 1	5*	Botany 1 or Physics 61	5*
Animal Husbandry 1 or Agronomy 1	3*	Agronomy 1 or Animal Husbandry 1	3*
Total	16	Total	16
Military Science, see page 511		Military Science, see page 511	
Physical Educ., see page 503		Physical Educ., see page 503	
Convocation			

Sophomore Year

Chemistry 12 (Quant.)	3	Agr. Chemistry 1 and 2	5
Zoology 3 (L & S)	3	Soils 1	5
Agr. Bacteriology 1	5	Mathematics 71	4†
First Semester Option	3	Second Semester Option	3
Electives	2		
Total	16	Total	17
Military Science, see page 511		Military Science, see page 511	
Physical Educ., see page 503		Physical Educ., see page 503	

Sophomore Year

*Students will elect one of these subjects the first semester of the freshman year and will be required to take the alternative subjects in the second semester.

†Mathematics 51 (5 credits) may be taken instead of Mathematics 71 by students intending to major in Agricultural Engineering. Students electing Mathematics 51 should consult the chairman of the Department of Agricultural Engineering before making this selection.

Junior Year

First Semester	Credits	Second Semester	Credits
Agricultural Economics 1	5	Botany 146 or	
Electives	12	Physiology 3	4‡
		Electives	13
Total	17	Total	17

Senior Year

Major	5	Major	5
Electives	12	Electives	12
Total	17	Total	17

Agricultural Options. The student must choose one course from each of the following groups:

First Semester	Credits	Second Semester	Credits
Agr. Engineering 1	3	Dairy 1	3
Horticulture 1	3	Horticulture 3	3
Poultry 1	3	Economic Entomology 1	3
Veterinary Science 1	3		

If horticulture is chosen the first semester, it cannot be chosen as the optional subject for the second semester.

General Requirements

The total requirements for graduation are 133 credits in addition to military science, convocation, and physical education. The same number of grade points (133) are also required for graduation. See p. 107.

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 of College.

Students of the Long and Middle Courses may take sixteen to eighteen credits each semester, exclusive of military service 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.

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‡Students majoring in the following departments will take the following subjects in the College of Letters and Science instead of Plant Physiology or Animal Physiology.
Agricultural Economics, and dairy Husbandry, Economics 1b.
Agricultural Journalism—Agricultural Economics 25.
Agricultural Engineering—Advanced Mathematics.
Agricultural Education—Psychology 1 and Education 90.

All students (including seniors) must carry at least 16 credits each semester unless excused by the Executive Committee.

Thesis may be required at the option of the several departments. If required it 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. 396.

A major shall consist of a minimum of the elective credits in one department. A major should be chosen at the beginning of the junior year. The major cannot be changed after registration for the first semester of the senior year.

OUTLINE OF THE MIDDLE COURSE IN AGRICULTURE

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Chemistry 1a	5	Chemistry 1b	5
Animal Husbandry 1 or Agronomy 1	3*	Agronomy 1 or Animal Husbandry 1	3*
First Semester Option	3†	Second Semester Option	3†
Electives	2	Elective	2
Total	16	Total	16
Military Science, see page 511		Military Science, see page 511	
Physical Educ., see page 503		Physical Educ., see page 503	
Convocation			

Sophomore Year

Agr. Bacteriology 1	5	Agr. Chemistry 1	3
Soils 3	3	Electives	14
Electives	9		
Total	17	Total	17
Military Science, see page 511		Military Science, see page 511	
Physical Educ., see page 503		Physical Educ., see page 503	

The total requirements for graduation in the Middle Course are 66 credits. Sixty-six grade points are also required. All Middle Course students are required to take convocation and two full years gymnasium work, or gymnasium work and military drill.

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*Students will elect one of these subjects the first semester and the other will be required in the second semester.

†See "Agricultural Options," above.

The student shall select his major subject at the beginning of the second year and shall consult the Assistant Dean 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. 396.) 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

Graduates of the Long Course properly registered in the School of Education presenting credit in the following special work will, upon recommendations of fitness by the professor of agricultural education, receive the University Teachers' Certificate and the University Certificate in Agriculture: Philosophy 1, three credits; Education 41 or 11, three credits; Education 90, two credits; Agricultural Education 1, two credits; Education A, two credits; and Agricultural Education 128, two credits; and Agronomy 140, one credit.

See p. 327, School of Education.

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 of homemaking, 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 homemaking in the vocational and continuation schools of the state. (See outline of course for Vocational Education.)

Students entering with two units of foreign language may continue the language for 8 credits to complete the language requirement. Students entering with no foreign language or beginning a new language to complete the language requirement will be required to take 16 credits in foreign language in the University. The 8 credits of beginning language will be counted as electives. Students entering with four units of one foreign language or five units in two foreign languages may substitute electives for the language requirement of the Course.

Women taking the Course in Home Economics are granted the same privilege 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 Except the Non-Professional Major

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Foreign Language, 2d year	4	Foreign Language, 2d year	4
Chemistry 1a	5	Chemistry 1b	5
Home Economics 2	3	Home Economics 3	3
Home Economics 9	1		
Total	16	Total	15
Convocation		Physical Education	
Physical Education			

Sophomore Year

First Semester	Credits	Second Semester	Credits
Physics 65	3	Physics 65	3
Agricultural Chemistry 3	5	Agricultural Bacteriology 4	5
Physiology 1	4	Home Economics 50	3
Home Economics 5	2	Electives	4
Electives 2	2		
Total	15	Total	15
Physical Education		Physical Education	

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 25 credits nor more than 32 credits in strictly home economics subjects inclusive of the thesis taken during the junior and senior years. Home Economics 109 and teachers courses 90 and 124 are counted as education and not as technical home economics.

Major in General Course

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 10 and 11	4	Home Economics 8 and 18	4
Home Economics 7 and 17	4	Home Economics 6 and 16	4
Home Economics 4	3	Home Economics 11	2
Electives	4	Electives	5
Total	15	Total	15

Senior Year

Home Economics 110	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 (30–32 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 schools or vocational schools; Teachers certificate requirements: Philosophy—psychology; **Education**—educational technique, principles of education, humanics or mental development, or educational psychology, Home Economics teachers course, and Education A (directed teaching) to make a total of 15 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: Speech—extempore speaking; **Agricultural Journalism**—elementary and advanced.

If the student elects the food major the following outline will be followed:

Major in Food and Nutrition

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6 and 16	4
Home Economics 7 and 17	4	Electives, in any college	11
Electives, in any college	8		
Total	15	Total	15

Senior Year

Hospital Dietitian

Home Economics 110	4	Home Economics 109	4
Home Economics 125	3	Thesis or 101 or 102	2
Thesis, or 101, or 102	2	Electives (Home Ec.)*	2
Electives (Home Ec.)*	2	Electives**	7
Electives**	4		
Total	15	Total	15

Senior Year

Institutional Management[1] ***

Home Economics 110	4	Home Economics 109	4
Home Economics 122	2	Home Economics 127	2
Home Economics 132	2	Home Economics 133	2
Thesis or 101, or 102	2	Thesis or 101 or 102	2
Electives**	6	Electives**	6
Total	16	Total	16

Group Electives (in addition to requirements of food major), (35 free electives).

A. Instructor in college or in high schools: See requirements for teachers certificate, page 294.

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. Nursing Major. 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 Memorial Hospital, the University Infirmary, and local and state hospitals. To fulfill the requirements 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.)

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*May elect Home Economics 101, 102, 122, 133 subject to 40 credit rule.

**L. & S. electives.

***In junior year, second semester, (Institutional Management Major) take Home Economics 22 for 2 credits. Senior year may elect Home Economics 125 for 3 credits.

[1]Requires 124 credits for graduation.

D. 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.

E. 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.

F. 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.

Major in Textiles

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 7 and 17..	4	Home Economics 8 and 18...	4
Home Economics 10 and 11.	4	Home Economics 11.....	2
Electives, in any college....	7	Electives, in any college.....	9
Total.....	15	Total.....	15

Senior Year

Home Economics 110.....	4	Home Economics 109.....	4
Home Economics Electives..	3*	Home Economics Electives..	3
Thesis	2	Thesis	2
Electives, in any college....	6	Electives, in any college.....	6
Total.....	15	Total.....	15

Group electives (33 free electives):

A. Instructor in high or vocational schools: Philosophy—psychology; **Education**—Educational technique, principles of education, humanics or mental development or educational psychology, Home Economics teachers course, and Education A (directed

*Six credits must be elected from the following courses: Home Economics 20, 32, 96, 97, 101, 102, 103, 104.

teaching) to make a total of 15 credits; **Speech**—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; **Philosophy**—principles of advertising; **Speech**—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.

Major in Applied Bacteriology

Junior Year

First Semester	Credits	Second Semester	Credits
Home Economics 4	3	Home Economics 6 and 16	4
Home Economics 7 and 17	4	Agricultural Bacteriology*	7
Zoology 111	3	Electives†	5
Elective†	6		
Total	16	Total	16

Senior Year

Home Economics 110	4	Home Economics 109	4
Chemistry 113	1	Electives	9
Thesis	2	Thesis	2
Electives†	9		
Total	15	Total	15

Vocational Education Major in Homemaking (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 homemaking in the

‡Must be taken in excess of 120 credits for graduation.

*Two of the following courses are required: dairy bacteriology, bacteriology technique, food bacteriology, medical bacteriology. A total of twenty elective credits in bacteriology is required for the major.—See Home Economics Circular.

†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.

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 homemaking would find it wise to elect the beginning course 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 homemaking 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 during vacation periods.

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 10 and 11	4	Home Economics 11	2
Home Economics 7 and 17	4	Home Economics 6 and 16	4
Home Economics 72	2	Home Economics 8	2
Home Economics 4	3	Education	3
Electives	3	Electives	4
Total	16	Total	15

Senior Year

First Semester	Credits	Second Semester	Credits
Home Economics 110	4	Home Economics 109	4
Home Economics 96	2	Home Economics electives*	2
Electives†	8	Education A	2
Home Economics electives*	2	Home Economics 90	2
		Electives†	5
Total	16	Total	15

Thesis

All candidates for a degree in Home Economics from the University except those taking the vocational education major in homemaking, 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.

NON-PROFESSIONAL MAJOR

This new course is planned for students who do not wish to be trained for professional home economics positions, and therefore is less severely technical and allows a more liberal choice of electives. Science requirements and required credits in home economics have both been greatly reduced, but on the other hand, a student may elect much more freely within the department after she has taken certain fundamental home economics subjects.

The same number of credits is required in the non-professional curriculum as for the Bachelor of Arts degree. Students are expected to secure 14 to 16 credits per semester, making an average of 30 credits per year; 120 credits for the course and 120 grade points also are required for graduation. In addition students are

†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.

*Choose Home Economics 20, (costume model), 32, (clothing for children), 47 (care and feeding of children) or 92, (hand and machine sewing for teachers), or 97, (advanced costume design), 105, (experimental cookery), 125, (advanced dietetics).

required to take physical training during the first two years (unless excused by the University Clinic) and to attend freshman convocation.

Required Studies

a. *English:* Eight credits, as follows: Six credits in composition (three credits per semester for two semesters) to be taken in the first year of residence; two credits in literature, to be taken normally in the sophomore year.

b. *Foreign Language:* Eight credits beyond beginning course to be taken as soon as possible after entrance. The language requirements in the non-professional and professional curricula are identical.

c. *Science:* Fourteen to sixteen credits, as follows: Five credits in general chemistry (course 1a) to be taken during the first semester in the university; nine to eleven credits to be chosen from *two* of the following courses: Chemistry 1b (qualitative analysis), 5 credits; Physics 65, 6 credits; Physiology 1a (human anatomy and physiology), 4 credits; Agricultural Chemistry 3* (household), 5 credits; and Agricultural Bacteriology 4 (household), 5 credits.

d. *Letters and Science Elective Requirement:* A minimum of 10 credits must be elected in the College of Letters and Science.

e. *Major Study:* Fourteen credits, as follows: Home Economics 3 (introduction to food study,) 3 credits; Home Economics 5 (introduction to textile study), 3 credits; Home Economics 7-17 (house architecture and sanitation), 4 credits; Home Economics 110 (household administration), 4 credits.

The following courses are also required: Home Economics 2 (art and design), 3 credits; Home Economics 9 (introduction to home economics), 1 credit, and Home Economics 109 (humanics), 4 credits.

These are general courses in art and on the family which are not counted in either the minimum or maximum credits for the major but are included in the 120 credits required for graduation.

Elective Studies

From 48 to 58 credits may be chosen by the student in addition to the 10 credits which she is required to elect in the College of

*A student may not elect this course unless its prerequisite, 10 credits of general chemistry, is fulfilled.

Letters and Science. Twenty-six of these credits may be elected in home economics subjects, making a total, with the required subjects, of not more than forty credits within the department.

The student may elect any major in L. & S. in addition to her minimum requirements in the home economics major.

Non-Professional Curriculum

Freshman Year

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
Language, 2d year	4	Language, 2d year	4
Chemistry 1a	5	Home Economics 3 (Introd. to Food Study)	3
Home Economics 9 (Introd. to Home Econ.)	1	Electives	5
Home Economics 2 (Art and Design)	3	Physical Education	
Convocation			
Physical Education			
Total	16	Total	15

Sophomore Year

English 33, (English Literature)	2	Electives	15
Home Economics 5 (Introd. to Textile Study)	3	Physical Education	
Electives	10		
Physical Education			
Total	15	Total	15

Junior Year

Home Economics 7-17 (Architecture and Sanitation)	4	Electives	15
Electives	11		
Total	15	Total	15

Senior Year

Home Economics 110 (Household Admin.)	4	Home Economics 109 (Humanics)	4
Electives	11	Electives	11
Total	15	Total	15

Minors in Home Economics

A minor in Home Economics is not less than 10 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, or 40 and 4, and other related courses to make 15 to 20 credits.

(2) The teaching minor in textiles must include Home Economics 2, 5, 10, 11, 90, and other related courses to complete 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 1b, 70, and 8 and 18.

Minors in Related Subjects

(1) A minor in sociology is recommended for those who are majoring in food or in textiles looking forward to doing welfare work in communities. It should include Economics 1a, and two courses from each of the following groups to make a total of 15 credits:

Group A—Economics 4, 139, 140, and 170.

Group B—Economics 46, 141, 147, and 161.

(2) For a minor in agriculture it is suggested that ten credits (the minimum number allowed) be chosen from Agronomy 1, Horticulture 1, Dairy 1, Agricultural Engineering 1, Animal Husbandry 1, Economic Entomology 1, Veterinary Science 1, and Plant Pathology 5.

(3) The minimum requirements for the minors in the various additional subjects may be found under the School of Education, p. 330.

Advanced Degrees

The degree, Master of Science, is conferred upon candidates whose undergraduate work corresponds to that now leading to the degree, Bachelor of Science, as conferred by the University

of Wisconsin. This degree may also be conferred upon holders of the B.A. degree who have pursued advanced work in science.

Candidacy for the above degree is normally based upon resident study at the University. For exceptions consult the Graduate School Bulletin.

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 as a minimum for each semester assigned graduate work carrying from 9 to 12 credits. At least one-half of this work must lie in a single department. A thesis may be required of candidates for the Master's degree. The undergraduate preparation of the candidate must be sufficient to satisfy the instructor that the advanced work may be undertaken profitably. 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.

Candidates for the Master's degree majoring in home economics may elect as their major study foods, textiles, or general course in home economics education.

Graduate Food Major

The following home economics and related subjects are suggested for the food major: (nutrition major) Home Economics 101, 102, 109, 110, 122, 125; (institutional major) 109, 110, 122, 127, 132,* 133,* 134,* 222.

In addition Agricultural Chemistry 122, Agricultural Bacteriology 125, and the following courses in medicine: Anatomy 110, Physiology 105, and Physiological Chemistry 104–117 may be selected on the advice of the major professor in nutrition, and the Dean of the Graduate School.

Graduate Textile Major

The following home economics and related subjects are suggested for the textile major: Home Economics 101, 102, 103, 104, 110.

Additional courses in botany, chemistry, history, economics

*Do not count for graduate credit.

may be selected on the advice of the major professor and the Dean of the Graduate School.

Graduate General Major—Home Economics Education

For those who wish to select courses leading to a Master's degree majoring in more than one branch of home economics training, the selection of home economics and related courses should be made in both the food and the textile side, and advanced courses in education subject to the approval of the Director of the Course in Home Economics, the course in education and the Dean of the Graduate School.

Requirements for Minor in Home Economics Applying Toward the Degree of Doctor of Philosophy

Candidates for the degree of Doctor of Philosophy whose major study lies in another department of the University may choose as the one minor study, courses in home economics in the general subject of foods, of textiles, or of housing. The election of studies in this department which shall constitute a minor subject will be determined in conference with the Director of the Course of Home Economics and must meet with the approval of the Graduate Committee. For data as to major studies see Bulletin of the Graduate School.

Requirements for State Teachers Certificate

See p. 318.

Students desiring to qualify for the University Teachers Certificate will find it an advantage to select an additional subject in which they may qualify under the head of a minor, so that when they are placed in small high schools they will be equipped to teach not only their major subject of home economics, but also a minor subject. A suggested list of minors includes mathematics, English, modern language, history, Latin, physiology, physics, chemistry, botany, and biology. The selection of a minor should be made as early in the course as possible so that the free electives may be utilized to best advantage.

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 and 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); ASSOCIATE PROFESSOR WRIGHT; INSTRUCTORS BACHMANN, FRAZIER; ASSISTANTS HAYNES, STEVENS; RESEARCH ASSISTANTS CARROLL, STILES; FELLOW, MISS FULTON.

The courses are planned to meet the needs of (1) students who desire to obtain an idea of the general relations of microorganisms to natural processes; (2) students intending to devote themselves to the study of dairy husbandry soils, veterinary medicine, or foods; (3) students wishing to prepare themselves for instructional or research work in general or applied bacteriology.

For Undergraduates

1. General Survey. I; 5 cr. Required of all agricultural students. Prerequisite: Chemistry 1a. Mr. Hastings.

2. General Survey. II; 3 cr. For students in the Course in Chemistry. Prerequisites: Chemistry 1a and 1b. Mr. Wright.

4. General Survey. II; 5 cr. For students in home economics. Prerequisite: Chemistry 1a. Mr. Frost, Miss Bachmann.

100. Thesis. Yr.; 2 cr. Prerequisites: Courses 1, 2, or 4 and 124 and 121, 123, or 125.

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. Advanced 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.

130. Determinative Bacteriology. I and II; 2 or more cr Prerequisite: Course 1, 2, or 4. Mr. Frost, Miss Bachmann.

For Graduates

230. Research. Yr.; 2 or more cr. Prerequisites: Course 1, 2 or 4, 124, and 121, 123, 125, or 130.

231. Seminary. Yr.; 1 cr. For major and graduate students.

AGRICULTURAL CHEMISTRY

Emeritus PROFESSOR BABCOCK; PROFESSORS HART (CHAIRMAN), STEENBOCK; ASSOCIATE PROFESSORS PETERSON, TOTTINGHAM; LECTURER STROWD; INSTRUCTORS HOPPERT, MRS. NELSON, LEPKOVSKY, JONES; ASSISTANTS BLACK, ELVEHJEM, PEDERSON, REINHOLD, OTTERSON, STEVENS, LEVITZ, DICKSON, SCHMIDT; FELLOWS LINK, NELSON; SCHOLAR ELMSLIE.

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 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 and bacteriology are desired prerequisites. 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. Required of all agricultural students. Prerequisite: Chemistry 1a, 1b, or concurrent registration in 1b. Mr. Hart.

2. Agricultural Analysis. II; 2 cr. Required of all Long Course students. Prerequisites: Chemistry 1 and 12. Mr. Tottingham.

3. Household Chemistry. I; 5 cr. Required of all home economics students. Prerequisites: Chemistry 1a, 1b. Mr. Peterson.

100. Thesis. Yr.; 2 cr. May be taken in plant, animal, fermentation, or dairy chemistry. Mr. Hart, Mr. Peterson, Mr. Steenbock, Mr. Tottingham.

For Undergraduates and Graduates

120. Plant Chemistry. II; 2 or 5 cr. Prerequisites: Chemistry 1a, 1b, 120. Mr. Tottingham.

121. Dairy Chemistry. I; 2 or 5 cr. Prerequisites: Chemistry 1, 12, and 120. Mr. Hart.

122. Animal Chemistry. I; 2 or 5 cr. Prerequisites: Chemistry 1, 12 and 120. Mr. Steenbock.

123. Advanced Household Chemistry. II; 3 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3. Mr. Peterson.

124. Advanced Bio-Chemistry. I and II; cr to be arranged. Prerequisites: Chemistry 1, 12, and 120. Mr. Hart, Mr. Steenbock, Mr. Tottingham, Mr. Peterson.

For Graduates

230. Plant Nutrition. Yr.; cr. to be arranged. Prerequisite: Agricultural Chemistry 120. Mr. Tottingham.

231. Animal Nutrition. Yr.; cr. to be arranged. Prerequisite: Agricultural Chemistry 122. Mr. Hart, Mr. Steenbock.

232. Advanced Dairy Chemistry. Yr.; cr. to be arranged. Prerequisite: Agricultural Chemistry 121. Mr. Hart.

233. Seminary. Yr.; 1 cr. Mr. Hart, Mr. Steenbock.

AGRICULTURAL ECONOMICS

PROFESSORS HIBBARD (CHAIRMAN), ELY, MACKLIN; ASSOCIATE PROFESSORS KOLB, MCNALL; ASSISTANT PROFESSOR DONALD; LECTURERS RILEY, TETREAU; ASSISTANTS FETROW, JOHNSON, THOMPSEN; FELLOW, JOHNSON; SCHOLAR, WOOD.

The courses in agricultural economics are intended to give the students a knowledge of the economic principles which relate to the production of 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, 14, 128, and 152 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, 109, 130, 135, 136, 181, and 182 in the Department of Economics adapted to their needs.

Students cannot receive credit for both Agricultural Economics 1 and Economics 1a. Agricultural Economics 1 may be followed by Economics 1b.

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 229 and 240. Such students should elect courses in the Department of Economics to round out their work. Courses 1b, 8a, 8b, 46, 135, 122, 123, 145, 201, 202, 220, 221, 222, 223, 226, 250, and others are available for this purpose. See also Summer Session Bulletin.

For Undergraduates

1. Principles of Agricultural Economics. I; 5 cr. Required of all agricultural students. Mr. Hibbard and staff.

8. Farm Records and Accounts. I and II; 2 cr. Mr. McNall.

10. Farm Organization and Management. II; 3 cr. Prerequisite: Course 8. Mr. McNall.

14. Farm Business Practice. II; 3 cr. Mr. Riley.

25. Rural Life. II; 3 cr. Prerequisite: Sophomore standing. Mr. Kolb.

100. Thesis. Yr.; 2 cr. Mr. Hibbard, Mr. Kolb, Mr. Macklin, Mr. McNall.

For Undergraduates and Graduates

128. Marketing Farm Products. II; 3 cr. Prerequisite: Course 1. Open to Middle Course sophomores. Mr. Macklin.

135. Farm Cost Accounting. II; 2 cr. Prerequisite: Course 8, Mr. McNall.

151. Seminary in Country Life. II; credit to be arranged. Mr. Tetreau.

152. Farmer Movements. I; 2 cr. Prerequisite: Course 1. Mr. Hibbard.

193. Agricultural Credit. II; 2 cr. Mr. Hibbard.

For Graduates

225. Seminary in Rural Social Organization. II; 2 cr. Mr. Kolb.

226. Land Problems. Yr.; 2 cr. Mr. Ely, Mr. Hibbard.

228. Seminary in Marketing. II; 2 cr. Prerequisite. Course 128 or concurrent registration therein. Mr. Macklin.

229. Advanced Agricultural Economics. Yr.; 2 cr. Recent works in English and German, and French will be used. Mr. Hibbard.

240. Research. Yr.; credit to be arranged. Cooperation and marketing. Mr. Macklin.

Farm surveys and financial accounts in their relation to farm management. Mr. McNall.

Cost accounting and its relation to farm management. Mr. McNall.

History of agricultural production, land problems and farm credit. Mr. Hibbard.

AGRICULTURAL EDUCATION

PROFESSORS HATCH, JAMES (CHAIRMAN); ASSOCIATE PROFESSORS BEWICK, MORTIMER; ASSISTANT PROFESSORS TIFFANY, SASMAN.

The courses in agricultural education are for students who expect to teach agriculture in college, normal schools, high schools, or vocational schools; to serve as principal of schools in rural communities, or to engage in agricultural extension as a county agent or extension specialist.

For Undergraduates

A. Educational Practice. I and II; 2 cr. Mr. Mortimer.

1. Rural Education. II; 2 cr. Mr. James.

5. Junior Extension. I; 2 cr. Mr. Bewick and assistants.

100. Thesis. Yr.; 2 cr. Mr. Hatch, Mr. James, Mr. Tiffany.

For Undergraduates and Graduates

103. Seminary in Agricultural Education. Yr.; credit to be arranged. Mr. James, Mr. Tiffany.

110. Training Course for County Agents. II; 2 cr. Open only to seniors and graduate students. Mr. Hatch.

128. Teaching of Agriculture in High Schools. II, 2 cr. Prerequisite: Course 1 or equivalent and senior standing. Mr. Tiffany.

140. The Teaching of Plant Production. (Agronomy 140). I and II; 1 cr. Prerequisite: Course 1 and Agronomy 1 and senior standing. Mr. Mortimer. Must be taken with Education A.

200. Special Problems. (Research). Credit to be arranged. Mr. Hatch, Mr. James, Mr. Tiffany.

AGRICULTURAL ENGINEERING

PROFESSORS E. R. JONES (CHAIRMAN), SWENEHART; ASSOCIATE PROFESSOR DUFFEE; ASSISTANT PROFESSORS ROWLANDS, ZEASMAN; INSTRUCTOR FISH; ASSISTANTS ARBUTHNOT, MEACHAM, BROWN.

The department of agricultural engineering has unusual facilities for giving practical work to students. Different types of tractors, engines, machinery, tools, and farm building equipment are loaned to the department by manufacturers each year for use in the lecture room, laboratory, and field. The university marsh offers an excellent drainage laboratory. Students may generalize or specialize in farm machinery, power machinery, farm buildings, land clearing, or land drainage.

Students desiring technical training for the rapidly growing field of agricultural engineering research are required to elect mathematics early in the course as a foundation for mechanics.

For Undergraduates

1. Land Surveying and Drainage. I; 3 cr. Optional subject for agricultural students. Mr. Jones.

2. Farm Structures. I; 3 cr. Mr. Fish.

3. Gas Engines. I and II; 3 cr. Mr. Duffee, Mr. Palmer.

4. Concrete Construction. II; 2 cr. Given 1924-25 and alternate years thereafter. Mr. Fish.

5. Farm Field Machinery. II; 3 cr. Mr. Duffee and assistants.

8. Domestic Engineering. I; 2 cr. Given 1923-24 and alternate years thereafter. Mr. Fish.

100. Thesis. I and II; 2 cr. Mr. Jones and staff.

For Undergraduates and Graduates

101. Advanced Gas Engines and Farm Tractors. II; 3 cr. Prerequisite: Course 3. Mr. Duffee.

102. Drainage Design. II; 2 cr. Prerequisite: Course 1. Mr. Jones.

105. Belt and Tractor Machinery. II; 2 cr. Prerequisites: Courses 5 and 101 or concurrent registration. Mr. Duffee.

120. Research. I and II; credit to be arranged. Mr. Jones and staff.

Electives in the College of Agriculture given in the College of Engineering

7. Country Roads. I and II; 1 cr. Mr. Smith.

13. General Carpentry. I and II; 1 cr. Mr. Sullivan.

14. General Forge and Bench Work. I and II; 1 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. Prerequisite: Course 1. Mr. Corp.

AGRICULTURAL JOURNALISM

PROFESSOR HOPKINS (CHAIRMAN); ASSOCIATE PROFESSOR SUMNER; INSTRUCTOR LANGDON; ASSISTANT PLATTEN; FELLOW AMMON.

The ability to write simple, understandable English is invaluable to the teacher, extension worker, county and home demonstration worker, and farmer. To render the greatest service the technically trained worker must use the printed page. Selling and advertising are important in the neglected half of

farming—the business side. More and more farmers are coming to appreciate the need of salesmanship, sales letter writing, effective classified and display advertisements, and systematic sales campaigns.

Primarily for Undergraduates

1. Writing Farm Stories. I and II; 3 cr. Prerequisite: Junior standing. Mr. Sumner.

2. Practice in Editing. I and II; 1 cr. Mr. Sumner.

3. Agricultural Advertising. I and II; 3 cr. Prerequisite: Junior standing. Mr. Sumner.

8. Writing Home Stories. 1; 3 cr. Prerequisite: Sophomore standing. Miss Langdon.

For Undergraduates and Graduates

100. Thesis. Yr.; 2 cr. Mr. Hopkins.

103. Agricultural Publicity Methods. II; 2 cr. Prerequisite: Agricultural Journalism 1 or 8. Mr. Hopkins.

104. The History of Farm Papers. II; 1 cr. Prerequisite: Agricultural Journalism 1 or 8. Mr. Sumner.

105. Writing and Editing Farm Bulletins. II; 2 cr. Prerequisite: Senior standing. Mr. Sumner.

106. Advertising Survey for Home Economics. II; 2 cr. Prerequisite: Junior standing. Mr. Sumner.

111. Writing Farm and Home Features. II; 2 cr. Prerequisite: Agricultural Journalism 1 or 8. Mr. Sumner.

140. Methods and Problems. I and II. cr. to be arranged. Prerequisite: Agricultural Journalism, 1, 3, or 8. Mr. Hopkins, Mr. Sumner, Miss Langdon.

AGRONOMY

PROFESSORS R. A. MOORE (CHAIRMAN), DELWICHE, GRABER; ASSOCIATE PROFESSORS LEITH, MORTIMER, WRIGHT; ASSISTANT PROFESSORS BRIGGS, STONE; 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.

Through a joint relationship agreement between the agron-

omy and related departments, graduate students are provided with adequate facilities for qualifying for higher degrees.

For Undergraduates

1. General Farm Crops. I and II; 3 cr. Required of all agricultural students. Mr. Mortimer.

2. Forage Crops. II; 3 or 5 cr. Prerequisite for the laboratory work: Course 1. (Laboratory omitted 1922-23). Mr. Moore, Mr. Graber.

3. Sugar and Fiber Crops. I; 2 cr. Mr. Wright, Mr. Albertz.

100. Thesis. Yr.; 2 cr. Mr. Moore and staff.

For Undergraduates and Graduates

101. Research and Topical Work. Yr.; credit to be arranged. Offered at Madison and the branch experiment station. Mr. Moore and staff.

102. Grasses and Pastures. I; 2 cr. Prerequisite: Course 1. Mr. Mortimer.

104. Cereals. I; 3 cr. Prerequisite: Course 1. Mr. Leith.

120. Seed and Weed 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 course 1. Mr. Leith.

131. Seminary. Yr.; 1 cr. Prerequisites: Agronomy 1. Botany 1. Mr. Moore and staff.

140. The Teaching of Plant Husbandry. I and II; 1 cr. Prerequisite: Senior standing and concurrent registration in Ag. Educ. A. Mr. Mortimer.

201. Research. Yr.; Cr. to be arranged. Mr. Moore and staff.

ANIMAL HUSBANDRY

Emeritus PROFESSOR HENRY; PROFESSORS FULLER, HUMPHREY (CHAIRMAN), MORRISON, MURRAY; ASSOCIATE PROFESSOR HULCE; ASSISTANT PROFESSORS FARGO, KLEINHEINZ; INSTRUCTORS BRANT, COLLENTINE, CRAMER, HARRIS, SIMS; ASSISTANT LATHROP.

For Undergraduates

1. Elementary Livestock Judging. I and II; 3 cr. Required of all agricultural students. Mr. Sims.

2. Livestock Management. I and II; 2 cr. Mr. Fuller, Mr. Hulce, Mr. Fargo, Mr. Kleinheinz.

100. Thesis. Yr.; 2 cr. Mr. Humphrey and staff.

For Undergraduates and Graduates

124. Animal Breeding. II; 2 cr. Prerequisite: Course 1. Required of students majoring in animal husbandry. Mr. Fargo.

126. Livestock Feeding. I and II; 4 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. Fargo, Mr. Morrison.

129. Sheep Production. I; 2 cr. Establishment of flocks, breeds, judging, feeding for market and fitting for shows and sales. Prerequisites: Courses 1 and 2. Mr. Kleinheinz.

130. Swine Production. I; 3 cr. History of breeds, judging, feeding and marketing. Prerequisites: Courses: 1, 2 and 126. Mr. Fargo.

131. Horse Production. I; 2 cr. A study of horses, including breeds, breeding, pedigrees, feeding, judging. Prerequisites: Courses 1 and 2. Mr. Fuller.

132. Beef Cattle Production. II; 2 cr. A study of beef production, including breeds, pedigrees, judging, pure bred cattle breeding, and commercial feeding. Prerequisites: Courses 1 and 2. Mr. Fuller.

133. Dairy Cattle and Milk Production. II; 3 cr. Judging, breeding and feeding in relation to dairy type and milk production. Prerequisites: Courses 1 and 2. Mr. Hulce.

134. Special Problems. Yr.; cr. to be arranged. Consent of instructor required. Mr. Fuller and staff.

135. Animal Husbandry Seminary. Yr.; 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. Humphrey.

For Graduates

230. Research. Yr.; cr. to be arranged. For graduates and students majoring in animal husbandry. Prerequisites: Courses 1, 2, 126. Mr. Morrison and staff.

DAIRY HUSBANDRY

PROFESSOR FARRINGTON (CHAIRMAN); ASSOCIATE PROFESSOR SAMMIS; ASSISTANT PROFESSOR SOMMER; INSTRUCTOR THOMSEN; FELLOW, ROYER.

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, city milk and ice cream plants. Students intending to major in this department should elect courses 2, 3, and 4 at the beginning of the junior year.

For Undergraduates

1. General Farm Dairying. II; 3 cr. Optional subject. Mr. Farrington, Mr. Thomsen.

2. Dairy Technology. I; 1 or 3 cr. Prerequisite: Course 1. Mr. Farrington, Mr. Sommer.

3. The Operation and Management of Dairy Manufacturing Plants. I and II or Yr.; 3 cr. Prerequisite: Course 1. Mr. Farrington, Mr. Thomsen.

4. Cheese Factory Operation and Management. I and II or Yr.; 3 cr. Prerequisite: Course 1. Mr. Sammis and assistants.

5. City Milk Supply and Ice Cream Making. II; 3 cr. Prerequisite: Course 2. Mr. Sommer.

100. Thesis. Yr.; 2 cr. Prerequisites: Courses 2 and 3, 4 or 5. Mr. Farrington and staff.

For Undergraduates and Graduates

102. Dairy Practice. I and II; 1 cr. for each forty-eight hours of work, with a maximum of 4 credits. Prerequisite: Course 1. Mr. Farrington.

120. Advanced Market Milk Problems. I and II or Yr.; 1 to 3 cr. Prerequisites: Courses 2 and 5. Mr. Sommer.

121. Advanced Dairy Manufacturing Problems. I and II or Yr.; 1 to 3 cr. Prerequisites: Courses 2 and 3. Mr. Farrington.

122. Advanced Cheese Making and Curing. I and II or Yr.; 1 to 3 cr. Prerequisite: Course 4. Mr. Sammis.

123. Seminary. 1 and II or Yr.; 1 cr. For advanced and graduate students. Mr. Sommer.

For Graduates

230. Research. Cr. to be arranged. Students who have had suitable preparation may conduct research work on some definite problem in dairy husbandry. Mr. Farrington and staff.

ECONOMIC ENTOMOLOGY

PROFESSOR WILSON (CHAIRMAN); ASSISTANT PROFESSOR FLUKE; INSTRUCTORS GRANOVSKY, MILUM, WHITEHEAD.

The courses provided in this department are designed primarily to meet the needs of students specializing in other departments. Special courses of study are provided for students who desire to specialize in entomology, but special students are expected to be able to do more or less original research work upon their own initiative.

For Undergraduates

1. Farm Insects. II; 3 cr. Optional subject. Mr. Fluke.

10. Elementary Beekeeping. I; 2 cr. Mr. Wilson, Mr. Milum.

100. Thesis. I and II; 2 cr. For advanced and graduate students specializing in entomology. Mr. Wilson.

For Undergraduates and Graduates

103. Orchard Insects. I; 2 cr. Prerequisite: Course 1 or Zoology 3. (Given in 1924-25 and in alternate years.) Mr. Fluke.

105. Field Crop and Garden Insects. I; 2 cr. Prerequisite: Course 1 or Zoology 3. (Given 1923-24 and alternate years.) Mr. Fluke.

110. Commercial Honey Production. II; 2 or 5 cr. A continuation of course 10. Mr. Wilson, Mr. Milum.

115. Seminary. I and II; 1 cr. For advanced and graduate students. Mr. Wilson.

120. Research Work. I and II; credit to be arranged. Mr. Wilson, Mr. Fluke.

GENETICS

PROFESSOR COLE (CHAIRMAN)††; ASSISTANT PROFESSOR BRINK (ACTING CHAIRMAN); ASSISTANTS ABEGG, HILL, RODOLFO, SAUNDERS, STEELE, VAN LONE; FELLOW OWEN.

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

100. Thesis. Yr.; 2 cr. Mr. Cole, Mr. Brink.

For Undergraduates and Graduates

101. Principles of Genetics. I; 3 cr. Prerequisite: A course in biology. Mr. Brink.

102. Elementary Laboratory. I; 1 or 2 cr. Prerequisite: Course 101 or concurrent registration therein. Mr. Brink, Mr. Steele.

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††On leave of absence 1923–24. Mr. Cole will be acting as Chief of the Division of Animal Husbandry of the United States Department of Agriculture, but by special arrangement will be able to be in Madison at intervals and to supervise the work of a limited number of graduate students majoring in animal genetics.

104. Plant Genetics. II; 3 cr. Prerequisite: Course 101 or equivalent in Departments of Botany or Zoology. Mr. Brink.

105. Animal Genetics. II; 2 cr. Prerequisite: Same as for Genetics 104. (Omitted 1923-24.) Mr. Cole.

106. Biometric Methods. II; 2 cr. Prerequisite: Same as for Genetics 104. Mr. Brink.

120. Seminary. Yr.; 1 cr. Consent of instructor required before election. Mr. Brink.

121. Topical Work. Yr.; credit to be arranged. Consent of instructor required before election. Mr. Brink.

For Graduates

225. Research. Yr.; credit to be arranged. Mr. Cole, Mr. Brink.

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 PROFESSOR LITTLE*; ASSISTANT PROFESSORS COWLES‡, DODGE, HENDERSON, HILLSTROM†, MANNING, PARSONS‡; LECTURER MENDENHALL; INSTRUCTORS BRAUN, COOPER, CORBIN, CRAIGHILL, KINSLOW, LELAND*, SCHAIRER, SMITH, MISS TAYLOR, D. B. WOOD, MRS. M. WOOD; ASSISTANTS MORRISSEY, MYRLAND, SCHWENKER; FELLOW, MISS CAPE.

1. General Survey of Elementary Dietetics and Household Management. Yr.; 4 to 8 cr. Miss Marlatt, Miss Braun, Miss Cowles, Miss D. B. Wood and staff.

2. Art and Design. 1 and II; 3 cr. Miss Hillstrom, Miss Craighill, Mrs. Cooper.

3. Introduction to Food Study. II; 3 cr. Prerequisites are entrance credit in physics or chemistry or Chemistry 1a. Miss Marlatt, Miss Schairer.

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‡On leave of absence second semester 1923–24.
†On leave of absence first semester 1923–24.
*Resigned.

4. Economic Problems of Food Supply. I; 3 cr. Prerequisites: Chemistry 1, Agricultural Chemistry 3, Agricultural Bacteriology 4, Home Economics 3. Miss Schairer.

5. Introduction to Textile Study. I; 2-3 cr. Miss Kinslow.

6. Nutrition and Dietetics. II; 2 cr. Miss Parsons, Miss Braun.

16. Dietetics Laboratory. II; 2 cr. Prerequisites: Home Economics 3 and 4, Physiology 1, Agricultural Bacteriology 4, Chemistry 1, Agricultural Chemistry 3. Miss Parsons, Miss Braun.

7. House Architecture and Sanitation. I; 2 cr. Prerequisites: Chemistry 1, Physics 1 or 65, Agricultural Bacteriology 4, Home Economics 2. Miss Cowles.

17. House Architecture Laboratory. I; 2 cr. May be taken with 7 or following it. Miss Cowles, Miss Craighill.

8. House Decoration. II; 2 cr. Prerequisite: An elementary course in design. Miss Hillstrom.

18. House Decoration Laboratory. II; 2 cr. May be taken with 8 or following it. Miss Hillstrom, Mrs. Cooper.

9. Introduction to Home Economics. I; 1 cr. Miss Marlatt and staff.

10. Clothing Economics. I; 2 cr. Miss Manning.

11. Manufacture and Selection of Clothing. Yr.; 4 cr. Prerequisites: Home Economics 2, 5, and 50. Miss Manning.

20. Elementary Costume Design. I and II; 2 cr. Should be taken with Home Economics 104. Mrs. Cooper.

22. Organization and Administration of Institutions. II; 2 cr. Prerequisites: Economics 1a, Home Economics 4. Miss Smith.

32. Clothing for Children. II; 2 cr. Applied art, economics, hygiene, and sociology in teaching children's clothing. Mrs. M. Wood.

47. Dietetic Problems in Care and Feeding Children. I; 3 cr. Miss Parsons.

50. Textiles. II; 3 cr. Prerequisites: Home Economics 5, Agricultural Chemistry 3. Miss Kinslow.

70. Housing the Worker. II; 2 cr. Miss Cowles.

72. Home Nursing. I; 1 or 2 cr. Miss Morrissey.

90. Teachers Course. I or II; 2 cr. Miss Henderson.

Educ. A. Practice Teaching in Vocational Education. I or II; 2 cr. Mr. Miller, Miss Henderson and Miss Corbin.

94. Advanced Applied Design. II; 3 cr. Prerequisites: Home Economics 2 or Industrial Education 62, or equivalent. Miss Hillstrom.

95. Weaving. I; 1 or 2 cr. Miss Hillstrom and Miss Craighill.

96. Household Crafts. I; 2 cr. Mrs. M. Wood.

97. Advanced Costume Design. II; 2 cr. Miss Manning.

For Seniors and Graduates

101. Research Work. Yr.; credit to be arranged. Miss Parsons.

102. Topical Work. Yr.; credit to be arranged. May precede or be taken in connection with 101. Miss Parsons, Miss Marlatt, Miss Manning.

103. History of the Textile Industry. II; 2 cr. Miss Manning.

104. History of Costume in its Sociological Aspect. I; 2 cr. Miss Manning.

105. Experimental Food Study. I; 2 cr. Limited to seniors and graduate students. Miss Marlatt.

109. Humanics. II; 1 to 4 cr. Open to home economics seniors and seniors in the College of Letters and Science. Miss Marlatt.

110. Household Administration. I; 2 to 4 cr. Prerequisites: Chemistry 1, Agricultural Bacteriology 4, Physics 1 or 65, Home Economics 2, 3, 5, 6. Graduate students may take the lectures and cottage work and do the reference reading for two credits, and senior students may take the lecture and laboratory work for three or four credits. Miss Marlatt, Miss Dodge, Dr. Mendenhall.

120. Seminary. II; 1 cr. (Omitted 1923-24.) Miss Marlatt, Miss Dodge.

122. Food and Labor Cost Studies for Institutions. I; 2 cr. For seniors and graduate students in home economics. Miss Smith.

124. Vocational Education in Home Making. II; 2 cr. Miss Henderson.

125. Dietotherapy. I; 3 cr. Prerequisites: Home Economics 6. Miss Parsons and staff.

126. Extension Course in Home Economics. II; 2 cr. Miss Marlatt and staff.

127. Institutional Problems. II; 2 cr. Prerequisite: Home Economics 122. Miss Taylor.

132. Institutional Housekeeping and Laundry Management. I; 2 cr. Prerequisites: Agricultural Chemistry 3, Home Economics 22. Miss Taylor.

133. Tea Room, Restaurant, and Hotel Management. II; 2 cr. Prerequisites: Home Economics 22, 122, 127, 134. Miss Dodge and Miss Otto.

134. Institutional Equipment. I; 1 cr. Prerequisites: Home Economics 22, 122. Miss Smith.

190. Advanced Course in Home Economics Education. II; 2 cr. Miss Henderson and Miss Dodge.

For Graduates

222. Institution Economics. I and II; 2 to 6 cr. Miss Little.

223. Seminary on Housing Problems. I; 2 or 3 cr. Miss Marlatt, Miss Cowles.

290. Supervision in Home Economics. I; 2 cr. Miss Dodge.

HORTICULTURE

PROFESSORS J. G. MOORE (CHAIRMAN), MILWARD, J. JOHNSON; ASSOCIATE PROFESSORS AUST, ROBERTS; ASSISTANT PROFESSOR BRANN; INSTRUCTORS NIGHTINGALE, MULVANIN; ASSISTANTS BRADBURY, KREMERS, DYKSTRA.

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. Optional subject for all students. Mr. Moore.

2. Advanced Fruit Growing. Yr.; 2 cr. Prerequisite: Course 1 or consent of instructor. Mr. Nightingale.

3. Vegetable Gardening. II; 3 cr. Optional subject for all students. Mr. Moore.

4. Vegetable Forcing. Yr.; I; 3 cr. II; 2 cr. Mr. Moore.

5. Small Fruit Culture. I; 2 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.

10. Farm Forestry. I; 2 cr. Mr. Aust.

11. Potatoes and Truck Crops. I; 2 cr. Mr. Milward and Mr. Moore.

100. Thesis. Yr.; 2 or more cr. Mr. Aust, Mr. Johnson, Mr. Moore, Mr. Roberts.

For Undergraduates and Graduates

121. Experimental Horticulture. Yr.; 2 to 5 cr. Prerequisite: Consent of instructor. Mr. Aust, Mr. Moore, Mr. Roberts.

122. Systematic Pomology. I; 3 cr. Students electing this course should have had Horticulture 1 and 2. Mr. Nightingale.

***125. Advanced Landscape Gardening.** II; 2 cr. Continuation of Horticulture 6. Prerequisite: Course 6. Mr. Aust.

126. Rural Improvement. I; 2 or 3 cr. Prerequisite: Economics 1a or Agricultural Economics 1. Mr. Aust.

PLANT PATHOLOGY

PROFESSORS L. R. JONES (CHAIRMAN), GILBERT, KEITT; ASSOCIATE PROFESSORS DICKSON, VAUGHAN; ASSISTANT PROFESSOR BRANN; CURATOR DAVIS; LECTURER HUMPHREY; INSTRUCTORS L. K. JONES, STREETS; ASSISTANTS JANSSEN, MRS. STREETS, VESTAL, WALKER; SCHOLAR, MR. BROOKS.

For Undergraduates

5. Crop Diseases and Their Control. I; 2 cr. Mr. Vaughan and staff.

100. Thesis. Yr.; 2 cr. Investigation of some problems in plant pathology. 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.

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*See also City Planning, College of Engineering.

For Undergraduates and Graduates

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

102. Methods in Plant Pathology. I; 3 cr. Prerequisite: Plant Pathology 101. Mr. Keitt, Mr. Walker.

104. Morphology of Fungi. I; 3 cr. Prerequisite: Botany 1. Mr. Gilbert.

116. Diseases of Field Crops. II; 2 cr. Arranged to meet the needs of students specializing in plant pathology and agronomy. Prerequisite: Plant Pathology 101. Mr. Dickson, Mr. Streets.

117. Diseases of Orchard Fruits. II; 2 cr. A detailed study of the diseases of deciduous orchard fruits. Prerequisite: Plant Pathology 101. Mr. Keitt, Mr. L. K. Jones.

118. Diseases of Small Fruits. I; 1 cr. Prerequisite: Plant Pathology 101. (Omitted 1923-24.) Mr. L. K. Jones.

119. Diseases of Timber. I; 2 cr. Prerequisite: Plant Pathology 101. Mr. Humphrey.

120. Diseases of Garden Crops. II; 2 cr. Prerequisite: Plant Pathology 101. (Omitted 1923-24.) Mr. L. R. Jones, Mr. Streets.

122. Fungicides in Relation to Host and Parasite. II; 2 cr. Prerequisite: Plant Pathology 101. (Omitted 1923-24.) Mr. Keitt, Mr. L. K. Jones.

For Graduates

220. Advanced Mycology. Yr. Prerequisite: Plant Pathology 104. Mr. Gilbert.

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

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

225. Research. Yr.; cr. to be arranged. Mr. Gilbert, Mr. Keitt, Mr. Dickson.

252. Cytology of the Fungi. II. Prerequisites: Botany 104 and 150. Mr. Gilbert.

LIBRARY

ASSISTANT PROFESSOR C. S. HEAN, LIBRARIAN.

Ability of students to make efficient use of the resources of the libraries of the University is a valuable asset in all of their college work and greatly enhances the usefulness of these collections. A course in library practice should therefore prove useful to all students and especially so to those preparing to become research workers, extension workers, teachers or writers whose duties will require constant reference to books.

1. Library Practice. I; 1 cr. Mr. Hean.

POULTRY HUSBANDRY

PROFESSOR HALPIN (CHAIRMAN); ASSISTANT PROFESSOR HAYES; INSTRUCTOR LAMPMAN; 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, six varieties of ducks, five breeds of geese, and one breed of guinea fowl.

For Undergraduates

1. Poultry Raising. I; 3 cr. Optional subject. Mr. Halpin.

2. Poultry Raising. II; 2 cr. Continuation of course 1 Mr. Halpin.

5. Artificial Incubation and Brooding. II; 1 to 3 cr. Prerequisite: Course 2 on concurrent registration. Mr. Lampman, Mr. Johnson.

8. Market Poultry. I; 1 or 2 cr. Practice in fattening, killing, and dressing. Prerequisite: Course 1. Mr. Halpin, Mr. Johnson.

100. Thesis. Yr.; 2 cr. Mr. Halpin.

For Undergraduates and Graduates

106. Poultry Judging. I; 3 cr. Prerequisite: Course 1. Mr. Halpin.

107. Advanced Poultry Management. II; 3 cr. Prerequisites: Courses 1 and 2 or Animal Husbandry 126. Mr. Halpin.

120. Research. Yr.; credit to be arranged. Mr. Halpin.

SOILS

PROFESSORS WHITSON (CHAIRMAN), TRUOG; ASSOCIATE PROFESSOR MUSBACH; ASSISTANT PROFESSORS CHAPMAN, GRAUL, RICHARDS, STEWART, ULLSPERGER, ZEASMAN; INSTRUCTORS ALBERT, BARTHOLOMEW; FELLOW NOER; SCHOLAR PIERRE.

Course 1 is prerequisite to all other courses except courses 3 and 125.

Course 122 may be elected by Middle Course sophomores.

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. For courses offered see summer session bulletin.

For Undergraduates

1. Principles of Soil Fertility. II; 5 cr. Prerequisite: Chemistry 12 or concurrent registration. Required of all Long Course students. Mr. Graul.

3. Principles of Soil Fertility. I; 3 cr. Required of sophomores, Middle Course. Mr. Stewart.

100. Thesis. Yr.; 2 cr. Mr. Whitson and staff.

For Undergraduates and Graduates

120. Soil Management. I; 2 cr. Prerequisite: Soils 1. Mr. Whitson.

121. Soil Analysis. I; 3 or 5 cr. Prerequisite: Soils 1. Mr. Truog.

122. Soil Physics. II; 3 cr. Prerequisite: Soils 1. Mr. Stewart.

125. Soil and Land Classification and Agricultural Climatology. II; 3 cr. Mr. Whitson.

127. Advanced Soil Chemistry. II; 2 cr. Prerequisite: Soils 1. Mr. Truog.

228. Field Course. Yr.; 2-4 cr. Prerequisite: Soils 1. Mr. Whitson, Mr. Musbach, Mr. Albert.

231. Research. I and II. Mr. Whitson, Mr. Truog, Mr. Stewart.

232. Seminary. I and II; 1 cr. Mr. Whitson, Mr. Truog.

VETERINARY SCIENCE

PROFESSORS ALEXANDER, HADLEY (CHAIRMAN); ASSOCIATE PROFESSOR BEACH; ASSISTANT GILDOW.

The studies offered by the Department of Veterinary Science are designed to give students interested in animal production an opportunity to learn how the animal body is constructed and works. With this as a basis, the more important diseases of livestock are studied, especial emphasis being placed on methods of preventing these 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 veterinary science 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. Optional subject. Mr. Hadley.

2. Diseases of Horses and Swine. II; 2 cr. Mr. Hadley.

3. Diseases of Cattle and Sheep. I; 2 cr. Mr. Hadley, Mr. Alexander.

For Undergraduates and Graduates

124. Topical Work. Yr.; credit to be arranged. Mr. Hadley and staff.

125. Diseases of Poultry. II; 2 cr. Prerequisite: Poultry Husbandry 1. Mr. Beach. (Given in 1923-24 and in alternate years.)

126. Laboratory Diagnosis. II; 3 cr. Prerequisite: A course in bacteriology. Mr. Hadley. (Given in 1924-25 and in alternate years.)

AGRICULTURAL EXPERIMENT STATION

H. L. RUSSELL, DIRECTOR.

As the Wisconsin Agricultural Experiment Station is organically associated with the College of Agriculture, members of the college faculty constitute the staff of the Station. The purpose of the Station is the promotion of agricultural science by research and experimentation, and funds for the work come from both state and federal appropriations. Each of the several departments has research continually in progress, some members of the staff devoting the major portion of their time to investigations dealing with all of the problems of the farmer. As far as facilities permit, the subjects selected for research are those of greatest practical importance to Wisconsin farmers.

The publication of the Experiment Station include an annual report and a series of popular bulletins, research bulletins, and poster bulletins. Popular bulletins, including helpful discussions on results of experiments, are distributed free to residents of the state upon application, being 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. Apply for the popular bulletins to H. L. Russell, Director, Madison, Wis.

AGRICULTURAL EXTENSION SERVICE

H. L. RUSSELL, DIRECTOR.

The extension work of the College of Agriculture is organized to coordinate and extend departmental service among Wisconsin farmers, and farm women, spreading and disseminating information gathered in laboratory and field plot. Under this service three lines of work are carried on:

1. Field demonstration work of the several departments.
2. The county agricultural or home demonstration agent 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 such instruction and practical demonstrations many

thousands of rural people who are unable to come to Madison for resident instruction are aided directly by the College. Many of the extension activities are organized on the project basis, and partly supported by federal funds. This work is in home economics as well as in the field of agriculture. For printed matter and other information regarding this work, apply to K. L. Hatch, Assistant Director.

FARMERS' INSTITUTES

E. L. LUTHER, SUPERINTENDENT.

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 co-operation 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 30,000 copies and is distributed free of charge.

LAW SCHOOL

H. S. RICHARDS, DEAN, PROFESSOR OF LAW.

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.

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.

Admission

See pp. 119ff.

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 examination see Calendar, p. 8.

Pre-Legal Studies

The prospective law student should select in the first two years of his course those subjects that require precision in thought for their mastery, such as mathematics, foreign languages, natural or physical science. A knowledge of Latin is not indispensable to law study, but its study is strongly recommended not only for its disciplinary value, but as a means of developing a clear, strong English style in writing and speaking. Such a power is of the greatest value to the lawyer. Slovenly and diffuse expression in writing and speaking indicates inferior training and confused thinking.

The fundamental doctrines of the law dealing with the rights of the person and of property must be studied in their historical background. A student preparing for law should be well grounded in the history of England and the United States, particularly in those courses of an institutional character. Stu**prudence, or the history and philosophy of law, will find a read**dents **who desire to pursue advanced work in Roman law, juris**ing knowledge of German and French indispensable.

These provisions are not intended to exclude from the School persons who, for any reason, are unable to present these qualifications, but who, by reason of their maturity and experience, are capable of doing efficient work in law. Accordingly any person who is at least twenty-one years of age and who can satisfy the general entrance requirements of the University, as hereinafter set out, may enter the School as an unclassified student, participating in all its advantages as to instruction.

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 in the College of Letters and Science may elect courses in the Law School toward their Arts degree. By enrolling in the combined course in Arts and Law, advanced standing not to exceed one year may be obtained in the Law School.

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 at least twenty-one years of age, of good character, and who, in the judgment of the Faculty, possess satisfactory legal attainments, and who have complied with the following conditions:

(1) Credit for at least seventy-four semester hours (a semester hour is the equivalent of one hour a week for a semester) with a weighted average of *C*.

(2) Residence of at least three years in a law school of good standing, having a three-year course, the last year of which must have been in this School.

(3) Candidates for graduation, in addition to the above requirements, must serve a clerkship of not less than six months in a law office. The requirement must be absolved at a time when the candidate is not in attendance upon the University. At the option of the candidate the requirement may be met by two periods of not less than three months each. The requirement must be entirely absolved after the student shall have received credit for not less than twenty semester hours in the Law School. Credit for office study will not be granted unless the student complies with the following regulations:

(a) At the beginning of the clerkship, he must file a certificate signed by his preceptor stating the date on which the clerkship began.

(b) A like certificate showing the date of completion of the clerkship must be filed at the completion of the period.

(c) A monthly report, signed by the student and endorsed by the preceptor, showing the kind and amount of work assigned to the student during the period of the report must also be filed.

Provided, however, that a candidate for graduation who has obtained credit for the courses in evidence, pleading, practice, office practice, and practice court, and who has obtained credit for at least eighty-two semester hours as herein defined, with a weighted average of *C*, and who has a residence of at least three years and three months in a law school of good standing, having a three-year course, the last year of which must have been in this School, will be relieved from the above requirement of office study.

Students completing the course with distinguished excellence may be recommended for the degree with honor.

The work of the first year is required and such other work of the second and third years as may from time to time be designated by the Faculty.

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 in the state.

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. Rice.

Common Law Actions. I; 2 cr. Mr. Wickhem.

Contracts. Yr.; 6 cr. Mr. Page.

Criminal Law and Procedure. II; 4 cr. Mr. Hall.

Legal Bibliography. I; 1 cr. Mr. Wickhem.

Legal Liability. I; 3 cr. Mr. Rice.

Property I. (Personal). I; 2 cr. Mr. Brown.

Property I. (Real). II; 2 cr. Mr. Brown.

Torts. Yr.; 4 cr. Mr. Rundell.

Second and Third Years

Administrative Law I. I; 2 cr. (Omitted 1923-24.) Mr. Hall.

Administrative Law II. I; 2 cr. Mr. Hall.

Administrative Law III. I; 2 cr. (Omitted 1923-24.) Mr. Hall.

Administrative Law IV. I; 2 cr. Mr. Hall.

Bankruptcy. II; 2 cr. (Omitted 1923-24.) Mr. Brown.

Bills of Exchange and Promissory Notes. I; 3 cr. Mr. Wickhem.

Carriers. II; 3 cr. Mr. Rice.

Conflict of Laws. II; 3 cr. Mr. Page.

Constitutional Law. Yr.; 6 cr. Mr. Brown.

Conveyancing. II; 3 cr. Mr. Rundell.

Corporations. II; 4 cr. Mr. Richards.

Damages. II; 2 cr. Mr. Brown.

Equity I. I; 3 cr. Mr. Smith.

Equity II. II; 3 cr. Mr. Smith.

Evidence. I; 4 cr. Mr. Smith.

Future Interests. II; 4 cr. Mr. Rundell.
History of Law. I; 2 cr. (Omitted 1923-24.) Mr. Page.
Insurance. I; 2 cr. (Omitted 1923-24.) Mr. Rundell.
International Law. II; 3 cr. Mr. Potter.
Labor Laws. II; 3 cr. Mr. Rice.
Mortgages. I; 2 cr. Mr. Rundell.
Office Practice. II; 2 cr. Mr. Wickhem.
Partnership. I; 2 cr. Mr. Richards.
Persons. I; 3 cr. Mr. Rice.
Pleading. Yr.; 4 cr. Mr. Boesel.
Practice Court. II; 1 cr. Mr. Wickhem.
Practice. Yr.; 4 cr. Mr. Sanborn.
Professional Conduct. II; no credit (required). Justice Rosenberry.
Public Service Companies. I; 3 cr. Mr. Rice.
Quasi-Contracts. II; 3 cr. Mr. Smith.
Sales. II; 3 cr. Mr. Smith.
Servitudes. I; 3 cr. Mr. Rundell.
Suretyship. I; 3 cr. Mr. Brown. (Omitted 1923-24.)
Trade Regulations. I; 2 cr. Mr. Rice.
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. 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 Actions, two credits, Pleading, four credits, Practice, four credits, Practice Court, two credits. 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.

Wisconsin Law Review

The *Wisconsin Law Review* was established in 1920 by authority of the Regents. The *Review* appears quarterly, and deals primarily with questions in Wisconsin law and legal problems of particular interest to Wisconsin lawyers. The Board of Editors consists of the law faculty and a Board of fourteen student editors selected from the student body. Eligibility to the Board is determined largely by scholastic standings.

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. 146.

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.

Library

The library of the Law School contains 33,000 bound volumes, comprising the official reports of the various states and terri-

tories 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; Ruling Case Law; Corpus Juris; American Law Reports; British Ruling Cases; 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.

Fees and Expenses

See pp. 88ff.

Receipts showing the payment of tuition must be filed with the Dean within ten days after entry.

Summer Session

(June 23–August 29, 1924)

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.

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

For matriculation in the Medical School a student must furnish evidence:

1. That he has satisfied the requirements for admission to the College of Letters and Science.

2. That he has completed at least the equivalent of two years' work, including the required Freshman English, in this College.

3. That he has successfully pursued laboratory courses of college grade in physics, general and organic chemistry, and biology.

4. That he has studied elementary Latin.

5. Completion of fourth semester French or German with grade of 80 or above or a certificate of reading knowledge for either of these languages.

(For admission to the Medical Science Course, see p. 120.)

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 pre-medical 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, who meet the requirements for the respective degrees. The degrees of master of science, master of public health, doctor of philosophy and doctor of public health are conferred by vote of the graduate 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 composition. 6 credits (3 credits per semester), to be taken in freshman year.

b. Foreign language. (1) A knowledge of elementary Latin, i. e., two years of high school Latin or its equivalent in college. (2) Either the completion of the fourth semester of French or German *at the University of Wisconsin* with a grade of 80 or above *or* a certificate of reading knowledge of one of these languages from the appropriate department at the University of Wisconsin. At least two years of work in foreign language shall be taken in college. (If first and second-year courses are elected this will mean 14 to 16 credits.)

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.)

Elective work should be chosen with the intention of making the course of study broad as well as thorough.

d. 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.

e. 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.

The following science studies are required:*

Pre-Medical Work

	Lectures and Recitations	Laboratory Hours	Credits
Chemistry 1	128	192	10
Chemistry 120 (Organic)	48	96	4
Physics 1 or 31	160	128	10
Biology 1	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

*It is recognized that similar courses at other institutions may not correspond to the scientific courses given at Wisconsin. This will not prevent full credit being granted for approximately equivalent courses pursued elsewhere.

Second year Medical Course			
Pathology	80	192	7– 8
Bacteriology and Hygiene	64	112	5
Pharmacology and Toxicology	64	144	4– 6
Clinical Medicine	64–96	195–243	5–10
	272	643	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

First Semester	Credits	Second Semester	Credits
English 1a	3	English 1b	3
German or French	4	German or French	4
Chemistry 1a	5	Chemistry 1b	5
Physics 1 or 31	5	Physics 1 or 31	5
Total	17	Total	17

Sophomore Year

German or French	4	German or French	4
Biology 1	5	Biology 1	5
Chemistry 120 (Organic)	4	Anatomy 115 (embryology)	2
Electives	3	Electives	5
Total	16	Total	16

Junior Year
(First Year in the Medical School)

First Semester		Second Semester	
Anatomy 110 (histology)	4	Anatomy 126 (neurology)	4
Anatomy 121	6	Anatomy 121	6
Physiological Chem. 104	4	Physiology 105	7
Physiology 105	2		
Total	16	Total	17

Senior Year
(Second Year in the Medical School)

Pathology 101	5	Pathology	2
Medical Bacteriology 102	5	Toxicology 101–102	2
Pharmacology 104–105	4	Clinical Medicine 101–103	10
Thesis	2	Thesis	2
Total	16	Total	16

. 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 Johns Hopkins, Cornell, Columbia, Rush, Western Reserve, Harvard, Yale, California, Leland Stanford, and Pennsylvania 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 1923–24. 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
Total	15	Total	18

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, MILLER; ASSISTANT PROFESSORS BAST, SULLIVAN; INSTRUCTORS GEIST, OSGOOD; STUDENT ASSISTANTS HIPPLE, LACEY, OUTHOUSE, RANDOLPH, ROBBINS, SCHACHT.

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 re-

search 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. Bast.

115. Mammalian Embryology. 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. Sullivan.

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. Bast.

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, LORENZ; ASSOCIATE PROFESSOR MIDDLETON; ASSISTANT PROFESSORS BLANKINSHIP, MORRIS, MOWRY; LECTURERS BROWN, CARTER, DEAN, GREELEY, JACKSON, KAY, ROBBINS, SCHNEIDERS, TORMEY; INSTRUCTORS BAUER, GONCE, TENNEY.

101. Physical Diagnosis. II; 5 cr. Dr. Evans and staff.

102. Clinical Laboratory Diagnosis. II; 3 cr. Dr. Stovall.

103. Minor Surgery and Bandaging. II; 2 cr. Dr. Van Valzah and staff.

104. X-Ray Technique. II; credit to be arranged. Dr. Blankinship.

105. Medical Specialties. II; 1 cr.

114. Physical Examination. II; 3 cr. Required of students majoring in physical education. Dr. Meanwell, Dr. Morris.

HYGIENE

PROFESSORS EVANS, EYSTER, CLARK; ASSOCIATE PROFESSOR STOVALL; ASSISTANT PROFESSOR DAWSON.

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

5. Health and Disease. II; 2 cr. Dr. Cromwell.

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; 5 cr. Given in connection with Physiology 106 and 107, 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. Clark.

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.

120. Practical Field Work. II; cr to be arranged.

PATHOLOGY AND MEDICAL BACTERIOLOGY

PROFESSORS BUNTING, CLARK; INSTRUCTORS COON, CROMWELL, HOLFORD, ROMBERG; STUDENT ASSISTANTS SOMMER, THOMAS.

For Undergraduates

5. Health and Disease. II; 2 cr. Required course for Physical Education students. Dr. Cromwell.

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; 5 cr.; II; 2 cr. The work of the second semester is a continuation of that of the first semester. Prerequisites: Anatomy 110, Physiology 105.

102. Medical Bacteriology. I; 5 cr.

103. Experimental Pathology. II; 4 cr.

104. Immunology. II; 4 cr. Prerequisite: Course 102.

107. Sanitary Bacteriology. II; 3 cr. Given in conjunction with Hygiene 126.

For Graduates

204. Advanced Pathology. Yr.; credit by arrangement.

205. Journal Club. Yr.; 1 cr.

206. Advanced Bacteriology. Yr.; credit by arrangement.

PHARMACOLOGY AND TOXICOLOGY

PROFESSOR LOEVENHART; ASSISTANT PROFESSOR LEAKE; INSTRUCTORS BLECKWENN, SCHMITZ, WAKERLIN; ASSISTANT WHITMER; RESEARCH CHEMISTS SANDER, YOUNG.

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. General Toxicology. II; 1 cr. Lectures. Dr. Loevenhart.

102. General Toxicology. II; 1 cr. Laboratory. Dr. Loevenhart.

104. General Pharmacology. I; 2 cr. Lectures. Dr. Loevenhart, Mr. Schmitz.

105. General Pharmacology. I; 2 cr. Laboratory. Dr. Loevenhart, Mr. Schmitz.

108. Advanced Pharmacology and Toxicology. Dr. Loevenhart.

112. Independent Investigation.

120. Journal Club. Yr.; 1 cr. Dr. Loevenhart.

222. Seminary. Yr.; 1 cr. Dr. Loevenhart.

PHYSIOLOGICAL CHEMISTRY

PROFESSOR BRADLEY; ASSISTANT PROFESSOR SEVRINGHAUS; STUDENT ASSISTANTS HANNON, HEATH, HERMAN, PAULL.

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, Dr. Sevringhaus and assistants.**

114. Physiological Chemistry. I; 3 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: General chemistry. Dr. Bradley, Dr. Sevringhaus, and assistants.

117. Advanced Physiological Chemistry and Research. Yr.; credit according to work done.

120. Journal Club. Yr.; 1 cr. Dr. Bradley.

222. Seminary. Yr.; 1 cr. Dr. Bradley, Dr. Sevringhaus.

Instruction in the Treatment of Diabetes by Dietary Measures and Insulin. No credit. For physicians and special dieticians. A one week intensive course at times to be arranged. Open to Wisconsin physicians without university registration.

PHYSIOLOGY

PROFESSORS MEEK, EYSTER; ASSISTANT PROFESSOR DAWSON; INSTRUCTORS MCCREA, HODGES; ASSISTANTS BASSUENER, WILSON.

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.

2. Elements of Physiology. I; 1 cr. Laboratory. Required of sophomores in home economics; open to others as an elective. **Prerequisites: Chemistry and zoology. Dr. Meek, Mr. McCrea.**

3. Animal Physiology. II; 4 cr. Especially designed for students in agriculture, but open to other students. Dr. **Meek, Mr. McCrea, and assistants.**

For Undergraduates and Graduates

105. Medical Physiology. Yr.; I; 2 cr.; II; 7 cr. Required of juniors in medicine and open to others as an elective. Prerequisites: Anatomy 110, 121, and 126, and Physiological Chemistry 104. Dr. Eyster, Dr. Meek, Dr. Dawson and assistants.

107. Physiology of Exercise. I; 3 cr. Required of seniors in physical education and open to others as an elective. Pre**requisite: Physiology 105 or 115. Dr. Dawson.**

115. Physiology. Yr.; I; 2 cr.; II; 5 cr. Required of juniors in physical education and open to others as an elective. Prerequisites: Anatomy 120 and Physiological chemistry 114. Dr. Eyster, Dr. Meek, Dr. Dawson and assistants.

118. Advanced Physiology and Research. Yr.; credit according to work done. Dr. Eyster, Dr. Meek, Dr. Dawson.

120. Journal Club. Yr.; 1 cr. Reports on recent physiological and biochemical literature. Dr. Meek.

121. History of Medicine. 1; 1 cr. Prerequisite: Physiology 105 or 115. Dr. Dawson.

For Graduates

208. Advanced Laboratory Course in Physiology. Designed for teachers of animal physiology as well as for physicians and students in medicine who desire a wider experience in experimental physiology than can be gained in course 105. Dr. Eyster, Dr. Meek.

222. Seminary. Yr.; 1 cr. Dr. Meek, Dr. Eyster.

GRADUATE SCHOOL

CHARLES S. SLICHTER, DEAN

Admission to the Graduate School

Graduates of the four-year courses of the various colleges of the University of Wisconsin are eligible for admission to the Graduate School without examination. Undergraduates of the University of Wisconsin who have completed all requirements for the baccaleaureate degree with the exception of six credits or less may be admitted to the Graduate School before the degree is actually conferred. Graduates of other institutions in which the requirements for first degrees are substantially equivalent to those at the University of Wisconsin will be admitted to the Graduate School upon filing in the Graduate office an official transcript of their undergraduate record.

Graduates of other institutions in which the requirements for a bachelor's degree fall short of those demanded at the University of Wisconsin, may be admitted to the Graduate School, provided their training is evaluated as less than a year short and on conditions determined by the character of their previous training.

Admission to the Graduate School does not of itself imply admission to candidacy for an advanced degree. Admission to candidacy is determined only after a student has shown that he possesses the necessary qualifications for the successful pursuit of graduate study.

Members of the faculties of other institutions or of the staffs of research organizations, who have been granted higher degrees, are invited to avail themselves of the facilities offered by this University to do special investigation.

Registration

Graduate students will register in the office of the Dean (Room 157, Bascom Hall.) First registration is permitted by the Dean only after the educational attainments of the applicant have been approved. An application for admission, except in the case of

a graduate of the University of Wisconsin, must be accompanied by a certified transcript of the undergraduate record and should be forwarded to the Graduate Office some weeks in advance of the registration days.

In order to avoid the delays incident to the opening of the academic year, applicants for admission are advised to find out beforehand, in person or by letter, whether the college from which the bachelor's degree was granted is on the accepted list, or to get a ruling upon an education claimed to be the equivalent of an acceptable bachelor's degree, as shown on the transcript of undergraduate record.

After the Dean has approved the registration of a student, he will issue an election card to the student to present to his major professor under whom he desires to study. This election card, after being approved by the major professor should be promptly returned to the Graduate Office. Upon the completion of his registration in the Graduate Office the student immediately registers with the University Registrar, who will provide a statement of fees to be paid to the University Bursar.

At the opening of each semester graduate students are required to re-enroll in the Graduate Office.

Aims and Methods

The Graduate School aims to serve the needs of men and women of college training or equivalent attainment who desire a larger and more thorough acquaintance with the scholarship and research of the world than can be obtained in the current undergraduate course.

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 of the results of special meritorious work of this kind, and doctor's theses of more than common merit are occasionally thus published.

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.

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, Classical Club, Language and Literature Club, Historical Conference, Romance Language Club, Graduate Club in Education, German Journal Club, Chemical Club, Biological Club, Mathematical Club, Mining Club, University of Wisconsin Branch of the American Institute of Electrical Engineers, Wisconsin Section of the American Chemical Society, University of Wisconsin Section of the American Electro-Chemical Society.

The Graduate Club, while sharing in these purposes, is primarily a social organization for the promotion of acquaintance and good fellowship among graduate students and members of the faculty.

University Research Fund

The State Legislature has provided the sum of $35,000 for the promotion of research in the University. The University Research Committee receives applications for allotment of funds for research projects for which special aid is needed and for which adequate funds are not available from other sources.

Fellowships and Scholarships*

University Fellowships

For the purpose of promoting higher scholarship and research the Regents of the University has established twenty-six University Fellowships of the annual value of $500 each. These are allotted to the several departments of instruction as follows.

To Economics, two; to History, two; to Geology, and the biological sciences (Zoology), two; to Engineering, two; to Agriculture, four; to the following departments and groups of departments, one each, viz., Botany, Political Science, Economics (Sociology), Latin, Greek, German, Romance Languages, Chemistry, Physics, Mathematics and Astronomy Philosophy and Psychology, Education, Home Economics, Semitics.

To the above should be added certain endowed fellowships specially described upon the 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 only upon application, which should be made upon a special blank form furnished by the Dean of the Graduate School; such application, with accompanying evidence of merit attainment, and ability, to be in the hands of the Dean of the Graduate School 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 should pursue his studies under the direction of

*With the exception of honorary fellows, all fellows and university scholars are required to pay the incidental fee.

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.

Wisconsin Legislative Scholarships

There are available in the Graduate School of the University of Wisconsin to nonresidents of this state, a number of so-called Legislative Scholarships which pay the recipient $124 per year, or an amount equal to the nonresident tuition fee. The assignment of these scholarships is in the hands of a sub-committee of the Graduate Committee of the University. Candidates for these scholarships should apply to the Dean of the Graduate School for an application form and submit to that office a transcript of their undergraduate record, and of any graduate work already completed.

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 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 incumcumbent 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 approximateley $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-eight 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, six 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.

The Rhodes Scholarship

A scholarship is of the value of $350 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. For detailed information address, Mr. Arthur Doe, Secretary, Wisconsin Committee of Selection for Rhodes Scholarships, 50 Sentinel Building, Milwaukee, Wisconsin.

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.

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 $290.

For the year 1924–25 two appointments can be made to this scholarship.

Milwaukee Fellowships and Scholarships in German

For the year 1924-25 there are available in the department of German: the Charles F. Pfister Fellowship $400, the Henry Schoelkopf Fellowship $375, the Albert F. Gallun Scholarship $200, the Albert Trostel Scholarship $200.

Other Scholarships and Fellowships Available in 1923–24

The Fritzche Brothers Fellowship in Pharmacy of the value of $500 is offered by the Fritzche Brothers of New York. The holder of this fellowship is to do research work in plant chemistry with special reference to the Monardas and related problems.

The Newport Chemical Company provides a fellowship, or fellowships, in Pharmacy of the value of $1,000 to be devoted to research work along the line of synthetic new remedies.

The du Pont Fellowship in Chemistry of $750 is offered by E. I. du Pont de Nemours and Company of Wilmington, Del.

Two scholarships consisting of $500 each with remission of tuition fees are offered for French young women. These young women are to reside in the French House.

The Wisconsin Gas Association provides a fund of $500 for a fellowship in gas engineering, department of chemical engineering.

The Wisconsin chapter of Omicron Nu offers a yearly scholarship, open to either graduate or undergraduate students. It returns from $200 to $250 a year.

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 $200 to $500 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.

Second Degrees (Non-Professional)

The University of Wisconsin confers the following second degrees: master of arts, master of science, master of philosophy. 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 equivalent 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 of master of science will be conferred only upon candidates who are adequately trained in mathematical, chemical, physical or biological science. 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 degrees 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 candidates must sustain an oral examination upon the preliminary training and 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.

Master of Science in Engineering

The degree of Master of Science in Engineering (the diploma to contain a specific designation of the course taken, as for example, Master of Science in Civil Engineering) will be conferred upon candidates whose undergraduate work corresponds to that leading to the degree of Bachelor of Science in Engineering, as conferred at the University of Wisconsin, under the following conditions:

1. The candidate shall satisfy all of the general regulations pertaining to second degrees described in the preceding section.

2. The candidate must maintain a *superior grade* in his graduate work.

3. The candidate is required to submit a thesis giving evidence of analytical investigative work. The study may be of an economic, historical, statistical, theoretical, or experimental type. A typewritten copy of the complete thesis, bearing the approval of the professor under whom it is taken, must be filed with the librarian of the University on or before June first of the year in which the degree is conferred.

4. A graduate from the College of Engineering of this University or a graduate from another school with equivalent preparation who continues his studies in the same branch of engineering in which he obtained the bachelor's degree, can complete the requirements for the master's degree in engineering in one year.

5. A graduate whose training has not been equivalent to that offered in the College of Engineering of this University will be required to spend more than one year in graduate study before he will be granted his advanced degree. If the student is required to do more than one semester's work to make up the undergraduate requirements in the College of Engineering of this University, he will not be allowed to register in the Graduate School, but must enroll in the College of Engineering.

6. The Advanced Standing Committee in the College of Engineering, subject to the approval of the Graduate Committee, shall determine whether the student is sufficiently prepared to do graduate work or whether he should enroll in the College of Engineering.

Professional Engineering Degrees

The degrees of Civil Engineer, Mechanical Engineer, Electrical Engineer, Chemical Engineer, and Engineer of Mines will be

granted to graduates from the College of Engineering of the University of Wisconsin, who have spent five years in professional and educational work (during one of which they must have been in responsible charge), who have proved their ability to plan or to design as well as to direct engineering work or original investigation along engineering or scientific lines, and present an acceptable thesis.

The thesis shall give evidence of professional attainment. It shall be in such form and of such original contributive or analytical character as to make it suitable for publication in the proceedings of the appropriate national engineering society. The thesis may be an engineering study of an economic design, or research nature. It may not be a mere description of usual engineering work or a digest of engineering literature.

The professional degree will be granted in the course in which the candidate has received his B.S. or M.S. degree, unless the candidate requests otherwise, and, with his request, submits satisfactory evidence to his scientific attainments in the field in which the professional degree is requested.

Graduates who hold the degree of M.S. in Engineering from the University of Wisconsin are credited with two years' professional work.

A copy of the thesis must be in the hands of the Dean not later than May 1, if the candidate is to receive his degree at the following Commencement.

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.

Requirements for the Master's Degree Partly in Absentia

By consent of the departments concerned, any person who has been admitted to the Graduate School in full standing, 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. Candidates should make formal application in the Graduate Office for permission to do work *in absentia*.

2. The candidate must conform to all of the regulations for candidates for the master's degree with exception of the requirement of residence at the University.

3. During a period of two 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. 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.

All of the work, resident and *absentia*, must be completed within a period of five consecutive years.

4. 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. The amount and character of the work will be tested at the opening of each summer session by examination upon the ground covered *in absentia* during the preceding year.

5. Work done *in absentia* will not shorten the residence requirement for the degree of doctor of philosophy in case the student should later become a candidate for that degree.

6. All *absentia* assignments will be made in writing and filed in the office of the Graduate School.

7. A thesis is required of all candidates working on the *absentia* basis.

8. The residence assignment for a summer session shall consist of work in a major department yielding from 4 to 6 credits.

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

I. The Degree Doctor of Philosophy is a research degree. It is not a degree conferred solely as a result of study, no matter how faithful, extending over any prescribed period; it does not rest merely upon any computation of time or any enumeration of courses. Questions of residence and plans of study, listed below as the minimum, are secondary. The granting of the degree is based essentially upon evidence of general proficiency and of distinctive attainments in a special field, and particularly upon the recognized power of independent investigation as shown by the production of a thesis embodying original research or relative scholarship and presented with a fair degree of literary skill.

II. Residence: 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 must be spent at this University. But it is to be understood that the mere completion of three years of resident study does not of itself confer a right to take the final examination. The matter of time is determined by the character of a student's undergraduate record and by the quality of the work done in the graduate school.

One whose undergraduate work is insufficient in amount or too narrowly specialized must count on spending additional time

in preliminary studies essential as a basis for the advanced work the student proposes to undertake.

Candidates who are engaged in teaching or other remunerated employment will be required to devote to their candidacy such period in excess of the minimum requirement of three years as may be designated by the Graduate Committee. It is suggested as a very desirable consideration that every candidate for the degree should arrange to devote at least one year exclusively to graduate study.

Residence as a graduate student in another institution of approved standing will be accepted at the University, but residence elsewhere will not reduce the minimum of one year of residence in this University. In evaluating the time spent and the work done elsewhere each case will be determined by its merits.

In absentia work credited for the degree of Master of Arts will not shorten the residence requirement for the degree of Doctor of Philosophy in case a student becomes a cadidate for that degree.

In order to give the work of a graduate student greater breadth, a student may be granted absence from the University to do special investigation in the field or to take advantage of opportunities for research in a special subject not to be found in the University. Such leave of absence is granted only in special cases and under definite limitations.

III. Languages: A reading knowledge of both French and German is required of all candidates. Certificates of ability to read French and German must be secured from the departments of German and French in this University and must be filed with the Dean of the Graduate School before the candidate is admitted to the preliminary examination.

The use of any other foreign language essential to the work of the major subject is in addition to French and German. It is expected that a candidate should have a reading knowledge of at least one language, French or German, upon entrance to the Graduate School, and that he should prove his ability to read one of the two, if not both, by the end of the first year of graduate study.

IV. Plans of Study: The degree of Doctor of Philosophy is never granted for miscellaneous studies. The course as a whole must be rationally unified and all constituent parts must contribute to some general object of study and research. The course

must be selected from groups, embracing one principal subject, called the Major, and one or two subsidiary and cognate branches, called the Minor.

Major Study: a candidate is required to select a field of study which may be co-extensive with the work of a single department, or with one of the "subjects" under which certain departmental plans of courses are arranged, or which may be constructed from two closely interrelated subjects. Only in the exceptional case will a Major be allowed to extend beyond a single department and then only with the prior approval of the Dean.

Minor Studies: in order to obviate overspecialization, a candidate is required to pursue one, and may pursue two, minor studies lying outside the major subject but cognate with it. The relation of the subsidiary subjects to the principal and the number of them depends largely on the character of the course as a whole and the general attainments of the candidate. In general the Minor shall aggregate from a fourth to a third of the time devoted to graduate study.

Major Professor: One of the instructors in the department of the Major is selected by the student as his Major Professor. The candidate will consult the Major Professor in the selection and arrangement of a program of work embracing both the major and minor fields. The Major Professor will have immediate supervision of the thesis. The candidate should consult with the Major Professor at suitable intervals. It is one of the unique advantages of graduate life that a student comes into freedom of association with older scholars who will seek to make his work profitable by counsel and assistance and who will aid the student in acquiring for himself the discipline and method of independent scholarship.

Departments and Divisions: The work of the Graduate School as a whole is organized not only according to Departments, but also according to Divisions, each of which includes allied departments. Subjects differ greatly and the requirements fixed by a Department or a Division cannot be stated in terms at once specific and uniform. Information about the special requirements of Departments or Divisions is to be found in the separate announcements given later in this bulletin.

V. Admission to Candidacy: A student is not permitted to take the final examination for the degree until he has been formally admitted to candidacy by passing a preliminary quali-

fying test. This preliminary examination must be taken not less than twelve months in advance of the date when the degree is expected to be conferred. Exceptions to this rule may be made in individual cases upon recommendation of a Division to the Graduate Committee; and for students who come to Wisconsin for their last year of graduate work arrangements will be made whereby the preliminary examination can be taken in the early part of the academic year.

The candidate shall file with the Dean a formal application to be admitted to candidacy for the doctor's degree. A blank form suitable for this purpose is furnished by the Graduate office and this formal application should embrace the following statements: (a) Departmental recommendations of candidacy based upon a formal written examination, or an oral examination before a duly appointed committee, or such other substantial test as the departments may elect. The nature of the test shall be stated in the recommendation. (b) The scope of the proposed minors with the approval of the professor who assumes charge of each minor. (c) The title of the proposed thesis (subject to future verbal change) approved by the Major Professor. (d) Certification that the French and German requirements have been met.

VI. Final Examination: The degree, Doctor of Philosophy, is not granted for faithful study for a prescribed time or in fulfillment of a definite program, but on the ground of long study and distinct attainments in a special branch of knowledge manifested by a final examination and by the presentation of a thesis which gives evidence of original treatment of a fitting subject and forms a contribution to knowledge.

Oral Examination: Every candidate for the doctor's degree is subject to an oral examination upon the thesis and the general field of the major and minor studies, but the preliminary examination may be construed as final in certain aspects of the major and minor subjects if the professors in charge of the candidate's work are satisfied with his preparation. Such delimitation of the subjects to be offered in the final oral examination must be made a matter of record with the Dean of the Graduate School.

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.

VII. Thesis. At any time after admission to candidacy, and at least 30 days prior to the final examination, 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. The Dean will furnish an official title page for the thesis and appoint a committee of three consisting of the major professor and two members of the Graduate Faculty, to pass upon its substantial merits. Their report, if favorable, shall be endorsed upon the official title page. When so endorsed, the thesis shall be brought to the Graduate Office and then filed in the University Library. The thesis may be withdrawn from the Library only upon written authorization of the Dean of the Graduate School. In case of divided opinion among the examiners, the case shall be referred to the Graduate Committee with right of appeal to the Graduate Faculty.

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.

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 below. At the expiration of the period thus prescribed 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.

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 doctor's theses

published in (a) such scholarly periodicals as society or university publications as shall be approved by the Dean of the Graduate School, or (b) 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 prescribed. 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.

Fees and Expenses

See pp. 88ff.

Graduate Circular

The special announcement of the Graduate School, giving detailed information concerning the School, may be obtained upon application to the Graduate Office, 157 Bascom Hall. Special bulletins of the Division of Biology, Chemistry, Education, Language and Literature, and the Social Sciences may also be obtained from the Graduate Office.

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.

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.

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 travel-

ing 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 and interpret 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
Fourth District Office.....Superior
Fifth District Office.....Wausau
Sixth District Office.....Eau Claire
Seventh District Office.....Madison

CORRESPONDENCE-STUDY DEPARTMENT

WILLIAM H. LIGHTY, SECRETARY

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, non-resident 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 toward 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 toward 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 non-residents 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 neces-

sary 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 toward 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 toward 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-five dollars, or, in terms of University credit, is at the rate of five dollars a credit. No registration fee is charged for Wisconsin students, but a registration fee of two dollars is required from those enrolling from without Wisconsin. 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. 145-155); Types of Business Organizations (C. 145); Industrial Management (C. 150a-152); Sales, Purchase, and Shipping Methods (C. 153); Advertising Campaigns (C. 154); Credits and Collections (C. 155); Bookkeeping and Accounting—Bookkeeping and Introductory Accounting (C. 128A); Advanced Bookkeeping and Elementary Accounting (C. 128B); Accounting Principles (C. 129); Cost Accounting (C. 136); Municipal Accounting (C. 134); Advanced Accounting Problems (C. 135); Federal Income Tax (C. 132A); 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 (C. 159A); Retail Store Management (C. 159B); Retail Advertising (C. 191A); Commercial Correspondence (C. 102); Real Estate (C. 174); Investments (C. 169).

Chemistry—Elementary Chemistry* (C. 1); Qualitative Analysis* (C. 2).

Drawing, Mechanical—Shop Sketching (C. 203); Shop Drawing (C. 204A); Advanced Shop Drawing (C. 204B); Prin-

ciples of Architectural Drawing (C. 243A); Advanced Architectural Drafting (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—Principles of Economics* (C. 1); Labor Problems* (C. 2); Railway Transportation* (C. 3); Socialism* (C. 4); Economics of Saving and Investment (C. 5); Elements of Money and Banking* (C. 10); Brief Course in Money and Banking (C. 10A); Current Economic Problems* (C. 11); Social Psychology* (C. 15); General Sociology* (C. 16); Practical Sociology* (C. 17); Social Problems* (C. 24); Immigration and Americanization* (C. 30).

Education—Mental Development* (C. 1); Educational Psychology* (C. 3); History of Modern Education* (C. 6); Principles of Secondary Education* (C. 31); Social Development and Education* (C. 51); Advanced Educational Psychology* (C. 61); History of American Education* (C. 71); Supervision of Instruction* (C. 81); The Reorganized High School* (C. 86); Educational Statistics and Graphics* (C. 63); Educational Tests and Measurements* (C. 65); Remedial and Follow-up-Work in Reading* (C. 70A).

Engineering, Civil and Structural—Civil and Structural Engineering Drawing (C. 404); Elements of Structural Theory (C. 450–454 inc.); Use of Structural Steel Handbook (C. 455); Roof Trusses (C. 410); Plate Girders (C. 411); Bridge Stresses—Part A (C. 412A); Bridge Stresses—Part B (C. 412B); 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); Elements of Structures (C. 408); Elements of Structures (C. 409); Practical Course in Concrete (C. 430); Structural Steel Drafting and Elementary Design, Parts A and B (C. 431A and B), Part C (C. 431C), Part D (C. 431D); Materials of Construction (C. 472); Concrete Construction Superintendence, Part A (C. 474); Concrete Construction Superintendence, Part B (C. 475); Elementary Surveying (C. 441A); Advanced Surveying (C. 441B); Highway Surveying (C. 442); Practical Hydraulics (C. 481); Practical Hydraulics

(C. 482); Advanced Hydraulics (C. 483); Railway Curves (C. 445); Roads and Pavements (C. 501); 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); Reinforced Concrete Design* (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); 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); Essentials of Electricity (C. 327); Practical Radiophone Receiving (C. 328); Principles of Radiotelegraphy (C. 329); Electrical Engineering Mathematics (C. 330); Electric Welding (C. 335).

Engineering, Mechanical—Shop Arithmetic (C. 201A); Advanced Shop Mathematics (C. 201B); Mechanical Drawing; Sheet Metal Drafting; Statics; Dynamics; Elements of Mechanics (C. 206); Strength of Materials (C. 207); Mechanism (C. 208); Machine Design* (C. 1); 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); Steam Boilers (C. 216); Steam Engines (C. 217); Gas and Oil Engines (C. 219A); Gas Producers (C. 219B); Gas Engine Theory and Design (C. 219C); The Gasoline Automobile (C. 219D); Automotive Ignition Systems (C. 219G); The Gas Tractor (C. 219L); Refrigeration (C. 222); Heating and Ventilation (C. 223); Compressed Air (C. 225); 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 Draft-

ing (C. 243B); Cupola Practice (C. 272); Foundry Metallurgy (C. 274).

English—Elementary English (C. 1); English Grammar (C. 61); Practical English Review (C. 64); Intermediate English Composition (C. 2, Parts A and B); High School English Classics (C. 3); English Composition* (C. 5); English Composition* (C. 6); Composition of Technical Papers* (C. 8); Advanced Composition* (C. 7); The Short Story* (C. 16); General Survey of English Literature* (C. 51); General Survey of English Literature* (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 Composition* (C. 4A); The Teaching of Reading and Literature* (C. 4B); The Teaching of Language in the Intermediate and Grammar Grades and in the Rural Schools* (C. 20A); The Teaching of Literature and Reading in the Elementary and Rural Schools* (C. 20B); The Teaching of English to Foreigners* (C. 9); Modern Drama* (C. 35A); 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. 4); Scientific French* (C. 5); Grammar Review and Elementary 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); French Literature of the Nineteenth Century* (C. 25).

Geology and Geography—Mineralogy* (C. 1); Economic Geology* (C. 2); Physical Geography* (C. 3); Elementary Geology* (C. 4); 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); German Grammar Review and 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 A and B); History of German Language* (C. 31).

Greek—Elementary Greek* (C. 1); Xenophon's Anabasis* (C. 2); Homer's Iliad* (C. 3); Elementary Composition* (C. 5); 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 Officer's Work (C. 20); Public Health Nursing (C. 24).

Hebrew—Elementary Hebrew (C. 1); Elementary Hebrew (C. 2).

History—United States History (C. 1A); United States History (C. 1B); American History, 1760-1830* (C. 2); American History, 1830-1877* (C. 3); English History*, Pt. I (C. 6); English History*, Pt. II (C. 7); Modern European History*, Pt. I. (C. 8); Modern European History*, Pt. II. (C. 9); History of the Nineteenth Century*, Pt. I (C. 10); Medieval History* Part I (C. 12); Medieval History*, Pt. II (C. 13); Oriental and Greek History* (C. 20); Roman History* (C. 21); Modern European History, 1648-1848 (C. 87); Modern European History, 1848-1920 (C. 88.)

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); Study of Fabrics (C. 11); 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); Cotton Garments* (C. 22); Cooking for Rural Schools (C. 25); Sewing (C. 26).

Italian—Elementary Italian* (C. 1); Elementary Italian* (C. 2).

Latin—Elementary Latin* (C. 1); Caesar* (C. 2); Caesar (C. 2A); Cicero* (C. 3); Vergil's Aeneid* (C. 4);

Elementary Prose Composition* (C. 5A); Elementary Prose Composition* (C. 5B); Advanced Composition* (C. 6A); Advanced 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); Advanced High School Algebra (C. 40); Plane Trigonometry* (C. 5); University Algebra* (C. 6); Analytic Geometry* (C. 7); Elementary Calculus* (C. 8); Agricultural Mathematics* (C. 51); Commercial Arithmetic (C. 55); College Algebra for Commerce Students* (C. 6C); Commercial Algebra* (C. 56); Mathematics of Life Insurance* (C. 57, Parts A, B, and C); Projective Geometry* (C. 64); 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; Agricultural Arithmetic (C. 31); 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); Appreciation of Music* (C. 71c).

Pharmacy—Pharmacy* (C. 1, Parts A and B); Elementary Prescription Practice* (C. 20A); Prescription Practice,

Solid Preparations* (C. 20B); Liquid Preparations* (C. 20C); Advanced* (C. 21A); Advanced* (C. 21B); Prescription Incompatibility* (C. 21D); Pharmaceutical Technology* (C. 22A); Pharmaceutical Technology* (C. 22B); Pharmaceutical Technology* (C. 22C); Pharmaceutical Technology* (C. 22D); Alkaloidal Assay* (C. 23A); General Chemistry, Part A* (C. 3); Morphology and Classification of Flowering Plants* (C. 10); Drug Assaying* (C. 30); Pharmaceutical Chemical Analysis* (C. 40); Microscopical Examination of Food Products* (C. 45).

Philosophy—General Psychology* (C. 1); Ethics* (C. 10); Business Ethics* (C. 12).

Physical Education—Physical Education in Elementary Schools (C. 1); Physical Education in Secondary Schools (C. 2); Football* (C. 10); Basketball* (For men) (C. 20); Basketball* (For women) (C. 21); Track and Field Athletics* (C. 30).

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); Municipal Government in Europe and the United States* (C. 10); Voting Methods and Elections (C. 15).

Public Speaking—Elementary Speech Writing (C. 1); Composition of Public Addresses* (C. 10); Argumentation* (C. 12).

Pulp and Paper Manufacture—Preparation and Treatment of Wood Pulp (C. 245) (Complete Course); Manufacture of Mechanical Pulp (C. 245A); Manufacture of Sulphite Pulp (C. 245B); Manufacture of Soda Pulp (C. 245C); Manufacture of Sulphate Pulp (C. 245D).

Spanish—Elementary Spanish* (C. 1); Elementary Spanish* (C. 2); Intermediate Spanish* (C. 3); Intermediate Spanish* (C. 4); Advanced Spanish* (C. 5); Don Quijote* Part I (C. 7); Don Quijote* Part II (C. 8).

Teachers' Review Courses—Grammar and Elementary Composition (C. 63); Geography (C. 65); American Literature (C. 81); Elementary Algebra (C. 62); Physics (C. 87); English Literature (C. 91).

Extension Classes

While University Extension Classes are organized in various communities of the state—as far as it may be possible to do so where a sufficient number of persons having an interest in common in a given subject request such work—extensive class development has been effected only in cities of the first class. Special University Extension bulletins of Milwaukee classes are printed for distribution, announcing courses in business, engineering, and general or liberal studies offered in day and evening classes in Milwaukee.

Some of the courses given by class instruction involve university credit for properly qualified persons, while other courses are organized and given, independent of all curricular requirement for degrees, for definitely planned vocational or avocational purposes and ends.

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; and Triangular Debating Leagues. 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: Closed vs. Open Shop; Commission Plan of City Government; Initiative and Referendum; Municipal Home Rule; The Recall; and Unemployment Insurance. 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 worthwhile 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

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 type 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 accumulaton 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, commissions, 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, and Bureau of Community Development.

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.

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

ROBERT B. DUNCAN, CHIEF.

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, Se-

mitics 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 tne 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

FORD H. MACGREGOR, CHIEF.

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

WILLIAM H. DUDLEY, CHIEF.

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 4,500 reels of film and 175,000 slides to be loaned to schools for use in class work and for community gatherings. During the year ending July, 1923, regular service was extended to over 700 organizations in the state, a large proportion of these organizations having places on the thirteen circuits conducted.

BUREAU OF COMMUNITY DEVELOPMENT

EDGAR B. GORDON, CHIEF.

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 com-

munity 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.

Another movement which the Bureau is fostering because of its great community value is the Parent-Teacher Association. In some respects, it is the most effective means for the development of neighborhood life. 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.

POSTGRADUATE MEDICAL INSTRUCTION

The purpose of the courses offered in postgraduate medical instruction is to supply to physicians, practicing in a given locality, practical demonstrations of the newer methods of diagnosing and treating disease. Clinics are held at a hospital conveniently located, illustrated lectures are given, and opportunity is offered to the practicing physicians for consultations with specialists. Arrangements may be made for a single clinic and lecture or for a series of weekly, bi-weekly, or monthly clinics and lectures. Physicians enrolling for the course are charged a fee sufficient to cover part of the overhead expenses, the balance is paid from the small appropriation made for this work by the state legislature.

The three special subjects to be considered during this year are: Obstetrics, Child Welfare, and Nervous Diseases. A library of Continental, English, and American motion picture films has been secured to be used in connection with the lectures on obstetrics.

DEPARTMENT OF PHYSICAL EDUCATION

PROFESSORS T. E. JONES (CHAIRMAN), LOWMAN (DIRECTOR OF MEN'S GYMNASIUM), MEANWELL, TRILLING (DIRECTOR OF WOMEN'S GYMNASIUM); ASSOCIATE PROFESSORS ELSOM, H'DOUBLER, RYAN; ASSISTANT PROFESSORS CARNS, SCHLATTER, WESSON; INSTRUCTORS BERG, BURKE, BROWNELL, GALL, KEAY, KLEIN, MASLEY, MOSSCROP, RICE, STEINAUER, VAIL; ASSISTANTS BRADER, BRUMM, HITCHCOCK, LEITZ, LEVIS, MARTIN, NELSON, SMITH, TAUSCHE, TRAYNOR, 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, bathroom 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 gymnasium 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 skat-

ing 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, the periods per week for men are determined by the option elected. (Note options below.) The requirement for women is either four indoor or three outdoor periods.

Options relating to physical education and military science:

I. Physical Education—8 credits (4 hours per week, 4 semesters.)

II. Physical Education and Military Training—9 credits. (Physical Education, 2 hours per week, 4 semesters; Military Training, 3 hours per week, 4 semesters.) The additional credit may be substituted for an elective academic credit.

III. Military Training and Physical Education—8 credits. (Military Training, 3 hours per week, 4 semesters; Physical Education, 1 hour per week, 4 semesters.)

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 1921 the cost was about $10.

The gymnasium fee is $2.00 each semester, required of each freshman and sophomore and of all upper class men and women taking work in the department.

Exemptions and Deferments from Physical Training

All requests for exemption and postponements from physical training for men must be made at the office of the Director of the Men's Gymnasium and be approved by the Director. Women should apply to the Director of the Women's Gymnasium in Lathrop Hall.

I. Exemptions provided for by the rules and regulations of the University.
   1. Physically unfit, on medical certificate from the Department of Clinical Medicine of the University.
   2. Short Course for Pharmacy students, known as Pharmacy II.
   3. 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 careful performance of duty and that the course given elsewhere equals that given here.

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.

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.

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 students' 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 examination.

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

In 1924, assignments of classes for all women taking required or elective work in physical education will be made in the gymnasium, Lathrop Hall, on Monday and Tuesday, Sept. 29–30, between the hours of 10–12 and 2–5. Regular class work will begin on Wednesday, October 1.

All first year men in the College of Engineering will be assigned to options in physical education and military science by the committees of that college; representatives from the Military Science and Physical Education departments will be present during the period of registration.

All first and second year men of the College of Agriculture

will be assigned to options in physical education and military science by the committees of that college, the committees having representatives from the Physical Education and Military Science departments.

All first and sccond year men in the College of Letters and Science will be assigned to options in physical education and military science at the time of the regular registration, beginning Friday, September 19, for freshmen, and closing Tuesday evening, September 23rd. Representatives from the departments of Physical Education and Military Science will be present during this period of assignment of options.

Following the assignment of options, the men of all colleges will report to the office of the men's gymnasium (during the period September 19 to Saturday noon, September 27) for the assignment of regular classes and electives. All activities of the department of Physical Education for men will begin on Monday, September 29th. 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 six students representing Agriculture, Commerce, Engineering, Law, Letters and Science, and Medicine.

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.

Intra-mural and intercollegiate sports are under the government of the Athletic ouncil, 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 pp. 339ff.

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 additional 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.

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 anaysis and adaptation of activities to group and individual needs and capacities; (6) the prin-

ciples 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; (7) the principles of organization, management and administration.

The requirements for the professional course 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 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.

No university credit will be given in the special technique courses except to students taking the professional course in physical education or to students minoring in physical education.

State Teachers Certificate

Graduates 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.

See p. 318.

Courses of Instruction

Required for All Freshmen and Sophomores

1. Developmental Exercises. 1 or 2 cr. Prescribed for all freshmen and such sophomores as have not attained the requisite development. A study of the laws of personal and general hygiene is included in this course. 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 re-

quired 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.

The work in courses 1, 2, and 3, 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

For courses for professional students which are given under the jurisdiction of the School of Education, see pp. 339ff.

MILITARY SCIENCE

PROFESSOR OF MILITARY SCIENCE: MAJOR OTTO L. BRUNZELL, FIELD ARTILLERY, U.S.A., COMMANDANT; ASSISTANT PROFESSORS OF MILITARY SCIENCE MAJOR LESTER L. LAMPERT, INFANTRY, U.S.A., CAPTAIN STANLEY E. REINHART, FIELD ARTILLERY, U.S.A., CAPTAIN FRED G. BORDEN, SIGNAL CORPS, U.S.A., CAPTAIN JOSEPH H. COMSTOCK, INFANTRY, U.S.A., FIRST LIEUTENANT RICHARD Z. CRANE, ORDNANCE DEPARTMENT, U.S.A., FIRST LIEUTENANT ERIC A. ERICKSON, FIELD ARTILLERY, U.S.A., FIRST LIEUTENANT HARRY L. ROGERS, JR., INFANTRY, U.S.A., FIRST LIEUTENANT EDWIN M. SUTHERLAND, INFANTRY, U.S.A.; ASSISTANT TO THE COMMANDANT: STAFF SERGEANT WILLIAM G. ATKINS, U.S.A., RETIRED.

Object and Scope of Instruction

The object of the military instruction is to train 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 partly 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 to a certain extent in military science and tactics, to officer and intelligently lead the units of the large armies upon which the safety of the country will depend.

The courses in military training prepare for leadership in civil life as well as in the military service, for the same qualities are demanded in both. The tactful handling of men, the ability to cooperate with others, the organization of effort and resources are common factors of success in either military or civil life. Military training develops efficiency, patriotism, leadership and those qualities of manliness so essential in all walks of life.

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 non-commissioned officers shall participate in the administration and training and share in the responsibility thereof.

Rating as Distinguished College

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, 1916, 1920, 1921, 1922, 1923, is authorized to recommend each year two Honor Graduates of the Department for appointment as second lieutenants in the United States Army.

Registration

All male freshmen and sophomores are required to elect one of the following:

Options: I Physical Education—8 credits (4 hours per week, 4 semesters.)

II Physical Education and Military Training—9 credits. (Physical Education, 2 hours per week, 4 semesters; Military Training, 3 hours per week, 4 semesters) The additional credit may be substituted for an elective academic credit.

III Military Training and Physical Education—8 credits. (Military Training, 3 hours per week, 4 semesters; Physical Education, 1 hour per week, 4 semesters.)

They will then be assigned to companies and should, at this time, present any excuse which may operate to exempt them from military training or necessitate its deferment.

Exemptions

Exemptions are granted to the following:

(1) Foreigners not desiring to become citizens.
(2) The permanently physically unfit, on medical certificate from the University Clinic.
(3) Members of short course in Pharmacy.
(4) Normal school graduates and those who enter with sufficient advanced credit to give them junior or senior standing.
(5) Discharged commissioned officers of Army, Navy, or Marine Corps.
    (a) Men honorably discharged after six months or more service in Army, Navy, or Marine Corps.
    (b) Three months' service as an enlisted man in overseas service.
    (c) Four months' duty in the Service of Supply, or in training camps or schools in Europe.

Reserve Officers' Training Corps

The Department of Military Science and Tactics comprises Infantry, Field Artillery, Signal Corps, and Ordnance Units of the Reserve Officers' Training Corps, organized under the National Defense Act of June 3, 1916. This act provides for a progressive course of military training consisting of two years' basic and two years' advanced work. Three hours a week are required in the basic course.

Upon completion of the sophomore year of the basic course, those students who are selected for further military training by the President of the University and the Commandant 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 attend one summer camp of not more than six weeks' duration. Upon the execution of this agreement, the War Department furnishes to members of the advanced course, in addition to uniforms and equipment, commutation of subsistence at the rate of about $10 a month for twenty-one months. Students are paid at the rate of $21 a month while attending advanced course camps. All trans-

portation to and from the camp and the expenses at camp are paid by the government.

Upon 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 Officers' Reserve Corps, United States Army. The courses are elective for all students.

Basic Courses

1. Elementary Military Science, (All Units.) Yr. Infantry drill; rifle and pistol marksmanship; military hygiene; military courtesy and policy; lectures and demonstrations on artillery, signal communications, explosives, and individual equipment. Captain Comstock.

21. Sophomore Infantry. Yr. Infantry weapons (bayonet, automatic rifle, grenades;) musketry; command and leadership; scouting and patrolling; topography. Lieutenant Rogers.

22. Sophomore Field Artillery. Yr. Topography; command and leadership; gunnery; fire control instruments; minor tactics. Captain Reinhart, Lieutenant Erickson.

23. Sophomore Signal Corps. I; Same as 21 or 22. II; Topography; command and leadership; military telegraph; telephone and radio. Captain Borden.

24. Sophomore Ordnance. Yr. Same as 21 or 22.

Advanced Courses

These courses are considered as three credit elective courses and academic credit is granted accordingly at the rate of three credits per semester, or a total of twelve credits for the two years.

131. Junior Infantry. Yr. Field engineering; infantry weapons; minor tactics; leadership. Lieutenant Sutherland.

132. Junior Field Artillery. Yr. Field engineering; minor tactics; orientation; topography; gunnery; artillery material; motors; equitation. Lieutenant Erickson.

133. Junior Signal Corps. Yr. Signal Corps organization and tactics; telegraph, telephone and radio net construction; message centers, codes and ciphers; leadership. (Electrical

Engineering 154a-154b, College of Engineering.) Captain Borden and Mr. Lyon.

134. Junior Ordnance. Yr. Ordnance material; nomenclature; action, care and use. Military explosives; gun manufacture; optics and fire control instruments: ordnance field service; leadership. Lieutenant Crane.

140. Senior Military Science. Yr. (All units, Infantry, Field Artillery, Signal Corps, and Ordnance, in conjunction with 141, 142, 143, and 144) Military history and policy; military law; administration; minor tactics. Major Brunzell.

141. Senior Infantry. Yr. Minor tactics; musketry; leadership. Major Lampert.

142. Senior Field Artillery. Yr. Minor tactics reconnaissance; gunnery; artillery material; equitation; leadership. Captain Reinhart.

143. Senior Signal Corps. Yr. Minor tactics; leadership. (Electrical Engineering 155a-155b, College of Engineering.) Captain Borden and Mr. Lyon.

144. Senior Ordnance. Yr. Exterior and interior ballistics; gun design; optics and fire control instruments; explosives. (Mechanics 111-112, College of Engineering.) Professor Roark.

Uniforms, Equipment, Personnel, Organization, Rewards Special Units, etc.

Uniforms

Uniforms, made to measure, are furnished by the Government to all students in the military department free of charge. The uniform is made of the best quality of olive drab serge, with an attractive roll collar coat. All students entering the University for the first time and who elect military training are required to deposit $5.00, which will be returned to the student on completion of the course, and to sign an agreement to reimburse the University in case of loss to the University through failure to complete the course, or loss or damage to the uniform.

Equipment

The Federal Government has placed at the disposal of the University up to date equipment valued at $400,000 in small arms rifles; field artillery, guns, and howitzers of all cali-

bers from 75 m/m to 155 m/m, both tractor and horse drawn; signal corps equipment including radio telegraph and telephone communication; and ordnance equipment. A mounted detachment is maintained where instruction in horsemanship is given to those who desire to learn how to ride and for those who elect the field artillery unit.

Personnel

The instruction in the Department of Military Science is conducted by a corps of nine Regular Army officers selected by the War Department from the Infantry, Field Artillery, Signal Corps, and Ordnance Department, and in addition selected staff and technical non-commissioned officers of the various branches, highly trained in their profession.

Organization of the Corps

The cadet corps is organized as one regiment of infantry, one battalion of field artillery, one signal corps company, one ordnance company, and one band.

Cadet Officers

Cadet officers are appointed by the President of the University on the recommendation of the Commandant. Field and staff officers and captains are appointed from the senior class(second year advanced course). First and second lieutenants are appointed from the junior class (first year advanced course). Non-commissioned officers are appointed from the sophomore class (second year basic course). A prerequisite to enter the advanced course is the satisfactory completion of the basic course and selection for advanced military training by the President of the University on the recommendation of the Commandant.

Rewards Offered by the Military Department

A prize of $50.00 is awarded to the cadet colonel and cadet lieutenant-colonel, and $25.00 to each cadet major. The field and staff officers who have served four years with credit are presented with sabers and belts. Twenty-five men in the band, selected by the leader, are paid $15.00 per semester for their work in practice and for their appearance in the military exercises required of the band. Various prizes are given for military proficiency.

The freshmen during the month of May engage in two competitions, company and individual. The captain of the winning company receives a gold medal; the lieutenants, silver medals; and non-commissioned officers and the privates, bronze medals. A gold medal is awarded the winner of the individual competition; second and third places are awarded silver and bronze medals respectively. A gold medal, a silver medal, and a bronze medal are awarded the three best rifle shots and are competed for on the University range. Similar prizes are awarded in the pistol competitions. Commissions and prizes offered by the department are presented by the President of the University at the President's Review which is held at the end of the academic year.

Special Units

The President's Guard is an organization composed of the most military and best drilled cadets in the corps selected after competition in which the entire corps participates. To be selected as a member of the President's Guard is a high honor open to all students taking military training.

The Mounted Brigade is a detachment composed of those excelling in horsemanship. Its object is that of a highly trained, thoroughly equipped, and excellently mounted escort for which the horses and equipment are furnished by the Federal Government.

The University of Wisconsin Rifle Team has the highest standing in the Sixth Corps Area, having won the Sixth Corps rifle competition in 1921, 1922 and 1923, as well as the Chicago Tribune Trophy in 1923. This team is a member of the National Revolver and Rifle Association.

The University of Wisconsin Pistol Team is one of the best in the United States, having won fifteen out of eighteen competitions during the year 1923, and will this year become a member of the National Revolver and Rifle Association.

Military tournaments and horse shows are featured throughout the year.

The Military Ball is one of the prominent social activities of the University.

WASHBURN OBSERVATORY

GEORGE C. COMSTOCK, *Emeritus* PROFESSOR OF ASTRONOMY; JOEL STEBBINS, DIRECTOR AND PROFESSOR; C. M. HUFFER, ASSISTANT.

The Washburn Observatory was established in the year 1878 through the munificence of the late Governor 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 investigations of their orbits, 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, a systematic investigation of the parallaxes of all accessible stars which have large proper motions, and the photoelectric photometry of variable stars.

The principal instruments of the Observatory are:

An equatorially mounted telescope of 40 centimeters aperture, constructed by Alvan Clark & Sons, and provide 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, 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 mean time 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. 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 equating machine, a spherometer caliper, seismosscopes, 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 fourteen volumes, representing the more important work done, have been issued.

Students of sufficient technical attaintments 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 p. 160.

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 co-operate 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. 234.

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 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

C. P. WINSLOW (CHAIRMAN), BATEMAN, CURRAN, MISS GERRY, HAWLEY, HUBERT, HUMPHREY, HUNT, KOEHLER, MARKWARDT, RAWLING, RITTER, RUE, SHERRARD, TIEMANN, WELLS.

General Statement

The Forest Products Laboratory is a scientific institution engaged in industrial research for the Forest Service, United States Department of Agriculture, in cooperation with the University of Wisconsin. This research organization is engaged in studying problems bearing on the most efficient use of the products of the forest, and 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 investigation 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) Seasoning of Wood. Determination of best methods of air drying and kiln drying to eliminate losses; design and operation of dry kilns; studies of commercial kilns; physical properties of woods.

(3) Shipping Containers. Study of wooden and fiber shipping containers, with special reference to design and specifications to develop containers which will deliver the contents to the consumer in a satisfactory condition at a minimum total cost.

(4) Plywood, Glues and Laminated Stock. Study of plywood

manufacturing problems; strength and design of plywood; development and improvement of glues; 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.

(6) Researches on fungi which attack structural timbers with investigations aimed at practical means of prevention; the efficiency of various wood preserving processes and preservatives; fire proofing of wood and slow burning construction.

(7) Pulp and Paper. The suitability of woods for pulp, paper, and fiber specialties; studies in the chemistry and engineering of pulping and paper making processes; chemical and physical studies of pulps.

(8) Wood Technology. Identification of wood and the relation of the structure of wood to its properties.

(9) Technical Studies of Industries. Study of the economic utilization of wood; lumber grades and specifications; methods of measuring, manufacturing, and marketing logs, lumber and small dimension stock; development of uses of wood.

The lectures and research are offered by the staff of the laboratory to both undergraduates and graduates.

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 at a salary not exceeding $25 per month. 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. Students may choose one of the problems as major or minor work for a thesis for a degree.

Lecture and Laboratory Courses

A general course in forestry (1) open to all students is given during the first semester. This is followed in the second se-

mester by a technical course in wood technology (102) open to junior, senior, and graduate students and one on structural timbers (110) which is adapted particularly to junior, senior, and graduate engineers. An advanced course in forestry and utilization of wood is given during the first semester for those who desire a comprehensive and intensive survey of the field. One lecture course in the chemistry of wood utilization (103), including a description of industrial chemical processes of using wood as a raw material is given. Special research work can be arranged for graduate students. A course in pathology of wood (119) is given in cooperation with the Department of Plant Pathology during the first semester.

These courses do not supply the needs of students desiring to take up the study of forestry as a profession. Such students should enter one of the regular forestry schools.

FORESTRY AND WOOD TECHNOLOGY

LECTURERS TIEMANN, GERRY, HUBERT, HUMPHREY, HUNT, KOEHLER, MARKWARDT.

For Undergraduates and Graduates

1. Forestry. I; 2 cr. Mr. Tiemann.

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. Prerequisites: Mechanics 2 and 3. Mr. Markwardt, Mr. Koehler, Mr. Hunt, Mr. Humphrey.

111. Production and Utilization of Wood. I; 2 cr. Prerequisite. Forestry 1 or equivalent. Mr. Hubert, et al.

119. Diseases of Timber. See p. 435. Mr. Humphrey.

CHEMISTRY OF FOREST PRODUCTS

LECTURERS HAWLEY, BATEMAN, HUMPHREY, HUNT, RAWLING, RITTER, RUE, SHERRARD, WELLS.

For Undergraduates and Graduates

103. Industrial Chemistry Applied to Forest Products. 11; 2 cr. Prerequisites: Chemistry 120, 121. Mr. Hawley, Mr. Bateman, Mr. Sherrard, Mr. Rue, Mr. Ritter, Mr. Rawling.

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; carbohydrates and fermentation. Mr. Sherrard.

c. Wood distillation, wood extraction and terpenes. Mr. Hawley.

d. The chemical action of bacteria and fungi on carbohydrates. Mr. Humphrey.

e. Pulp and paper. Mr. Rue.

f. Wood preservation and glues. Mr. Hunt.

IN THE UNIVERSITY EXTENSION DIVISION

Several courses on various technical activities of the Forest Products Laboratory will be given. More specific announcements to be made by the Extension Division. Mr. Koehler, Mr. Curran.

SUMMER SESSION

SCOTT H. GOODNIGHT, DIRECTOR.

The Summer Session, originated twenty-six 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-sixth Summer Session of the University of Wisconsin opens June 30, 1924. The session lasts six weeks and closes August 8. In the Law School the session is ten weeks long, beginning June 23 and ending August 29.

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. 117ff.

Students who desire to graduate from the University and who 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 C. A. Smith, Bascom 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.

Correspondence relative to graduate work should be addressed to Dean C. S. Slichter, Bascom Hall. A special bulletin of the Graduate School will be mailed upon application.

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. Not all courses are open to auditors. In the Summer Session bulletin, which is issued in March, all courses are indicated as open, or not open to 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 199 of this catalogue.

Fees and Registration

The general fee for Summer Session, irrespective of the number of courses taken, is $22, except in the Law School (ten weeks) where the fee is $35.

Registration must precede entrance upon any part of the work of the session. Registration takes place Saturday, June 28. In the Law School, registration takes place on Saturday, June 21, only.

Students who continue work beyond the regular summer session must pay an additional fee of $3.25 per week.

For estimates of the expense of a student during a session, see page 97. 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.

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.

1923

October 24.
Professor Alexandre Moret.
"La Sepulture De Toutankhamon."

October 29.
Professor W. E. Castle.
"Heredity."

October 30, 31.
Professor Sir Paul Vinagradoff.
"The State as a Subject of Duties."
1. The Liabilities of the State as to Compensation for Damages.
2. The Control of Administrative Action by French and English Courts.

November 5.
Professor David M. Robinson.
"Ancient Classical Cities of Asia Minor."

November 6, 8.
Janet Harvey Kelman.
"Vital Experiments in India."
"Undercurrents of Thought in India."

December 3.
Dr. H. Gideon Wells.
"Human Cancer From the Standpoint of Heredity."

December 10.
Professor E. von Schulze-Gaevernitz.
"From World War to World Order."
"The Interdependence of World Economics."

DEGREES CONFERRED ON COMMENCEMENT DAY, 1923

COLLEGE OF LETTERS AND SCIENCE

Bachelor of Arts

Lois Addington
Ruth Emma Albee
Vera Madeline Albee
Flora Alcorn
Anne Ruth Alexander
Jacob Edward Alschuler
Lucia Pauline Ambrose
Pearl Amy Anderberg
Dorothy Vesta Anderson
Mildred Victoria Anderson
Vera Clara Anderson
Ida Dorothea Atkinson
Edgar Henry Auerswald
Grace Geraldine Austin
Ralph Emerson Axley
Vera Mae Babcock
*Alphons Eugene Bachhuber
Francis Philpott Bacon
Florence Eva Bailie
Mary Elizabeth Baird
Marion Childs Barber
Catherine Barry
Dorothy Ann Baxter
Minnie Dunn Beattie
Frederick Christian Beckmann
John Marshall Beffel, Jr.
Helen Kinsley Bell
*Charles Fayette Bellows
Esther Katharine Bellows
Harry Samuel Belman
Doris Louise Bennett
Helen Marian Berkwich
Otis Silas Bersing
†Herbert Frank Biersach
Florence Arnold Bingham
Paula Blank
John William Blattner
Marjorie May Boesch
Harvie James Boorman
*Herbert Joseph Bott
Phyllis Adele Bott
Sidney Millard Boyden
Margaret Elizabeth Brabant
Philip Brachman
James Lyman Brader
Rachel Hall Bradish
Kathryn Mary Brady
Golda Mary Brant
*Nathanael Pereles Breslauer
Lillian Gabriel Bresler
Alma Louise Bridgman
Albert Harlan Brown
Elinor Martha Brown
Robert Whitcomb Brown
Lucile Porter Buck
Ethel Gwendolyn Bundy
Carolyn Lee Burgess
Bertha Ehrman Burkhardt
Leona Florence Burkhardt
Eugenia Irene Burks
*Roland Willard Burt
*Amelia Burwell
*Julia Tormey Callahan
Norma Barbara Carl
Vera Carlisle
Vera Thomas Carlyle
Louis William Clattau
*Regina Cawley
Marion Cazier
Marianna Chandler
*Edwin James Chapman
Mary Everett Chase

*Defree conferred since Commencement 1923.
†Degree conferred March 7, 1923.

Mary Jeannott Chassee
Chi Hwang Chu
Hannah Frances Churchill
*Helen Harris Clark
Elizabeth Bertha Clausen
Haskell Eugene Coates
Gertrude Elsie Collins
*Howard Ridley Combacker
Erma Vesta Comstock
Marion Victoria Connor
Florence Anne Costigan
Dorothy Crain
Laurence William Cramer
Mary Craven
*Ezra Dormer Cristman
Dorothea Ann Culkin
Marian Gray Culver
*Sarah Sheldon Cummings
Edward Haines Currier
Agnes Dorothea Delaney
Harold Adelbert Denlinger
Muriel Katherine Deopker
Edna Catherine Dickes
Ruth Beatrice Dickover
*Melvin Charles Dishmaker
Lala Alice Dixon
Ellen Vivian Dollard
Dorothy Janet Dopp
Alice Louise Droppers
Madge Frances Dynes
*Vivien Lee Edwards
Miriam Katherine Efird
*La Verne Ethel Elleson
Richard Winfield Ellis
Frieda Margaret Elser
Louise Helen Elser
Bernice Jeanette Elver
Hans Frederick Emmerling
Margaret Priscilla Erbe
*Edgar Louis Erickson
Miriam Whittan Evans
Kenneth Stanley Fagg
*Louis Charles Feldman
Iris Sophronia Fellows
Dorothea Mary Fenelon
Olivia Primrose Fentress
Babeth Grace Fernberg
Alban Bernard Fiedler
*Susie Fisher
Ida Kathryn Fitzgibbons
Frederick Rodgers Flickinger
Lois Bertha Forcum
Emily Genevieve Francois
Edward Joseph Frawley
Harold Alfred Frey
Paul Edmond Friedrich
Albert Morse Fuller
Ruth Helen Fuller
Frances Evelyn Furst
Leslie Richards Gage
Alfred Galpin, Jr.
William McHard Gardner
Ailene Jeanette Geiger
Helen Henrietta Geller
*Rollin Brown Gettle
Hannah Mabel Gibbon
Theodore Markley Gilbert
Earle Francis Gill
John Fredrick Gilmore
Emilia Josephine Giryotas
Joseph Baird Gleason, Jr.
Pessie Gold
Alice Maud Goodell
Florence Brown Goodenow
C. Esther Goodyear
Carol Marston Goodyear
Eleanor Warren Graves
Ashton Carter Gregg
Horace Victory Gregory
Seth Harwood Gregory
Francis William Griffith
Karl Rudolf Natanael Grill
Edna Rose Groth
Pearl Elizabeth Grunstad
Helen Dorothy Gude
Mildred Emma Guentzel
Victor Guillemin, Jr.
Edwin Michael Cooley Guyer
Carol Gertrude Haasl
William Haber
Gertrude Jane Halladay
Jeanette Halverson
Lynne Harvey Halverson
Arthur Clay Hamilton
Doris Lorraine Hamilton
Harvey Hanlon
Theodore R. Hannon
Abner Hansen

*Degree conferred since Commencement 1923.

Julian Hanson
Gertrude Ruth Harley
Mildred Avanelle Harpster
Esther Jeanette Harris
Elizabeth Jane Hart
Frances Lucile Harvey
Gertrude Jewella Haven
Mildred Elene Hawks
Ellen Marie Hayes
Ramona Sarah Hayes
Lillian Blanche Hays
Williametta Sylva Hazard
George Brewster Hazen
Helen Margaret Heck
Gertrude Marie Heller
Edna Ida Hempe
Christopher Hendra
Hilda Ovidia Hendrickson
Edith Hess
Ruth Isabella Higley
Miles Carroll Hildreth
Harris Dale Hineline
David Herman Hintz
*Pearl Theodosia Corej Hirsig
Helen Hirth
*Vajen Eileen Hitz
*Frances Mildred Hodsdon
Henry A. Hofacker
Herman Miller Hoffman
*Mildred Elsie Hogan
Rudolph Libbert Hohlfeld
*Ray Edward Holcombe
*Frances Elizabeth Holford
Lyla A. Holt
*John Henry Holzman
*Margaret Mary Hoppenyan
Sarah Josephine Hornaday
Electra Lucille Hosmer
*Warren Sydney Hubbard
Frances Mary Hughes
Natalie Theodora Huhn
Katherine Hullinger
Valentine Eugenia Humphrey
Margaret Mary Hunter
*Helena Fuller Hutchens
Harry Johnson Ingold
Dora Virginia Ingraham
Esther Gertrude Jacobs
*Joseph Jantsch
*Lillian Bruce Jennings
Alfred Harold Jensen
Viola Leonora Jenson
Edward Wallace Johnson
Ethel Elizabeth Johnson
Marian Frances Johnson
Stella Cornelia Johnson
Dorothy Mae Jones
Enos Gray Jones
Genevieve Ross Jones
Katherine G. Jones
Geraldine Dorothy Kaeppel
Juan Kao
*Edgar Benjamin Kapp
Karl Francis Karel
Helen Harriett Kasbeer
Donald Montayne Kastler
Wilber Griffith Katz
*Janice Meredith Kauffman
Katherine E. Keen
*Florence Agnes Kellogg
Joseph Francis Kepple
*Margaret Elizabeth Kerr
Oscar Edward Kiessling
Margaret Andrews King
Elizabeth Kirk
*Gloria Blanche Kleist
Louella Holles Kneale
Alice May Knowles
Lawrence Gerald Koch
Ellinor Margaret Koehler
Otto August Koepp
Ruth Kotinsky
Dorothy Krebs
Julia Isabelle Kroner
Ella Louise Krueger
Albert Henry Lahmann
Leslie Francis Lamb
Clara Louise Lamson
*Gladys Amy Lane
Laura Godbey Lane
Sylvester F. Larson
*Harold Donald Laughlin
Mary Margaret Lawless
*Hans Will Lawrence
Dorothy Estelle Leader
Harriet Sybil Lewis
Ivanelle Clarice Lewis
Ralph Herbert Licking

*Degree conferred since Commencement 1923.

Julien Mandelert Lunney
Oneita Lutz
Washburn Stark Lyon
Lee McCandless
*Elizabeth Rose McCoy
Helen Marion McDonald
*Robert Paul McDonald
Gladys M. McFarland
Eleanor Dorothy McGinley
George E. McKinnis, Jr.
Irene Catherine McKone
Marion Barlass McLay
Mildred Cornelia McLemore
Eva S. McLeod
Frank William MacRavey
Cora Seville McReynolds
Beda Roberta Mackin
Florence Louise Magaurn
Karl Maier
Esther Florence Mainland
Ismael Villanueva Mallari
Evelyn Laura Maloney
Helen Jane Malsin
Seymour Lee Maltpress
Elgie Chester Marcks
Philip Butler Marquart
Helen Ervine Martner
Arthur Donald Marvin
Mary Jean Mavor
Grace Louise Maxcy
Edwin Mead
Liela Todd Mead
Wilhelmine Elizabeth Mead
Ann Louise Mendenhall
August Martin Meulemans
Catherine Marie Meyer
Dorothy Caroline Meyer
Estelle Brown Miller
Florence Vida Miller
Helen Marie Minch
Harold Edgar Mitchell
Jessie Marie Mitchell
Ralph Ray Moe
Marion Moehlenpah
Minette Alice Montgomery
Clara Louise Moore
George Winfred Moore
Madeline Lucille Moran
Mary Martha Moran
Robert Emmet Moroney
Ada Josephine Morris
Inez Evelyn Morrow
Alexander Erik Morstad
*Louise Patricia Moyer
Fenton Richard Muldowney
Evelyn Beatrice Mulhall
*Thenora Munson
Louis Ellsworth Nelson
Tyra H. Nelson
*Margaret Audrey Nethercott
Douglas Kinney Newell
Martha Nicolai
M. Iona Nimlos
Mary Ruthella Nimlos
Blanche Field Noer
Eleanor Mae Norton
Walter Edmund Nyhus
May Frances O'Connor
*Oscar Albert Olson
Karl R. Omsted
Laures Margret Owen
George Macdonald Parker
Cleo Maude Parsley
Dorothy Harris Patrick
Helen Virginia Patterson
Margaret Mary Patterson
Gertrude Emery Pearson
†Emily Marie Pendergast
Elizabeth Gordon Pennock
Seymour Frank Perchonck
Grace Marion Pflueger
Virginia Plattenburg
Ruth Pointer
Berenice B. Polasky
Helen Emily Pratt
Elise Diddrikke Preus
Hobart Candee Price
Marion Rebuschatis
Albert Clayton Rector
John Joseph Rellahan
Mildred Ruth Replinger
*John Porter Retzer
Robert Leonard Reynolds
Inez Jennette Richards
John Stanley Richards
John Willis Richards

*Degree conferred since Commencement 1923.
†Degree conferred March 7, 1923.

Louise Elliott Rickeman
Frances Isabelle Rimbach
Elsbeth Violet Rinder
Earl Livingstone Risberg
*Frederic Emanuel Risser
Richard Alexander Roberts
*Marion Dorothy Robinson
Dorothy Evelyn Roderick
Aimar Hermo Rollefson
Jeanette Hannah Rosenthal
*Frederick William Rosenstreter
Robert Doehne Rothenburg
Helen Rothschild
Margaret Leone Rowley
David Rozman
*Henry Scott Rubel
Margaret Adelaide Russell
Roger Bridgeford Russell
Katherine Yates Sanborn
Leone Frances Sander
*Walter George Sanders
*Eleanor Roberts Sanford
†Lucille Alicia Saris
John Hallock Sarles
*Benjamin Walker Saunders
*George Murdoch Saunders
Mildred Lillian Schaefer
*Ella Martha Schalk
*John Huston Schee
Ralph Scheinpflug
Florence Carolyne Schenck
Raymond Arthur Schidlo
Louise Augusta Schlichting
Esther Julia Schlimgen
Helen Elizabeth Schlosser
Myrtle Dorothy Schneider
Fred Schnell
Russell D. Schoenfeld
Maynard Michael Scholl
Annieta Harms Schroeder
Florence Marie Schroeder
Florence Catherine Schweizer
Liona Minnie Sellers
Marjorie Reum Severance
Joseph Cantwell Sexton
Helen Frances Schafer
Helen Frances Shaidnagle
Deborah Ione Shaner
Chia Liu Shao
*Herman Shapiro
Mary Beatrice Shear
Elsie Besley Sherman
Dorothy Sickels
Margaret Bour Sickels
Irmgard E. Siegmeyer
Lucille Simpson
*Claire Mildred Sires
Rodney Arthur Slagg
Aline Pary Smith
Carl Richard Smith
Doris Martha Smith
Edna Louise Smith
Ellen Wrenne Smith
Ermin A. Smith
*Phoebe Louise Smith
John Vania Spielmans
*Adolph William Sprain
Helen Aldyth Staudenmayer
Alice Marie Steenberg
Waldo Edward Steidtmann
Frances June Stein
Myron Ray Stevens
James Jewell Stewart
Robert Bruce Stewart
Helen Katherine Stillwill
Ethel Wagner Stockdale
Florence French Stolte
Maysie Stone
*Ruth Lynden Stott
Leona E. Stratz
Helen Elizabeth Stuckey
Edith Beatrice Suppiger
Tokitaro Suzuki
Miriam Aileen Swartz
Helen Margaret Swensen
Joel Swenson
Guy Kasten Tallmadge
William Joseph Tannewitz
Herbert Halliday Taylor, Jr.
John Cameron Thompson, Jr.
Florence Marie Thoren
*Clara Deborah Tigay
Mario Benjamin Tomsich
Norman Richard Torrison
Thomas Alanson Tredwell
Helen Trettien

*Degree conferred since Commencement 1923.
†Degree conferred March 7, 1923.

Isabel Janet Trotter
Frederick Newell Trowbridge
*Kathrin Marie Tufts
Beatrice Chouteau Turner
Katherine Elizabeth Turney
Elizabeth Sarah Tuttle
Kathleen Lucille Tyler
Elizabeth Sanders Updyke
Myron Edwin Van Ells
Blanche Adelia Vastine
*Ruth Elizabeth Wadmond
*Selma Wallesz
Bernadette Elizabeth Walsh
*Gilbert Emanuel Ward
Charles Picken Warren
†Elizabeth Weaver
Douglas Jenkyn Webb
Henrietta Hentze Webster
Albert William Weeks
Blanche Lucille Wehe
Ernest Albert Weinke
Aimee Lenice Weinstock
Della Cecil Westover
Julien Charles Whaley
Dorothy Vermilya Whipple
Ruth Virginia White
Winifred Wiggam
*Myrtle Agnes Wik
Louis William Wille
Howard Kline Willett
*Agnes Edna Wilson
*Solveig Elisabeth Winslow
Mary M. Wiswell
Leah Yabroff
Francis Everett Yerly
Erling Ylvisaker
Seth Charles Youngquist
Elsa Koenig Yunger
Helen Zielsdorf

Course in Commerce

Edward Augustus Abramofsky
Daniel Lawrence Allen
Harris Gibbs Allen
Elmer Walter Anderson
Orvin Henry Anderson
Harry Ferdinand Augustine
Victor Vern Axtell
*Arthur Aylward
Marion Eloise Ayres
Jennie Dynes Bailey
Mary Dynes Bailey
Harry William Balch
George William Baum
Walter Henry Baum
Marion Elias Benedict
Arthur Hjalmar Benson
Myron Clarence Bidwell
Everett Walter Birdlebough
Robert Irvine Blakeman, Jr.
Albert Edward Blum
Edison Morse Boerke
Martha Marie Boese
Edward Herbert Boning, Jr.
Peter Gregory Bonk
George Grant Bossard
Philip Christopher Branch
*Wesley W. Brandenburg
Lloyd Henry Branks
Donald Percy Breyer
Cecil DeWitt Brodt
Robert Lee Burney
James Clifford Buxton
Arthur Allen Cantwell
Fred Deane Cardinal
Charles Kenzie Carroll
George Henry Chamberlain
Lucius Peter Chase
Peter Victor Cheli
Lawrence Holcomb Clark
John Vincent Conlin
*Wilson McGinnis Cross
Gordon Crump
Francis Leroy Cusick
George Cudnall Davis
Marjorie Anne Delbridge
Elmer Solomon Dunkel
Robert Gilman Ely
Lawrence Earle Emmons
Henry Alfred Engler
Charles Robert Evenson
Louis Orlando Evenson
Elmer J. Fechner

*Degree conferred since Commencement 1923.
†Degree conferred March 7, 1923.

Orville Walter Felhaber
Katherine Felix
Edith Mildred Flinn
Lamont Erwin Fonteine
Donald Hyde Fowler
Walter Bernhard Franz
James Russell Frawley
Arthur Freytag
*Will Henry Fricker
Albert Henry Ganswindt
Elmer Raymond Gesteland
Myron Alexander Gibbon
Claude Raymond Giles
*Corrington Calhoun Gill
*Alfred Charles Goessling
Katherine Doris Goodhue
Robert Edgar Grashorn
Frederick Charles Greenwood
Sidney Myron Greiling
Norman Mortimer Halverson
*Hersey Hansen
Julia Anne Harrington
Veronica Mary Harrington
Robert Wayne Harvey
Richard Mayfield Headley
Wilbur James Heuer
Leslie Alexander Hill
George William Hinton
Leslie John Hoffman
Joseph Porter Hook
Milo Hopkins
Charles Louis Hughes
Gordon Arnold Huseby
Arthur Charles Inman
Elsie Marie Iversen
Ardin Llewelyn Johnson
Victor Francis Jungers
*Milton Albert Kaems
Sylvester George Kalley
Lloyd S. Kappers
Otto Frederick Kaufmann, Jr.
Alfred Ferdinand Kessler
Walter Stanley Kidder
Maude Marie Killam
Walter August Kirmse
*Galen Paul Kirscher
Harold Frederick Knowles
Oley Elmer Knutson
*Raymond John Koltes
Sidney James Lang
*Laroy Melvin Leean
*Arthur Carl Lemke
Angeline Genevieve Lins
John George Lubenau
Arleigh James Luther
Lawrence McDonald
William Grant MacGregor
Blanche Lowrie McKeever
William James Madden
Hildegarde Louise Maedje
Max Weinstein Mallin
Horace Perry Martin
George Mitchell Mason
*Claude Axtell Mears
Thomas Walter Melham
Adeline J. Meyer
Dudley John Mills
Peter Rodolph Moeller
*J. John Mokrejs
William England Montgomery
Katherine Mary Morrissey
Walter Andrew Mulvaney
Mary-Jeanette Nee
Manfred Nelson
Don Carlos Newcomb
Walter Nickel
Phillip Pickering Nolte
Einar John Norman
William Alfred Oakey
Paul John Okerstrom
Hjalmer Selmar Oyen
William John Pieh
Percy Lawrence Pratt
James Ralph
Eunice Rae Ransom
*Donald Everett Rathert
Margaret Amy Remington
*Harold Benedict Reyer
Karl Storrs Reynolds
Martin Andrew Rieschl
Virgil Henry Roick
Carl Albert Rossmeisel
George Paul Ruediger
Fred Ruffolo
Carl Ross Russell
*Edwin Wilfred Sanborn
Stanley Nicholas Schafer
Lester Kranklin Schekenberg

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John Mink Shafrin
Gladys Martha Shaw
*Reginald Mathison Shaw
John Wesley Shelhammer
Joseph Silverness
*John Alvin Sliwinski
Harold Clinton Smith
J. William Smith
*Alfred Christian Sorensen
George Edward Sprecher
George Oliver Stevens
Theodore Everett Stickle
John Dewey Swift
Robert Russell Symons
Gustav Kenneth Tebell
Julius William Thompson
Gordon Stuart Thomson
*Harvey Allan Thorson
Wilma Marie Trost
George Mackenzie Umbreit
William Robert Usher
Siguard Byron Utgaard
*Francis A. Vetter
*Gerhart Frederick Vetter
Shores Adelbert Walker
Herman Oscar Walther
Laurence Potter Warner
William James Webb
Carroll Weiler
*William Herman Wenzel
Ben C. White
Alice Rastetter Wilkens
Frank McKinley Williams
Kenneth Germain Williams
Herbert LuVerne Wolcott
Clinton R. Yapp
Lloyd John Yaudes
Helen Rose Zuehlke

Course in Journalism

Gertrude Ellen Adelt
Waldo William Batten
George Lloyd Bird
Bartel Benjamin Borchers
Dorothy Katherine Bowlby
*Sara Florence Bradford
Inez Almira Brayton
Bernice Lillian Bruns
Mildred Helene Busch
Mary Anne Cantrell
Marquis William Childs
Dorothy Grace Clare
Henry John Coerper, Jr.
Charles Noyes Demarest
Harold Frederick Diehm
Helene Dorman Foster
Thelma Marcella Fox
Roy LaVerne French
George Lowell Geiger
Ralph Joan Gibler
Robert Theodore Griebling
Pearl L. Hagens
George Washburn Harris
Anna Walter Hilpert
Halbert W. Hoard
Mary Alice James
Alice Louise Knoedler
Charles Julius Lewin
Portia Barnett Lugoff
Leslie Willard McClure
Edward Jerome McDonough
*James Early Ostrum
Kathryn Illeen Perry
Gladys Irene Petersen
Walter John Pfister
David Corvus Pickard
Harbeson Hickman Powell
Horace Breese Powell
*Marjorie Ann Ruff
Fern A. Shannon
Alice Merle Shaw
*Fred Seaton Siebert
Helen Frances Smallshaw
Marian Caldwell Strong
Hubert Force Townsend
Clare Anna Trier
*Cornelia Dorothea Vander Laan
Dane Eloise Vermilion
Dorothy Josephine Walters
Ethel Margaret Zimmerman

Course in Humanities

Margaret Emily Emmerling
Eleanor Bushnell Head
Dora Catherine Kenney
Susie Mary Sullivan

*Degree conferred since Commencement 1923.

Bachelor of Philosophy

Normal Course

*Louis John Albrecht
Violet Eleanor Anderson
*George Walter Baird
Ralph Ernest Balliette
*Louis Curtis Banker
Althea Elizabeth Betzer
Helen Marguerite Bohan
*Frances Rose Botsford
Joseph P. Burke
Jeannette Cavanagh
John Anthony Clark
Agnes Ann Currie
Marie Dresden
Albert August Elsner
Esther Frances Ethier
*Frank Carroll Fellows
Eleanor Jeanne Flynn
Stella Elizabeth Hasley
Arthur Carl Huebner
William Edwin Jerving
Eugene Augustus Jewett
Wilma Johnson
Doris Hertha Koeneman
*Herman William Kuehner
Joseph Bernard Layde
Olive McDermott
Ezra Albert Miller
Helen Beulah Morrison
*Theodore J. Oesau
Eva J. Olson
Margaret Ethel O'Neil
Harvey August Riebe
Josephine Edith Robinson
*Ethel Florence Schilling
Courtney Clarence Sherman
Carrie A. Swails
Richard Julian Van Tassel
Mabel Vivian Wood

General Course

†Lester William Conger
Elizabeth Miller J. Cordell
William Augustus Cornell
*Amil D. Coveyou
Rodger Cooke Crabtree
†Glenn Daelhousen
Julia Lorette Gale
Frank Eugene Gerhauser
Clyde Walter Gleason
Francis Sutherland Gombar
Lonnie Leander Grier
Lea Gunderson
Robert Austin Harris
Benjamin Franklin Heald
Ethel Elizabeth Humphrey
Elmer Benjamin Johnson
Silas Gaylord Johnson
*Walter Leroy Kuebler
Olive Clarissa Lean
*John Albert Leirich
*Harry Lee McMurry
Lila Elizabeth McNutt
*David John Mahoney
Harold William Merrill
Donald Simons Millman
Robert Floyd Morris
Wayne Lyman Morse
Francis Daniel O'Laughlin
*John Marshall Rae
Stephen Barnhardt Reichert
Alfred Rodner
*Robert James Will
Maud Willey

Bachelor of Science

Chemistry Course

Harry Eaton Carswell
Henry Hsueh-hai Chao
Elsa Henrietta Gimmler
Ralph Urban Gooding

*Degree conferred since Commencement 1923.
†Degree conferred March 7, 1923.

Arthur Albert Harwood
Henry Parker Higley
Bruce Watson Hubbard
Arthur Christian Krueger
Muller Ling-Hsuan Kung
*Yun Hua Lee
*Lester William Peterson
Holger Wurtz Rasmussen
Kathrine Griffith Rowland
Harvey Day Royce
Eva Margretha Sommers
George Robert Spangenberg
Tao-Yuan Tang
Inez Margaret Williams
Ward Donovan Young

Course in Applied Arts

Mariam Gordon Arey
Vivian Ellison Cheatham
Mary Esther Cooley
Lucile Nielsen Curtis
Kathryn Louise Doolittle
Martha Ayleen Groan
Irene Henry
Gertrude Maude Kehl
Helen Sarah McLandress
Julia Ann Ross
Leah Emma Steele
Frances Worsek Streets
Agnes Neubauer Tuttle
Grace Amelia Werth

Course in Industrial Education

Elroy William Bollinger
*Oscar Phelps Brown
Milton J. Cohler
*Rufus Benjamin Felten
Albert Carlyle Fishack
Howard V. Funk
Ralph Willis Sharp
*Frank Morris Treat
William Everett Warner
*Gerhard Edmund Zimmermann

Physical Education Course

Olga Fredrika Anderson
Romayne May Berryman
Bess Florence Blanding
Isabel LaVica Capps
Irene Albertine Clayton
Otto John Endres
Alma Jeanette Fenn
Hazel Mary Fish
Marjorie Elizabeth Fish
Florence Louise Hupprich
Frank Bantley Leitz
Mary Wilson Maxwell
Edith Evelyn Nelson
Helen Grace Paull
Helen Louise Rockwell
Phyllis Wright Tatman

Pharmacy Course

Ruby Ethel Anderson
Leroy Delos Edwards
Earle Edgar Gage
Harold George Hewitt
Norris J. Kellman
Louise Kathryn Maureaux
Karl Henry Rang
Joseph Schulkin

Medical Science Course

Rowe George Baker
Jacob Joseph Baratz
Douglas Bolton Bell
Adolphus Arthur Berger
Russell Conwell Bond
James Golden Curtin
*Leland C. Dietsch
Veronica Freitag Dolch

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Cecil Fay Dull
Harold Joseph Dvorak
Frank Samuelson Fellows
George Adolph Fiedler
Thomas Harold Flarity
Alvin Christian Florin
Filip Carolus Forsbeck
Karl Friedbacher
Michael Alexander Gertz
Archie Edward Gillis
Edwin Bertram Gute
Hubert Fish Harman
Clarence Oliver Heimdal
*Robert Lyndon Holcombe
James T. Lacey, Jr.
Norman Leshin
Robert John Lowth
Maurice Henry McCaffrey
Stuart Alexander McCormick
*Harry Joseph McGuire
*Edwin Daniel McKinley
*Mars L. Madsen
Gustave G. Mueller
William John Murphy
*Thomas Ochsner Nuzum
James Timothy O'Hora
Harold Allen Pinkerton
Frank Bertram Platt
*Fred C. Prehn
Charles Bernard Puestow
*Raymond Robert Rivard
Henry August Romberg
Rufus Anton Schneiders
Carl Edward Sibilsky
Abraham Sinaiko
Leonard Marshall Smith
William Marshall Smith
Dana Preston Stearns
*Roland Lewis Thompson
Fletcher Turgeson
Ernest Starr Watson
Wallace Beecher White
Anthony Edward Zalewski

Graduate in Pharmacy

Karl Henry Ackerman
Elbert David Dissmore
Leo Patrick Dunbar
Raymond Goetsch
Arthur Herman Hackendahl
William Douglas Heintz
*Forrest T. Kellman
Glenn DeWayne Kitch
Arthur John Krause
Jacob Palmer Lee
Hector Charles Marsh
Reginald John Price
John Peter Rocca
Elmer Ellsworth Schluessel
Hugo Peter Schreier
Albert John Seitz
Wyverne Grant Tanner

Bachelor of Music

Alice Fay Atherton
Ruth Beebe
Janet Mary Breitenbach
Ruby Evans Britts
Harriett Alma Dohr
Laura Duncan
Vera Alice Eastman
Merle Irene Gibbs
*Alice Maud Goodell
*Beatrice Holton
John Henry Jaquish
Frances Helen Landon
Dorothea Everest Levi
Margaret Page Moore
Marion Tetia Mosel
Deborah Fay Olds
A. Marie Peterson
Mabel Caroline Showers
Irma Lucile Wilson

Graduates from Course for Supervisor of Music

Myrtle Ruth Beane
Ellen Beckwith
Charlotte Marion Belscamper
Ruby Evans Britts

*Degree conferred since Commencement 1923.

Norval Luther Church
Lottie Mae Connell
Natalie Densmoor
*Mildred Gladys Duvie
Florence Marjorie Elston
Gertrude Miriam Erbe
Frances Helen Landon
Thyra S. Levandusky
Florence Milroy O'Boyle
Erle Leslie Oldridge
Mildred Odella Rowe
*Helen Carol Sherdahl
Mildred Elizabeth Stein

COLLEGE OF ENGINEERING

Bachelor of Science

Civil Engineering Course

Benjamin Franklin Aherns
Clifford Otto Bruden
Frank Ludwig Bumer
*Fritz Conway Christopherson
Robert Connolly
Clark Allan Dunn
Hugo Fred Engler
Alden Charles Fensel
Leo Valentine Garrity
Thomas Giuli
Sherman Baldwin Green
Ralph Norton Greenman
*Knut Henrichsen
La Verne Milton Hoffman
James Warren Johnson
Ted Roosevelt King
Earl Kingsley Loverud
Armon E. Mabry
James Everett Mackie
Benjamin Mariategui
I. Edward Marks
Everett Charles Meyers
*Virgil Luther Minear
Oswald J. Muegge
Thomas McMaster Niles
John Eliseus Noran
Robert Bruette Powell
Elmer Ahlers Price
Ora Clyde Rabbitt
Arthur Jacob Rabuck
Cecil Ruffell Russell
Lewis Adelbert Schmidt, Jr.
Ralph Shaw
*Ralph Ferdinand Spetz
George Phillip Steinmetz
Lionel Carl Tschudy
Clarence Benjamin Vilberg
*Roberto Pedro Villatuya
*Donald Oxford Walden
*Kenneth Russell Wicker
Arnold Schouer Zander
Karl Louis Zander

Mechanical Engineering Course

Thomas Leo Ahern
Roy Percy Anderson
Earl Randolph Brandau
*Joseph Orrin Branks
William Henry Carson, Jr.
William Elmore Coddo
John Herbert Dieterle
Frederick John Ellison
Morton Charles Frost
Alfred R. Ganther
Elberto Bernhardt Greenberger
George Harrison Gross
Edward Vincent Hanly
*Einar Falkenberg Isdahl
Lloyd Martin Johnson
John Eastman Joys
Roger William Kahlenberg
Eugene George Liebert
Donald Arthur McArthur
*Constant Hadji Michael
Norman McLeod Mitchell
Carl Oliver Nelson
Anthony Joseph Nerad
Sylvester Benjamin Ostrander

*Degree conferred since Commencement 1923.

Walter Richard Palechek
Walter Webster Palmer
Julian LeRoy Peterson
Rufus Seely Phillips
Walter Henry Porth
Reinhold Henry Raube
Lester Oswald Reichelt
Lincoln Alfred Rietow
Burd Joy Riggs
*Francis Arthur Rynders
Chester John Schmidt
Werner Irving Senger
*Charles Eugene Silver
John Slezak
Gordon Peter Spielman
Dwight Flack Stalker
Homar James Steel
Frederick Charles Stewart
*Sverre Strom
Edmund Pennel Strothman
*Charles John Vergin
Irving Luther Wade
Albert Livingston Walker
*William Miller Whelan
Frank Tisch Wolfe
Benjamin F. Wupper
Howard McKinley Zoerb

Electrical Engineering Course

Louis George Adam
Howard Hathaway Aiken
Paul John Barenscher
Herbert Henry Beck
Cecil Everett Betzer
Robert Bruce Bohman
Theron Adelbert Brown
Harold Bonneire Bryn
Peter John Burelbach
Neil George Cafferty
Lemore Wilder Clark
Robert Astley Clark, Jr.
Martin Pratt Colony
*Ira Robert Dohr
Robert William Eddy
Herbert Pulse Evans
Newell Ellsworth Franch
Hallett Hunt Germond
Tuttle Sherman Gildersleeve
*William Albert Gluesing
Robert Wayne Groot
Felix Gustav Herman Guenther
George Barrett Henry
Neal Dow Herrick
George Amos Hill
Alfred Nicholas Hoelz
Carl Edward Hoelz
Harold Wilhelm Holm
Frank Perry Hyer
Irving Burdette Johnson
Harold John Kersten
*Lyle Henry Kingston
John James Klak
Alvin Rietbrock Klann
William Morgan Knott
Edwin Otto Koerner
Raymond Arthur Krueger
Wareham Adam Kuehlthau
Kenneth Ellsworth Lamb
Noble Guy Larson
Joseph Conrad Lotter
Carroll Golden Mansfield
Adelbert George Newmann
Frederick William Nolte
Lynnford Lawrence Peterson
*Milton Julius Pfeiffer
John Arlington Potts
Clarence Fisher Rasmussen
Laurence Palmer Richmond
Arnold Sofus Rufsvold
Hugo Leonard Rusch
*Dominic Frank Schmit
John Wilfred Smart
Jerome Reed Steen
Milton Carl Steffen
Reeve Orno Strock
Fernando Sola Torino
Louis Martin Traiser
William Frederick Vander Kodde
Francis Lyle Webster
*Herbert Frederick Weckwerth
Wei Chou Wu
Felix William Zuelow

*Degree conferred since Commencement 1923.

Chemical Engineering Course

Kenneth Shirley Ames
Lloyd Grant Becker
*George Vincent Bennett
Victor Frederick Bittner
Thomas Richard Bogumill
Charles Lamar Class
Edwin DeWitt Coleman
David Harold Edwards
Asher Robert Ellis
William Trehane Ennor
Willis Moore Fanning
*David Sol Frank
John Parrmann Gerhauser
Frank Benjamin Golley
William Vilas Hanks
Merrill Elmore Hansen
Herbert Dick Hentzen
Eugene Charles Hotaling
Gardiner Green Howland
Orin Gordon Kaasa
Harry Dean Kitchen
Gustav Kuestermann Klaus
Alfred Samuel Krenz
Frank Kubosch
Robert Benjamin Lewis
Ernest Andrew McGraw
Charles Royce Merriman
Fred Meader Millington
John Kenneth Moorhead
Howard Elmer Morey
*Foster Sherriff Newell
Cleveland Ford Nixon
Walter Edward Pfleger
John William Roberts
Martin Rindlaub Robertson
Robert Link Rundorff
Carleton Leonard Schmidt
Harold Joseph Spielman
George Walter Tesch
Willard John Tesch
*Tsu Hsien Ting
Harold Heber Tobin
Wilson David Trueblood
Theodore Votteler
Kenneth Merl Watson
Raymond William Wengel

Mining Engineering Course

Carl Frank Buchner
Marion Dwight Harbaugh
Otto Berthold Herbener
Merwin Hayden Howes, Jr.
Carl Frithiof Larson
Guy Henry Larson
Carl William Leemhuis
*Ramon Gregorio Marquez
Francis H. Clive Scadden
Edward Christian Wolters
Joseph Frank Woschitz

COLLEGE OF AGRICULTURE

Bachelor of Science

Agriculture

Willard Benjamin Albert
Arthur Otto Albertz
*Andrew Beardsley Allison
Harold Arthur Allison
*James Wert Apker
George Larkin Arbuthnot
E. Glenn Ash
Thomas Walley Bacchus, Jr.
Harold Carlyle Baldwin
Samuel Robert Sloan Barclay
Walter David Bean
Roy Joseph Bibelhausen
Robert Oliver Blodgett
Clarence Herman Bonsach
Donald Ochsner Brace
Herbert Joseph Brown

*Degree conferred since Commencement 1923.

Maynard Wilson Brown
John L. Bumbalek
Lloyd Allen Burkey
Elmer Dennis Byrns
Arthur Michael Carmody
Homer Dwight Chapman
Edward Reynolds Chew, Jr.
Clarence Chambers Cravens
Joseph Forrest Crawford
Thomas Richard Daniels
Thomas Lozier Dartnell
John Stark Davis
Herbert Carl Dohrmann
Harry Lloyd Edwards
Lippert Spring Ellis
Wallace Parker Elmslie
Conrad Arnold Elvehjem
Donald John English
*Ivan Glen Fay
William Henry Frederick
Joseph Abraham Gahr
Harvey William Geilfuss
*Merwyn Augustin Haney
*William Albert Hartman
*Walter Charles Holzbog
Hans Golberg Horne
Whitford Lynn Huff
Howard Elmer Jamison
Clifford LaRoy Jaquith
Willard Perry Jones
*Raymond William Kanitz
Charles Reeve Kellum
Frank Alexander Kleinheinz
Raymond Clarence Klussendorf
Frank Joseph Kohn
Clarence Leonard Kutil
*Bertram Byron Langen
Herman Hyman Levitz
Charles Joseph McAleavy
Kenneth McConnell
Frank Dowling McKay
Lewis Campbell Mallow
George Eugene Marvin
Roger Pitkin Matteson
Harold H. Metcalf
Werner Paul Meyer
Francis Charles Miller
Ashley Vail Mills
Roger David Mitchell
Douglas McCord Moorhead
Walter Josef Mueller
Jean C. Nestor
Johnson M. Nimlos
John Cochrane Nisbet
Paul Odin Nyhus
George McGregor O'Connor
Lester John Oosterhuis
Ray Eugene Orr
Rudolf Pabst
*Harris Barnum
James Barney Perky
Clarence Percival Peterson
Arthur John Platten
George John Pribyl
Wayne Ramsay
Edwin Allworth Reeve
*Oliver Wendell Rewey
Augustin Rodolfo
Kenneth Metz Royer
Eldon Babcock Russell
Kenneth James Sayre
Kitchell Phelps Sayre
Edward George Schernecker
Manly Sharp
Ralph Jennings Sprague
Olaf Lawrence Stokstad
John Joseph Stream
Julius John Stueber
Edward Henry Templin
Albert Marcellus Ternes
Robert Cole Thomas
Bronson Dick Tolman
Eldyn Everette Van Lone
Melvin Carl Viste
Norman James Volk
Philip W. Voltz
*Marshall John Wallrich
Clarence Walter Weber
Guido Leo Weber
Alfred Weed
Irving Delwiche Weinfurther
Kenneth William Whereatt
Sheldon Redlin Wolfe
Catherine Tominson Woodman
Vilas Devald Young

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Home Economics Course

Marjorie Helen Adams
Helen Louise Agar
Mary Cameron Baldwin
Adela Marie Becken
Edith Bernice Black
Gladys Mary Boase
Charlotte Sophia Bremer
Florence Louella Brunsell
Alice Fairfax Bullock
Elizabeth Irene Byrns
Marjorie Myrtle Chase
Florence May Corbin
Edith Lucile Crane
Marion Louise Crane
Kathleen Sarah Dietrich
Mildred Martha Downie
Lola Miriam Dynes
*Miriam Mary Felix
Margaret Dorothea Fix
Miriam Helene French
Margaret Fritsche
Carolyn Emily Grams
Bernice Griffey
Mary Esther Hedley
Elsbeth Jean Hennecke
Gladys Iola Heuer
Mary Elsie Hodgson
Cora Margrethe Hoiby
*Edna Mildred Honeywell
Catherine Adele Horner
Dorothy Frances Horter
Helen Lillian Keator
Mary Alcie Kinslow
Mildred Hazel Klann
Florence Suzanne Klenert
Nelle Winifred Knilans
Ella Liner Lambert
Julia Anna Lingenfelder
Caroline Barnes Little
Hester Lucy Martin
Ethel Agnes Helen Metz
Elsie June Miles
Elizabeth Lewis Morrison
Mariam Sarah Morse
Jessie Morton
Mary Elizabeth Purcell
Mildred Mae Reynolds
Elizabeth M. Salter
Margaret Amalia Schwenker
Marjorie Virdelle Simpson
Sara Elizabeth Slater
Frances Claire Stack
Henriette Adelaide Suess
Frances Louise Thompson
*Helen Yoder Thompson
Marion Rosetta Thompson
Margaret Louise Toepfer
Elizabeth Leah Van Brimmer
Dorothy Ruth Van Holten
Merle Van Horn
Viola Birdelle White
Trixie Knight Whitehead
Sarah Emma Wismer
*Violet March Wolfram

Graduate in Agriculture

George Amundson
Roger Bawden
John George Becker
Elmer Edgar Bertolaet
*Eugene Harlan Biddick
Chester Crandall Ellicott
Edward Harold Gibson
Oscar August Hanke
Laurence Curtiss Janes
*David Caradoc Jones
Perry Marquette Miller
Grunow Otto Oleson
Eugenia Agnes Outhouse
James Philip Reichmann
Paul Willard Richerd
Allison William Sievers
Percival George Snyder
Deloris Alfred Strommen
Julia Sprague Whitefield

*Degree conferred since Commencement 1923.

LAW SCHOOL

Bachelor of Laws

Thomas Amlie
Wallace Andre Barr
†John Bernard
*Henry Martin Blume
Wendell Bonesteel
Christian Henry Bonnin
*Charles Patrick Cadigan
Sydney Clyde Charney
†Calvin Otis Crocker
*Walter Clare Crocker, Jr.
Carl Henry Daley
*Lorenzo Lyman Darling
†Percy Fred Dornbrook
*Lawrence Brewster Dunn
†Aloysius John Engelhard
*George Arthur Garrigan
†Emory Lester Grady
*Wallace Herbert Hahn
†Lambert Anthony Hansen
Lawrence Eugene Hart
*Carroll Rahn Heft
Merville Kummer Hobbs, Ph.B.
†Edward Ludwig Hoyer
*Clarence Joseph Hughes
†Leland Hyzer, B.A.
*Guy Arthur Johnson
†Gustave Joseph Keller
*George John Krebs, B.A.
Frank William Kuehl, B.A.
Ray Peter Lichtenwalner, B.A.
Clifford George Mathys, B.A.
*Rainhold Molzow
†Frederick Washington Nelson, B.A.
†John Leonard Nesbit
*Harold Raymond Neubauer
†Orin Isaac Newton
Henry Cooper Oakey
*Harold Henry Paul
†Ernest Herman Pett
Patrick Gerald Powers, Ph.B.
*John Binford Randolph
Charles Davis Rohr, B.A.
Herbert Solveson Roswell, B.A.
†Herman Carl Runge
*Aaron Scheinfeld
†Harold Claire Smith
*Rodney Costello Welsh
James Hugo Wegener, B.A.
†Allen Whelan
*Walter Arthur Williams, B.A.
*Frederick Adelbert Zielsky

Certificate

*Roy Victor Ahlstrom
*Charles John Bareis
*Bruce Marty Blum, B.A.
†Henry Martin Blume
*Edward Hubert Borgelt
*Egbert Bird Bundy
†Calvin Otis Crocker
†Carl Henry Daley
†Lorenzo Lyman Darling
*Lawrence Brewster Dunn
Leo Joseph Federer
*James Maurice Fitzgibbons, B.A.
William Peter Fortune, Jr., B.A.
*Frank Pilling Fosgate
George Arthur Garrigan, B.A.
Wallace Herbert Hahn
Carroll Rahn Heft
*Herbert Frederick Holscher, B.A.
*Joseph Jackson Hopkins
Clarence Joseph Hughes
George John Krebs, B.A.
Floyd J. Monk
†Frederick Washington Nelson, B.A.
Harold Raymond Neubauer
Ambrose Benjamin Nutt, B.A.
Harold Henry Paul

†Degree conferred March 7, 1923.
†Degree conferred since January, 1923.
*Certificate granted since Commencement, 1923.
†Certificate granted since January, 1923.

Martin Raymond Paulsen
†Ernest Herman Pelt
Joseph Harold Pleck, B.A.
*Emery John Porter, B.A.
*John Porter Retzer
Aaron Scheinfeld
Edward William Schenk
Fred Carl Seibold, B.A.
Rodney Costello Welsh, B.A.
Walter Arthur Williams, B.A.
Frederick Adelbert Zielsky

GRADUATE SCHOOL

Master of Arts

*Pauline Alford, B.A.
*Florence N. Allem, B.A.
V. Dewey Annakin, B.A.
*Robert Witbeck Babcock, B.A.
Josephine Davis Banta, M.A
Muriel Catherine Batz, B.A.
Donald Menzies Bennett, B.A.
Edward Earl Bennett, B.A.
*Mary Ellen Blair, B.A.
Lawrence Randall Boies, B.A.
Katherine Lucille Brenke, B.A.
Lydia Lawrence Brown, B.A.
Janet Lowrie Brownlee, B.A.
Leonidas Hamlin Bunyan, B.S.
*Ethel Beatrice Callahan, B.A.
Anna Mabel Campbell, B.A.
Lester Jesse Cappon, B.A.
*Marie Louise Carns, B.A.
Margaret Frances Chapman, B.A.
*Georgiana Irene Clark, Ph.B.
Mary Virginia Clarke, B.A.
Nils Ylvisaker Clauson, B.A.
Elizabeth Mary Coburn, B.A.
George Herbert Conant, B.A.
Helen Josephine Crump, B.A.
*Alice Marie Day, B.A.
John Richard Degerstedt, B.A.
Alice Beatrice Doyle, B.A.
Robert Taylor Dunstan, B.A.
*Emma Charlotte Dumke, B.A.
Reinhold Otto Ebert, B.A.
*Gregory Michael Endres, B.A.
Olive Siemann Fattic, B.A.
Olive Caroline Fish, B.A.
Elizabeth Mildred Fisher, B.A.
Rebecca Punchard Flint, B.A.
Sonya Forthal, B.A.
Una Meredith French, B.A.
Merle Robb Gallup, B.A.
Irving Goldberg, B.A.
*Lowell Pierce Goodrich, B.A.
*Helen Crandall Goodspeed, B.S.
*Giles Wilkeson Gray, B.A.
Lulu Grosh, B.A.
*Selma Steinfort Gryce, B.L.
Adolph Theodore Haentzschel, B.A.
Edward Everett Hale, B.A.
Myra Susan Harker, B.A.
Francis Herkomer Herrick, B.A.
Otto Adam Herzog, B.A.
Hattie Gertrude Hicks, B.A.
Sara Hogg, B. A.
*Ernest Jonas Holsinger, B.A.
*Edith Hoppin, B.A.
Leora Marie Howard, B.A.
Lucille Marie Hubbard
*Jerome Case Jackson, B.A.
Raymond Charles James, B.A.
*Dwight Trefts John, B.A.
Gratia Rosalia Kjerland, B.A.
*Leo Henry Kohl, B.A.
*Nadia Levitin, B.A.
*Ralph Clark Limber, B.A.
Kwoh Chuin Liu, B.A.
Catherine Meade McCabe, B.A.
Mildred Morse McConnell, B.A.
*Arthur Lloyd McLean, B.A.
Marion Lee MacQueen, M.A.
William Blair MacQueen, B.A.
*Charles Christian Martin, B.A.
Dorothy Massey, B.A.
*Nelle Miller, B.A.

*Degree conferred since Commencement 1923.

*Henry Calvin Mohler, B.A.
Margaret Burling Mott, B.A.
May Elizabeth Murphy, B.A.
*Anton Napoli, B.A.
*Petrus Johannes Naude, M.S.
Annie Neal, B.A.
Bernice Elva Newton, B.A.
*Harriet Ann Newton, B.A.
Della Burgess O'Geran, B.A.
Herbert Theodore Olander, B.A.
Wayland Osgood, B.A.
Jeanne Germaine Palisse, B.A.
Orlie Anna Haggerty Pell, B.A.
Gordon Greene Pierson, B.A.
*Helen Loudora Pohle, B.A.
John Edmund Powell, B.A.
Margaret Betz Powers, B.A.
Evelyn Warwick Preston, B.A.
Thomas Vincent Pruitt, B.A.
*Mary Esson Reid, B.A.
*Robert Ernest Rettger, B.A.
Olive Marie Riker, B.A.
Ruth Evelyn Robertson, B.A.
Edna Davis Romig, B.A.
Lousene G. Rousseau, B.A.
*Clarmae Budde Rowley, B.A.
*Elmer Ernst Sauer, B.A.
Emma Johanna Schulze, B.A.
*Leo George Schussman, Ph.B.
Kenneth Scott, B.A.
*Luada Eleanor Severance, B.A.
Robert Boies Sharpe, B.A.
Jabir Shibli, B.A.
*Annalee Shortridge, B.A.
*Leland Morton Shout, B.A.
*Diana Lenore Sime, Ph.B.
James Reid Sterritt, B.A.
*Emma Vera Strong, B.A.
Marian Agnes Stuart, B.A.
*Shang-Chi Su, B.A.
Helen Leila Sumption, B.A.
*Oscar Sigvart Swenumson, B.A.
Richard Clarence Thauer, B.A.
Ethel Margaret Thornbury, B.A.
*Clarence Gilbert Trachte, B.A.
Frances Vandervoort Tripp, B.A.
Esther Weightman, B.Ed.
*Doris Berger Welles B.A.
*Ruth Naomi Wenzelmann, B.S.
Orris Otto White, B.A.
Clara Florence Wigder, B.A.
Mary Isabel Winslow, B.A.
Lloyd Leo Withrow, B.A.
*Helen Leland Witmer, B.A.
Samuel Abraham Wofsy, B.A.
*Ella Lucille Wood, B.A.
George Emery Wood, B.A.
Helen Wood, B.A.
Ralph Hereld Wood, B.A.

Master of Science

Harvey Gerald Ahrens, B.S.
Franklin James Bacon, B.S.
Robert Percival Bartholomew, B.S.
Harold Mayo F. Behenman, B.A.
Otto Earl Benell, B.S.
Anthony Berg, B.S.
Archie Black, B.S.
Sherwood Buckstaff, B.S.
Charles David Byrne, B.S.
Arthur M. Carmody, B.S.
*Alta Cass, Ph.B.
Henry Hsueh-hai Chao, B.S.
William Clark Child, B.A.
Gladys Emerson Cook, B.A.
James McKee Coyner, B.A.
*Beulah Dahle, B.S.
Bernice Frances Dodge, B.S.
Bernhard Paul Domogalla, B.S.
William Franklin Dove, B.S.
Eugene Tolman Drake, B.S.
*Anna Elizabeth Drotning, B.S.
Neva Helen Drummond, B.A.
William George Evans, B.S.
Louis Carl Fleck, B.S.
Filip Carolus Forsbeck, B.S.
George Henry Foster, B.S.
Russell Elwell Frost, B.S.
Oscar Henry Gerhardt, B.S.
Leroy Conrad Glass, B.S.
Alexander A. Granovsky, B.S.

*Degree conferred since Commencement, 1923.

Lionel Hibbert Hamilton, B.S.
Gerald Heebink, B.S.
Esther Helen Heisig, B.S.
Karl Lyle Helwig, B.S.
Harold Eugene Henke, B.A.
Louis Albert Henke, B.S.
Garold Clairmont Jenison, B.S.
Glenn Llewellyn Jenkins, B.S.
Herman Heald Kahlenberg, B.S.
Florence Mary King, B.S.
Michael William Klein, B.A.
Charles Clyde Knight, B.S.
*Otto August Koepp, B.A.
*Wendell Frichioff Kumlien, B.A.
*Muller Ling-Hsuan Kung, B.S.
*Wilbur Arthur Lazier, B.S.
Andrew William Lathrop, B.S.
Samuel Lepkovsky, B.S.
Carl Clarence Lindegren, B.S.
John Samuel Lingenfelter, BA.
Marion Lamont Lingenfelter, B.A.
Karl Paul Link, B.S.
James Anderson Lounsbury, B.A.
Hsieh Chun Lu, B.S.
Alfred Dexter Ludden, B.S.
Robert Ervie McConnell, B.S.
Oscar Conrad Magistad, B.S.
Villiers Willson Meloche, B.S.
*Vern G. Milum, B.S.
Earle Lindsay Moffitt, B.S.
Gustav Gottlieb Mueller, B. S.
Howard Graybill Niesley, B.S.
Brynjulv H. Nissen, B.S.
Christian Percival Norgord, B.S.
Wilfred Gladstone Payne, Ph.B.
William Henry Pierre, B. S.
Guy Arthur Ramsdell, B.S.
Eugene Joseph Rankin, B.S.
Walter McLendon Redfearn, B.S.
Frances Marie Sawyer, B.S.
Emil Gustave Schmidt, B.S.
*Theodora Shaw, B.A.
Matthew Hsiung Ching Shen, B.S.
Kwei-Ling Shi, B.S.
Toshisuke Shimizu, B.S.
Donald Putney Smith, B.S.
Earl Stanley Snyder, B.A.
Joseph Arnold Staidl, B.S.
*Alfred Joaquin Stamm, B.S.
Dewey George Steel, B.S.
*Bruno Adam Stein, B.S.
Henry Stevens, B.S.
Jesse Watson Stevens, B.S.
*Walter Hobart Swanson, B.S.
William Sentman Taylor, Ph.D.
Norbert Carl Trauba, B.A.
Edgar Fred Vestal, B.S.
*Jan Augusto Viljoen, B.S.
Harold Francis Wakefield, B.A.
Arthur LeRoy Walker, B.S.
Marion Newman Walker, B.S.
Philip Jenkins Webster, B.S.
Mary Savilla Wenger, B.A.
Stephen Francis Whearty, Jr., Ch.E.
Joe Russell Whitaker, B.S.
*Howard Thornton Wilson, B.S.
*Clinton Raymond Wiseman, B.S.
Beatrix Lanore Wood, B.A.
Mabel Florence Wood, B.A.
Clarence Henry Woodmansee, B.A.

CIVIL ENGINEERING

Rufino Ramos, B.S.
Shou Shen, B.S.
Charles Eugene Wheeler, Jr., B.S.

MECHANICAL ENGINEERING

Grover C. Wilson, B.S.

ELECTRICAL ENGINEERING

Clarence Alois Andree, B.S.
Pow Dong Chang, B.S.
Tsu-Kiang Sheng, B.S.

*Degree conferred since Commencement 1923.

CHEMICAL ENGINEERING

Honore Clinton Hubbard, B.S. Roland Andrew Ragatz, B.S.

Civil Engineer

Albert Larsen, B.S. Andrew Hudberg, B.S.

Mechanical Engineer

Charles Ives Corp, M.S. *Willis Raymond Woolrich, B.S.

Chemical Engineer

Dean Brown Becker, B.S.

Engineer of Mines

George John Barker, B.S. Edwin Roy Shorey, B.S.

Master of Philosophy

*William Tait Anderson. Ph.B.
Richard John Burke, Ph.B.
Franklin Chester Chillrud, Ph.B.
Bessie Eva Edsall, Ph.B.
*Edward Herman Hinterberg, Ph.B.
*Roy Kenneth Johnston, B.A.
Everett Frank Patten, Ph.B.
Harvey August Riege, Ph.B.
*Ella Cora Schuldt, Ph.B.
Charles Rose White, Ph.B.

Doctor of Philosophy

Swaminath Subrahmanya Aiyar, M.S. (University of Wisconsin) Bangalore, India
Chemistry of Forest Products, Organic Chemistry, and Physical Chemistry
A study of the distribution of methoxyl in the products of different treatment of wood

*John Carl Andressohn, M.A. (University of Wisconsin) Milwaukee
German and History
Ancestry and early life of Godfrey of Bouillon

Eustaquio Genaro Aquino, M.A. (Yale University) Pamplona, Cagayan, P. I.
Agricultural Economics, Economics, and Political Science
The agricultural legislation of the Philippine Islands

Roland Martin Bethpe, M.S. (University of Wisconsin) Elkhart Lake
Agricultural Chemistry, Physiological Chemistry and Organic Chemistry
The inorganic relations in the body tissues of rats on various deficient diets

*Ray Irwin Baker, M.A. (University of Wisconsin) Concordia, Kansas
Sociology, Political Science and Education
Changes in the size of American families

*Degree conferred since commencement 1923.

Orvin Richard Brunkow, M.S. (University of Wisconsin) Darlington
Agricultural Chemistry, Agricultural Bacteriology and Organic Chemistry
A study of the influence of inoculation upon the sauerkraut fermentation

Howard Newton Calderwood, Jr., B.S., (University of Kansas) Madison
Chemistry of Forest Products and Chemical Engineering
An examination of the dissolved tar obtained from the destructive distillation of hard maple (Acer saccharum Marsh.)

Ko-Kuei Chen, B.S (University of Wisconsin) Shanghai, China
Physiology and Physiological Chemistry
Experimental atrophy of muscle

Frederic LeRoy Conover, B.A. (University of Wisconsin) Madison
Inorganic Chemistry and Geology
The behavior of certain oxides and silicates with carbon tetrachloride

Emily Smith Dexter, M.A. (University of Wisconsin) Elroy
Education and Psychology
Inter-relationships between mental functions

Frank Leslie Duley, M.A. (University of Wisconsin) Columbia, Mo.
Soils and Botany
The relation between the response of field crops to liming and the amount of different forms of calcium in the soil

Paul Exel Clarence Eke, M.S. (University of Wisconsin) Bruce
Agricultural Economics, Political Science, and Psychology
The history of agriculture in Rusk County, Wisconsin

Hurley Fellows, M.S. (University of Wisconsin) Hoff, Ore.
Plant Pathology, Botany and Economic Entomology
The relation of growth in the potato tuber to the potato scab disease

Clyde Miser Ferrell, B.A. (University of Wisconsin) Carrollton, Ohio
History and Political Science
The Massachusets colonial agents in England

Garnet Wolsey Forster, M.S. (University of Wisconsin) Madison
Agricultural Economics and Economics
Land prices and land speculation in the Bluegrass Region of Kentucky

Carl Emmit Frick, M.A. (Ohio State University) Akron, Ohio
Inorganic Chemistry and Organic Chemistry
The action of selenium oxychloride on certain unsaturated hydrocarbons

George Harold Godfrey, M.S. (Iowa State University)
Washington, D. C.
Plant Pathology, Botany and Genetics
Effect of temperature and moisture on root-knot, and on its organism, Heterodera radicicola (Greef) Muller

Robert Whitmore Goss, M.S. (Michigan Agricultural College)
Fall River, Mass.
Plant Pathology, Agricultural Bacteriology and Botany
Relation of environment and other factors to potato wilt caused by Fusarium oxysporum

*Waldo Ernest Grimes, B.S. (Kansas State Agricultural College)
Manhattan, Kansas
Agricultural Economics and History
Measures on income from farming

Frank Gregory Hall, M.A. (University of Wisconsin) Madison
Zoology and Physiology
Functions of the swim bladder of fishes

Horace James Harper, M.S. (Iowa State College) Madison
Soils and Inorganic Chemistry
The determination of nitrates and ammonia in soils

Ernest Everett Hubert, M.S. (University of Montana) Madison
Plant Pathology and Botany
Studies on the decay of wood

Albert Woodward Jamison, M.S. (Princeton University) Urbana, Ill.
Agricultural Economics and Economics
The agriculture of Illinois

John Donald Jenkins, M.S. (University of Wisconsin) Portland, Ore.
Physical Chemistry, Inorganic Chemistry, and Chemical Engineering
A study of the factors influencing the velocity of crystallization of substances from supersaturated solutions

Sarah Winifred Jennings, M.A. (University of Wisconsin)
Dallas Center, Iowa
Latin and English
Catullus: A stylistic study

Rolf Thorlief Johannesen, B.A. (University of Wisconsin) Delavan
Ancient History and Political Science
Timgad: A study in the social and economic history of a Roman provincial town in Africa

Morley Allen Jull, M.S. (McGill University) Quebec, Canada
Genetics and Zoology
The relation of antecedent egg production to the sex ratio of the domestic fowl

*Degree conferred since commencement 1923.

Arlington Colton Krause, M.A. (University of Wisconsin) Green Bay
General Chemistry and Organic Chemistry
I. A study of the compounds of molybdic and tungstic acids with some organic nitrogen bases
II. The system of ortho-boric acid and pyridine

Alfred Larson, B.A. (University of Wisconsin) Wausau
Agricultural Bacteriology and Pathology
The use of ultraviolet rays in the production of antigens

Chauncey Depew Leake, M.S. (University of Wisconsin) Madison
Physiology, Pharmacology, and Physiological Chemistry
Factors indicating reduced oxidation in certain blood vascular changes; with special reference to morphine and certain types of experimental pneumonias

Virgil Porter Lee, M.A. (University of Texas) Rochester, Tex.
Agricultural Economics and Economics
The need and present facilities for middle-term agricultural credit

John Watson Logan, M.A. (University of Wisconsin) Newman, Ga.
Greek and Latin
The Wisconsin papyri, Numbers I, XII, XXI, XXIII, XXXVII, XXXVIII

Harlan Linneus McCracken, M.A. (Penn College) Oskaloosa, Iowa
Economics and Sociology
Commodity theories of economic crises

Maud Esther McPherson, M.A. (George Washington University) Washington, D. C.
English and Spanish
Figures of speech in the English poems of Milton

John Metschl, M.A. (University of Wisconsin) Milwaukee
Chemistry, Chemical Engineering, and Physics
The supersaturation of gases in water and certain organic liquids

Charles Ernest Millar, M.S. (University of Illinois) East Lansing, Mich.
Soils, Chemistry and Agronomy
A comparative study of virgin and depleted soils

*John Brooks Moore, M.A. (University of Washington) Ann Arbor, Mich.
English and Philosophy
The development of the comic and the realistic in English drama from the beginning to 1600

*Degree conferred since commencement 1923.

Clarence Weinert Muehlberger, M.S. (University of Wisconsin) Hammond, Ind.
Inorganic Chemistry and Pharmacology
I. The products of the reaction of selenium dioxide with the hydrohalogen acids
II. The toxicity of selenium dioxide

Ray V. Murphy, M.S. (University of Wisconsin) Bloomington, Ill.
Physical Chemistry, Physics and Inorganic Chemistry
Conductivity studies on colloids

Elmer Martin Nelson, M.S. (University of Wisconsin) Madison
Agricultural Chemistry and Organic Chemistry
The properties of vitamine A

Lewis Lomax Nettleton, M.S. (University of Wisconsin) Nampa, Ida.
Physics and Mathematical Physics
A study of apparent molecular diameters by ionization methods

Gerardo Offimaria Ocfemia, M.S. (University of the Philippines) Guinobatan, Albay, P. I.
Plant Pathology, Botany and Agricultural Bacteriology
A study of the Helminthosporium disease of rice occurring in the Southern United States and in the Philippines

Llewellyn Bradley Parsons, M.S. (University of Wisconsin) Madison
Physical Chemistry, Organic Chemistry and Chemical Engineering
A study of the effect of small concentrations of water on certain chemical reactions

*Walter Ernest Paulson, Ph.B. (University of Wisconsin) Hollandale
Agricultural Economics and Political Science
The marketing of Door County cherries

*Luther Appel Pflueger, M.A. (University of Indiana) Crystal Lake, Ill.
Romance Languages and German
Voltaire's relations to English Literature

Charles Steven Reddy, M.S. (University of Wisconsin) Madison
Plant Pathology and Agricultural Bacteriology
The black bundle disease of corn

Mary Elizabeth Reid, B.A. (University of Wisconsin) Oconomowoc
Botany and Organic Chemistry
The quantitative relations of carbohydrates to nitrogen in tomato cuttings in determining the regeneration of roots and shoots

*Degree conferred since commencement 1923.

Regina Stockhausen Riker, M.A. (Mount Holyoke College) Madison
Botany and Organic Chemistry
Studies on the substitution of calcium, sodium, rubidium, and caesium for potassium in the growth of Hubbard squash, white spine cucumber and Japanese buckwheat

Ethel Ronzoni, M.A. (Columbia University) St. Louis, Mo.
Physiology and Anatomy
Acid-base equilibrium of the blood in exercise

Ralph Leslie Rutherford, M.S. (University of Alberta)
Edmonton, Alberta, Canada
Geology and Inorganic Chemistry
Geology of the Saunders Creek and Nordegg coal areas

Benjamin Johannes Smit, M.S. (University of Wisconsin)
Reitz, South Africa
Dairy Husbandry, Agricultural Chemistry, and Agricultural Bacteriology
The fishy flavor of butter

Govan N. Stroman, M.S. (University of Wisconsin) Uvalde, Tex.
Genetics, Agronomy and Botany
Genetics relations of chlorophyll and anthocyanin seedling characters in maize

*Waldo Schumacher, M.A. (Ohio State University) Pandora, Ohio
Political Science, History and Sociology
The direct primary in Wisconsin

Nicanor Gregorio Teodoro, M.S. (University of Wisconsin)
Santa Cruz, P. I.
Plant Pathology, Botany and Agricultural Bacteriology
A study of a Macrosporium disease of onions

William Russell Tylor, M.A. (University of Wisconsin) Madison
Sociology and Economics
The natural increase of contemporary peoples

*Floyd Lamar Vaughan, M.A. (University of Texas) Providence, R. I.
Economics and Political Science
Economics of our patent system

Louisa Viola Walker, M.A. (Columbia University) Milwaukee
Latin and Education
Latin of current periodicals and newspapers

Andrew Thomas Weaver, M.A. (University of Wisconsin) Madison
Experimental studies in vocal expression

*Colin Gilchrist Welles, M.S. (University of Wisconsin) Milwaukee
Botany and Plant Pathology
Taxonomic studies on the genus Cercospora

*Degree conferred since commencement 1923.

Robert Crozier Williamson, B.A. (University of Wisconsin) Madison
Physics, Mathematical Physics and Mathematics
The ionization of potassium vapor by ultraviolet light

Robert Vernon Williamson, M.S. (University of Wisconsin) Madison
Physical Chemistry and Inoragnic Chemistry
A study of the factors influencing the rate of absorption and equilibrium of carbon dioxide in alkaline solutions

Frederick Wood, M. A. (University of Wisconsin) Madison
Applied Mathematics and Mathematical Physics
Group-velocity and the propagation of disturbances in dispersive media

William Wodin Yapp, M.S. (University of Illinois) Urbana, Ill.
Genetics, Zoology and Animal Husbandry)
A dimension-weight index for cattle

Fred Roy Yoder, M.A. (University of North Carolina) Hickory, N. C.
Sociology and Agricultural Economics
The social aspects of farm tenancy in the United States

HONORARY DEGREES

Doctor of Science

The Svedberg, Professor in the University of Upsala, Upsala, Sweden.

Doctor of Letters

John Matthews Manly, Professor of English, University of Chicago, Chicago, Illinois.

Edward Potts Cheyney, Professor of History, University of Pennsylvania, Philadelphia, Pennsylvania.

Doctor of Laws

E. Ray Stevens, Judge of the Ninth Judicial Circuit of Wisconsin, Madison, Wisconsin.

Richard Theodore Ely, Professor of Economics, University of Wisconsin, Madison, Wisconsin.

GRADUATION HONORS

Honors for Theses

College of Letters and Science

Pearl Amy Anderberg Mathematics
Geometry in a discontinuous compass plane

Orvin Henry Anderson — Commerce
Analysis of financial statements of the General Motors Corporation

George Grant Bossard — Commerce
The handling of the personnel from the standpoint of management

Alma Louise Bridgman — Economics
The experience of the commonwealth of Australia with compulsory arbitration

Marquis William Childs — Journalism
Organization and later development of the United Press Associations

Dorothea Ann Culkin — English
George William Russel ("A.E.") A study of a man and a philosophy

Harold Alfred Frey — Economics
The socialization of industry in Germany since the armistice

Albert Morse Fuller — Botany
The Wisconsin Rubus species in the section Eubatus

William Haber — Economics
The United Brotherhood of Carpenters and Joiners: A study of conservative trade unionism

Oscar Edward Kiessling — Sociology
The part-time continuation school in Wisconsin

Ruth Kotkinsky — French
The theatre d'amour in French drama (Racine, Marivaux, Musset, Porto-Riche)

Martha Nicolai — German
Goethe's Weltanschauung im Faust und Wilhelm Meister

John Joseph Rellahan — Economics
The nature of a reasonable return upon railway investments

Robert Leonard Reynolds — History
A comparative study of the Letters of Sidonius and the History of the Franks by Gregory of Tours

Lester Franklin Schenkenberg — Commerce
Volume of classified advertising lineage as a barometer of business

Fred Schnell — History
German public opinion in regard to the American occupation at Coblenz

Rodney Arthur Slagg — Botany
Botany teaching in Wisconsin

Frances Josephine Wocasek Streets — Applied Arts
The illustration of scientific manuscripts

George Mackenzie Umbreit — Commerce
Reserve accounts of the United States Steel Corporation

Herman Oscar Walther — Commerce
Real Estate mortgage bonds

Maud Willey — Mathematics
Hyperbolic geometry from an analytic standpoint

College of Agriculture

Maynard Wilson Brown — Agricultural Journalism
Editorials that develop agriculture—being a study of the editorials in Wallace's Farmer

Gladys Iola Heuer — Home Economics
The loss of dry matter and certain mineral elements in cooking vegetables

STUDENTS

GRADUATES

Fellows and Scholars

[2] Second Semester.
[1] First Semester.

*Haley, Joseph Boyd — *Elberton, Ga.*
Ph.D., University of Wisconsin
Albert Markham Memorial Graduate Traveling Fellow

[1]Ammon, Ralph E. — *Madison*
B.S., University of Illinois
Scholar in Agricultural Journalism

[1] Arbuthnot, Mabel Florence — *Janesville*
B.A., Milton College — Milton College Scholar (Latin)

Bacon, Franklin James — *Madison*
M.S., University of Wisconsin — Hollister Fellow in Pharmacy

Bennett, Doris Louise — *Madison*
B.A., University of Wisconsin
Scholar in Romance Languages

Berg, Anthony — *Morgantown, W. Va.*
M.S., University of Wisconsin
Honorary Fellow in Plant Pathology

Bird, George Lloyd — *Meadville, Pa.*
B.A., University of Wisconsin — Scholar in Journalism

Bischoff, Fritz E. — *Milwaukee*
M.S., University of Wisconsin — Du Pont Fellow in Chemistry

Blodgett, Forest Milo — *Ithaca, N. Y.*
Ph.D., Cornell University
Honorary Fellow in Plant Pathology

Brandsmark, Anna — *Neenah*
B.S., Beloit College — Beloit College Scholar (Bacteriology)

Brooks, Albert Nelson — *Cincinnati, Ohio*
B. A., University of Cincinnati — Scholar in Plant Pathology

Buchner, Carl Frank — *Mayville*
B S., University of Wisconsin — Fellow in Mining Engineering

Bulger, Charles L. — *Akron, Ohio*
M.A., University of Wisconsin — Fellow in German

* Not in residence.

[1] Burns, Helen Jean — *Clay Center, Neb.*
B.A., Nebraska Wesleyan University
Scholar in European History

Campbell, Anna Mabel — *Kansas City, Mo.*
M.A., University of Wisconsin — Scholar in Economics
Cape, Jane — *Madison*
B.S., University of Wisconsin — Fellow in Home Economics
[2] Chapman, Homer Dwight — *Darlington*
B.S., University of Wisconsin — Industrial Fellow in Soils
Chapman, Margaret Frances — *Milwaukee*
M.A., University of Wisconsin — Fellow in Mathematics
Dellinger, John Grant — *Madison*
B. A., University of Wisconsin
A. J. Marschall Fellow in Pharmacy
Dowling, Philip Herschel — *Madison*
M.A., University of Wisconsin — Fellow in Physics
Elliott, Foster Floyd — *Eubank, Ky.*
M.S., University of Illinois — Fellow in Economics
Elmslie, Wallace Parker — *Milwaukee*
B.S., University of Wisconsin
Scholar in Agricultural Chemistry
Fang, Thomé Hsuin — *Tung-chen Hsien, China*
M.A., University of Wisconsin — Fellow in Philosophy
Ferguson, Philip Moss — *Waco, Tex.*
C.E., University of Texas — Scholar in Civil Engineering
Fulton, Helen Louise — *Corvallis, Ore.*
M.S., University of Washington
Fellow in Agricultural Bacteriology
Gilchrist, Grace Gertrude — *Bristol, England*
B.S., Bristol University
Honorary Fellow in Plant Pathology
Hall, Esther Marguerite — *Franklin, Ind.*
M. A., University of Wisconsin — Fellow in American History
Hamley, Elmer George — *Ripon*
B.A., Ripon College — Ripon College Scholar (Sociology)
[2] Hawk, Herbert Clayton — *Monrovia, Kans.*
M.S., Montana Agricultural College
Scholar in European History
Hays, Lillian B. — *Richland Center*
B.A., University of Wisconsin — Scholar in English
Hewitt, Harold George — *Milwaukee*
B. S., University of Wisconsin — Hollister Fellow in Pharmacy
Hisaw, Frederick Lee — *Manhattan, Kans.*
M.A., University of Missouri — Fellow in Zoology
Hopkins, Clark — *New Haven, Conn.*
B.A. Yale University
Charles Kendall Adams Fellow in Greek
Jenison, Garold Clairmont — *Allerton, Ia.*
M.S., University of Wisconsin
Fritsche Brothers Fellow in Pharmacy
Johnson, George Fiske — *Powell, Ohio*
M.S., University of Wisconsin
Fellow in Agricultural Economics

Kennedy, Grace Agnes *Waukesha*
B.A., Carroll College Carroll College Scholar (Mathematics)
Koehler, Walter Allos *Madison*
M.S., University of Illinois Scholar in Chemistry
[1] Kohler, William Andrew *Port Royal, La.*
M.A., University of Michigan Scholar in Economics
Kraemer, Elmer Otto *Madison*
B.S., University of Wisconsin Fellow in Chemistry
Laird, Harold Remington *Madison*
B.A., University of Wisconsin Scholar in Physics
Larson, Guy H. *Forrestville*
B.S., University of Wisconsin Scholar in Mining Engineering
Link, Karl Paul *La Porte, Ind.*
M.S., University of Wisconsin
Fellow in Agricultural Chemistry
Liu, Kwoh Chuin wls. *Nanking, China*
M.A., University of Wisconsin Scholar in Philosophy
Livingston, Walter Ross *Claremont, Calif.*
M.A., University of Missouri Fellow in European History
McConnell, Mildred Morse *Fond du Lac*
M.A., University of Wisconsin Fellow in Latin
MacRavey, Frank William *Madison*
B.A., University of Wisconsin Fellow in Romance Languages
Magistad, Oscar Conrad *Forestville*
M.S., University of Wisconsin
National Fertilizer Association Research Fellow (Soils)
Murray, Eugene Francis *Richmond, Ind.*
B.A., Earlham College Scholar in Political Science
Nelson, Martin Johan se *Madison*
B.A., Luther College Fellow in Education
Nettels, Curtis Putnam *Topeka, Kans.*
M.A., University of Wisconsin
Charles Kendall Adams Fellow in Modern History
Noer, Oyvind Juul *Madison*
B.S., University of Wisconsin
Milwaukee Sewerage Commission Industrial Fellow (Soils)
Odell, Alfred Taylor *Liberty, S. C*
M.A., University of Virginia
Mary M. Adams Fellow in English
Owen, Forrest Vern *Ogden, Utah*
M.S., Oregon Agricultural College Fellow in Genetics
Pierre, William Henry *Brussels*
M.S., University of Wisconsin Scholar in Soils
Pratt, Sarah Whittlesey *Kansas City, Mo.*
B.A., Milwaukee Downer College
Milwaukee Downer College Scholar (Economics)
Rang, Karl Henry *Oshkosh*
B.S., University of Wisconsin
American Pharmacy Association Scholar in Pharmacy

[2] Reilly, Edward Ernest *Guelph, Ont., Canada*
B.S. Toronto University
Honorary Fellow in Agricultural Economics
Rintelman, William Llewelyn *Menomonee Falls*
B.A., Lawrence College Newport Fellow in Pharmacy
Royer, Kenneth Metz *Elgin, Ill.*
B.S.,University of Wisconsin
Industrial Fellow, International Milk Dealers' Association (Dairy Husbandry)
Rundorff, Robert Link *Burlington, Iowa*
B.S., University of Wisconsin
Wisconsin Gas Association Fellow in Chemical Engineering
Saleski, Else Matilde *Three Lakes*
M.A., Cornell University Vogel Fellow in German
[2] Schmidt, David *Yorktown, Va.*
Ph.D., Rutgers College
Honorary Fellow in Botany and Agronomy
Schnell, Fred *Portage*
B.A., University of Wisconsin Scholar in American History
Scott, Inez Gertrude *Anita, N. D.*
M.A., University of Minnesota Fellow in Greek
Shapard, Marjorie Lee *Shelbyville, Tenn.*
B.A., Vanderbilt University
Mary M. Adams Fellow in English
Shaw, Ralph *Madison*
B.S., University of Wisconsin Scholar in Civil Engineering
Smith, Alfred *Davis, Cal.*
M.A., Wittenberg College Honorary Fellow in Soils
Stone, Estelle Ruth se *Milwaukee*
B.A., University of Wisconsin
School of Education Fellow in Mathematics
Sullivan, Susie Mary *Marshfield*
B.A., University of Wisconsin Scholar in Classics
Tester, Allen Crawford *Madison*
M.A., Kansas University Fellow in Geology
Thomas, Byron Henry *Oakland, Cal.*
B.S., University of California Scholar in Animal Husbandry
Turney-High, Henry Halbert *Baton Rouge, La.*
B.A., St. Stephen's College Fellow in Sociology
Vacquier, Tatiana *Madison*
Graduate, The Women's High Courses of Petrograd
Crane Fellow in Romance Languages
[2] Waddell, James *Milestone, Sask., Canada*
M S., Iowa State College Scholar in Animal Husbandry
Watson, Kenneth Merle *Mauston*
B.S., University of Wisconsin Fellow in Chemical Engineering
Weinstein, Arthur I. *Roxbury, Mass.*
M.S., Connecticut Agricultural College Fellow in Botany
Wiley, Clarence Alton *Austin, Tex.*
M.A., University of Texas Fellow in Economics

Willbrand, Irma Louise — *St. Charles, Mo.*
B.A., University of Missouri — Pabst Fellow in German
Wood, Elwin Grant — *Pullman, Wash.*
B.S., State College of Washington
Scholar in Agricultural Economics

OTHER GRADUATES

Abegg, Fred Anton — *Portland, Ore.*
M.S., Syracuse University — Genetics
Acton, Hul-Cee Marcus — *Glasgow, Ky.*
M.A., University of Wisconsin — Romance Languages
Adams, Elmer Wade — *Madison*
M.S., University of Illinois — Chemistry
Addoms, Ruth Margery — *Brooklyn, N. Y.*
M.A., Wellesley College — Botany
Albert, Willard Benjamin — *Madison*
B.S., University of Wisconsin — Agronomy
Albertz, Hugo William — *Watertown*
M.S., University of Wisconsin — Agronomy
Albertz, Max Henry — *Madison*
M.A., University of Wisconsin — Agricultural Economics
Albjerg, Victor — *Fergus Falls, Minn*
B.A., University of Minnesota — History
Allin, Bushrod Warren — *Madison*
B.S., University of Wisconsin — Agricultural Economics
Anderson, Dorothy Vesta — *Milwaukee*
B.A., University of Wisconsin — French
Anderson, Elda Emma — *Green Lake*
B.A., Ripon College — Physics
Arbuthnot, George L. — *Janesville*
B.S., University of Wisconsin — Agricultural Engineering
Atherton, Alice Fay — *Albany*
B.M., University of Wisconsin
Austin, Jessie Mayverne — *Chicago, Ill.*
B. A., Beloit College — Economics
Babcock, Rodney Whittemore — *Madison*
M.A., University of Wisconsin — Mathematical Physics
Bacon, Roger Orlando — *Ann Arbor, Mich.*
B A., University of Denver — History
Baechler, Roy Herman — *Fountain City*
B.S., University of Wisconsin — Chemistry
Bahadur, Mohindra — *Hyderbad, Decan, India*
M.S., University of Wisconsin — Plant Pathology
Baird, Parker Karns — *Madison*
M.A., Ohio State University — Chemistry
Baker, Oscar Robert — *St. Croix Falls*
B.S., University of Wisconsin — Agricultural Economics
Bakken, Henry Harrison — *Mt. Horeb*
B.A., University of Wisconsin — Agricultural Economics

Barenscher, Paul John — *Milwaukee*
B.S., University of Wisconsin — Electrical Engineering

Barnes, John — *Cedar Falls, Iowa*
M.A., Northwestern University — Speech

Barrett, William Gladstone — *Williamstown, Ontario, Canada*
B.S., Queens University — Geology

Bartholomew, Robert Percival — *Madison*
M.S., University of Wisconsin — Soils

Bassuener, Reynold Oliver m — *Sheboygan Falls*
B.A., Lawrence College — Physiology

Baumer, Arthur Thomas — *Milwaukee*
B.S., Bucknell University — Metallurgy

Beaver, Howard Tichenor — *Trinidad, Colo.*
M.A., University of Wisconsin — Economics

Beglinger, Harold Fred m — *Oshkosh*
B.S., University of Wisconsin — Medicine

Bennett, Carlyle Wilson — *East Lansing, Mich.*
M.S., Michigan Agricultural College — Plant Pathology

Bennett, Edward Earl — *Madison*
M.A., University of Wisconsin — History

Best, Anna Lillian — *Manhattan, Kansas*
B.S., Kansas State College — Speech

Birong, Anna Loraine — *Madison*
B.A., University of Wisconsin — Zoology

Black, Allen Jay se — *Valparaiso, Ind.*
B.A., Valparaiso University — Education

Blanco, Henry — *Madison*
B.D., Presbyterian Seminary of Kentucky — Romance Languages

Black, Archie — *Madison*
M.S., University of Wisconsin — Agricultural Chemistry

Blanchard, John David — *Madison*
M.A., University of Wisconsin — Economics

Bliss, Myrtie Rundlett — *Green Bay*
B.S., University of Wisconsin — Accounting

Blotz-Perkins, Elizabeth Margaret — *Madison*
B.A., Lawrence College — Zoology

Bodensieck, Anne Marie — *Charles City, Iowa*
M.A., University of Wisconsin — Romance Languages

Bohlman, Herbert William — *Kaukauna*
M.A., University of Wisconsin — Economics

Bollinger, John Romeo se — *Cochrane*
M.S., South Dakota State College — Animal Husbandry

Bond, Eugene Ayres — *Madison*
B.A., University of Wisconsin — English

Bonzelet, Gertrude Louise — *Madison*
Ph.B., University of Wisconsin — French

Borchers, Irma Theresa — *Madison*
B.A., University of Wisconsin — Geology

Bott, Phyllis Adele	*Milwaukee*
B.A., University of Wisconsin	Chemistry
Boyden, Alan Arthur	*Madison*
B.A., University of Wisconsin	Zoology
Boyden, Mabel Josephine Gregg	*Madison*
M.A., University of Wisconsin	Zoology
Bradbury, Dorothy	*Topeka, Kan.*
M.A., University of Wisconsin	Botany
Brandeis, Elizabeth	*Washington, D. C.*
B.A., Radcliffe College	Economics
Bray, George August	*Waukesha*
B.A., Carroll College	Economics
Bray, Mark Wilder	*Madison*
M.S., University of Minnesota	Chemistry
Brewer, Aubrey Keith	*Richland Center*
M.S., University of Wisconsin	Chemistry
Briggs, Alfred Warren	*Morrison, Ill.*
B.S., University of Illinois	Economics
Brooks, John	*E. Boston, Mass.*
M.A., University of Wisconsin	Romance Languages
Brouse, Don	*Madison*
B.S., Purdue University	Chemical Engineering
Brown, Nona Bernice se	*Madison*
B.A., University of Missouri	Physical Education
Brown, Ralph Hall	*Ayer, Mass.*
B.S., University of Pennsylvania	Geography
Brunsvold, Bernice Cornelia	*Beloit*
B.A., Beloit College	Latin
Buck, Flora	*Omaha, Neb.*
M.A., University of Wisconsin	German
Buckstaff, Sherwood	*Oshkosh*
M.S., University of Wisconsin	Geology
Buley, R. Carlyle	*Madison*
M.A., Indiana University	History
Bunyan, Leonidas Hamlin	*Colchester, Conn.*
M.A., University of Wisconsin	Mathematics
Burdick, Clifford Leslie	*Milton*
M.A., Emmanuel College, Michigan	Geology
Burke, Mead m	*Madison*
B.A., University of Wisconsin	Medicine
Burke, Richard John se	*Madison*
Ph.M., University of Wisconsin	Education
Butterworth, Joseph	*Madison*
M.A., Brown University	English
Byrns, Elizabeth Irene	*Madison*
B.S., University of Wisconsin	Home Economics
Calder, Grace Julia	*Chippewa Falls*
B.A., Macalester College	English
Calderwood, Ana Enke	*Madison*
Ph.B., University of Chicago	

Caldwell, James Ralston — *Philadelphia, Pa.*
B.A., Princeton University — English
Cargill, Miriam Ayer — *Valley Falls, R. I.*
B.S., Rhode Island State College — Botany
Carlile, Amos Benjamin se — *Mound City, Kans.*
B.S., Kansas State Teachers College — Education
Carlson, Margery Claire — *La Salle, Ill.*
M.S., University of Wisconsin — Botany
Carns, Marie Louise m — *Knoxville, Ill.*
B.A., University of Wisconsin — Medicine
Carroll, Daniel Barnard — *Pittsfield, Ill.*
B.A., University of Illinois — Political Science
Carroll, William Richard — *Andalusia, Ala.*
B.S., Mississippi Agricultural and Mechanical College — Agricultural Bacteriology
Carswell, Harry Eaton — *Richland Center*
B.S., University of Wisconsin — Chemistry
Carter, Dorothy Vivian — *Axtell, Kan.*
B.A., Baker University — History
Cason, Clarence Elmore — *Talladaga, Ala.*
B.S., University of Alabama — English
Casserly, Raymond James — *Madison*
B.A., University of Wisconsin — Medicine
Chandler, George Anthony se — *Madison*
B.S., University of Wisconsin — Philosophy
Chang Chen Ping — *Nanking, China*
E.M., University of Minnesota — Geology
Chapman, Elizabeth Ann — *Painesville, Ohio*
B.A., Mount Holyoke College — History
Child, William Clark — *Oberlin, Ohio*
M.S., University of Wisconsin — Chemistry
Chin, Wen Ai — *Tai Yuan, Shansi, China*
B.S., University of Chicago — Chemistry
Christensen, Barnard Victor — *Madison*
Ph.B., University of Wisconsin — Pharmacy
Chu, Chi Hwang se — *Tai Yuan, Shansi, China*
B.A., University of Wisconsin — Education
Clague, Ewan — *Madison*
M.A., University of Washington — Economics
Clarke, Horace F. — *Pasadena, Cal.*
M.A., University of Michigan — Economics
Clarke, Helen Isabel — *Madison*
B.A., Smith College — Sociology
Clauson, Nils Ylvisaker — *Madison*
M.A., University of Wisconsin — Latin
Cleveland, Stanley Matthews — *Madison*
B.A., University of Virginia — Physics
Closs, John O'Neill — *Madison*
B.S., Washington University — Chemistry

Clugston, Phil Rittenhouse — *Madison*
M.A., University of Wisconsin — English
Coburne, Maurice Sydney — *Greenwood, Mass.*
M.A., Harvard University — English
Cockrell, Frank Parsons — *Madison*
B.S., Northwestern University — Economics
Colbert, Roy Jefferson — *Madison*
M.A., University of Wisconsin — Sociology
Coleman, Edwin DeWitt — *Barron*
B.S., University of Wisconsin — Chemical Engineering
Collins, Jeannette Maria — *Cumberland*
B.A., Boston University — Journalism
Conant, George Herbert, se — *Madison*
M.A., University of Wisconsin — Plant Pathology
Conery, Edward Arthur, se — *Waterloo, Iowa*
B.A., Iowa State Teachers College — Industrial Education
Conklin, Paul Salisbury — *Berwyn, Ill.*
B.S., Northwestern University — English
Conner, Walter Ross — *Menomonee Falls*
B.D., Garrett Biblical Institute — Sociology
Conover, Julian Darst — *Madison*
B.A., University of Wisconsin — Geology
Coon, Gaylord Palmer — *Madison*
B S., University of Wisconsin — Pathology
Corbin, Florence May se — *Hart, Mich.*
B.S., University of Wisconsin — Education
Corley, Grover Leroy — *Lexington, S. C.*
M. A., University of South Carolina — Chemistry
Crabtree, Rodger Cooke — *Milwaukee*
Ph.B., University of Wisconsin — Political Science
Cusack, Marguerette Eileen se — *Darien*
B. Litt., St. Mary's College — English
Dalton, Leonard Aucil — *Ithaca, N. Y.*
M.A., University of Missouri — Agricultural Economics
Davis, Robert Hardin — *Thalia, Tex.*
B.A., North Texas Normal College — Economics
Day, Alice Marie — *Madison*
M.A., University of Wisconsin — English
Denyes, Lawrence Owens l — *Appleton*
B.S., Northwestern University — Economics
Deutsch, Herman Julius — *Milwaukee*
M.A., University of Wisconsin — History
De Vault, Grover G. — *Madison*
B.S., Iowa State College — Agricultural Economics
Dhir, Rupchand — *Sultanpur, Punjab, India*
B.S., Punjab University — Hydraulic and Sanitary Engineering
Dickinson, Sheldon James — *Madison*
M.S., University of Wisconsin — Chemistry
Dishmaker, Melvin Charles m — *Algoma*
B.A., University of Wisconsin — Medicine

Dixon, Phyllis	*East Orange, N. J.*
B.A., Vassar College	Zoology
Dodson, Leonidas	*Altadena, Cal.*
B.A., Whittier College	History
Dole, Kenneth	*Melrose, Mass.*
B.A., Harvard University	English
Dollard, Ellen Vivian	*Madison*
B.A., University of Wisconsin	History
Domogalla, Bernhard Paul	*Milwaukee*
M.S., University of Wisconsin	Agricultural Chemistry
Dopp, Ernest, Jr.	*Superior*
B.A., University of Wisconsin	Botany
Douchet, Marie-Jeanne	*Orléans, France*
Brevet Superieur, University of Paris	French
Doudna, Edgar George	*Madison*
Ph. B., University of Wisconsin	Education
Dove, William Franklin	*Ames, Iowa*
M.S., University of Wisconsin	Genetics
Downes, Randolph Chandler	*E. Hartford, Conn.*
B.S., Dartmouth College	American History
Drummond, Neva Helen	*Mulvane Kans.*
M.S., University of Wisconsin	Zoology
Du Bridge, Lee Alvin	*Des Moines, Iowa*
B.A., Cornell College, Iowa	Physics
Dungan, George Harlan	*Madison*
M.S., University of Illinois	Botany and Pathology
Dunstan, Robert Taylor	*Windsor, N. C.*
M.A., University of Wisconsin	Romance Languages
Durham, George Benjamin	*Mansfield, Conn.*
M.S., Connecticut Agricultural College	Botany
Dwight, Dorothy Marguerite	*Madison*
B.A., University of Wisconsin	
Dye, Emmett Charles	*Madison*
B.S., South Dakota State College	Structural Engineering
Dye, Erma Pepple se	*Madison*
B.S., South Dakota State College	Education
Dykstra, Theodore Peter	*Portland, Ore.*
B.S., Oregon Agricultural College	Plant Pathology
Early, Ruth Franklin	*Indianapolis, Ind.*
B.A., Western College for Women	Sociology
East, Ruby Jane se	*Greenville, Tex.*
B.A., Southern Methodist University	Physical Education
Eastman, Harry Rudolph se	*Lansing, Iowa*
B.A., Beloit College	Education
Eaton, Howard Ormsby	*Madison*
B.A., University of Wisconsin	Philosophy
Ebling, Walter Henry	*Richfield*
B.S., University of Wisconsin	Agricultural Economics
Ellis, Mabel Evangeline	*Madison*
B.A., University of Wisconsin	Agricultural Bacteriology

Elvehjem, Conrad Arnold — *McFarland*
B.S., University of Wisconsin — Agricultural Chemistry
Emerson, Helen Elizabeth — *Berkeley, Cal.*
B.A., University of California — German
Emery, Myra m — *Madison*
B.A., University of Wisconsin — Medicine
Emmons, Richard Conrad — *Vancouver, B. C., Canada*
M.A., University of British Columbia — Geology
Endres, Gregory Michael — *Madison*
M.A., University of Wisconsin — Romance Languages
Ennor, William Trehane — *Madison*
B.S., University of Wisconsin — Chemical Engineering
Fadness, Nels Lewis — *Poynette*
B.A., Luther College — History
Fargo, John Merrill — *Madison*
M.S., University of Wisconsin — Animal Husbandry
Feltges, Edna May — *Peoria, Ill.*
M.A., University of Wisconsin — Mathematics
Fenner, William Lawrence — *Madison*
B.S., Northwestern University — Mathematics
Fetrow, Ward Willard — *Madison*
B.S., Kansas State Agricultural College — Agricultural Economics
Finner, Lucy Louise m — *Arcadia*
B.S., University of Wisconsin — Physiological Chemistry
Finzel, Theron Gutmann — *Monroe, Mich.*
B.S., University of Michigan — Chemistry
Fisk, Emma Luella — *Newark, N. Y.*
M. A., University of Wisconsin — Botany
Fleck, Louis Carl — *Madison*
M.S., University of Wisconsin — Chemistry of Forest Porducts
Fluke, Charles Lewis — *Madison*
M.S., University of Wisconsin — Economic Entomology
Fogleman, Thomas Burney se — *Westfield, Ind.*
B.A., Central Normal College, Danville, Ind. — Education
Fogo, Isabel Young — *Evansville*
B.A., University of Wisconsin
Foley, Allen Richard — *Framingham, Mass.*
B.A., Dartmouth College — History
Foley, James Owen — *Corvallis, Ore.*
M.S., Oregon Agricultural College — Zoology
Fox, Philip Gorder — *Waterloo*
B.A., University of Wisconsin — Economics
Frazier, William Carroll — *Madison*
B.S., University of Wisconsin — Agricultural Bacteriology
Freeman, George Elbert — *Honea Path, S. C.*
B.S., Clemson Agricultural College — Agricultural Education
French, Newell Ellsworth — *Racine*
B.S., University of Wisconsin — Electrical Engineering

French, Roy LaVerne — *Madison*
B.A., University of Wisconsin — Journalism
Frey, John Weaver — *Madison*
B.S., University of Chicago — Geography
Fulcher, Paul Milton — *Madison*
M.A., Harvard University — English
Fuller, Earl Garfield — *Muskegon, Mich.*
M.A., University of Michigan — History
Fuller, Ethel Inez — *Galva, Ill.*
B.A., Hedding College — Latin
Fuller, Howard Hastings — *Madison*
B.S., University of Wisconsin — Electrical Engineering
Furukawa, Gozo — *Matsuyama, Japan*
Graduate, Kwansei Gakuin, Japan — Economics
Gaiser, Joseph — *Rosalia, Wash.*
B.S., Whitman College — Economics
Gall, Alice Louise se — *St. Paul, Minn.*
B.A., University of Minnesota — Education
Garwood, Ruth Emma — *Salem, Ohio*
M.A., University of Wisconsin — Romance Languages
Gates, Percival Taylor — *Montclair, N. J.*
B.S., University of Chicago — Plant Pathology
Gebhardt, Anna-Laura — *Madison*
B.A., University of Wisconsin — English
Geisel, Margaretha Christine — *Springfield, Mass.*
B.A., Smith College — German
Gericke, Wesley, Otto — *Lake Mills*
B.S., University of Wisconsin — Geology
Germond, Hallett Hunt — *Madison*
B.S., University of Wisconsin — Electrical Engineering
Gessler, Gertrude Enid — *Bangor*
B A., Milton College — English
Giddings, Glenn Ward — *Wesley, Iowa*
B.A., Cornell College — Physics
Gildow, Elton Maurice — *Albany, Ore.*
D.V.M., Washington State College — Agricultural Chemistry
Gill, Helen Van Riper — *New York, N. Y.*
M.A , University of California — English
Givens, Meredith Bruner — *Des Moines, Iowa*
B.A., Drake University — Economics
Goff, Sidney Britton — *Elkhorn*
B.S., University of Wisconsin — English
Gold, Bessie — *Milwaukee*
B.A., University of Wisconsin — French
Goodell, Alice Maud — *Eau Claire*
B A., B.M., University of Wisconsin — Music
Graham, Clark James — *Madison*
M.A., Columbia University — English
Grams, Carolyn Emily se — *Watertown*
B.S., University of Wisconsin — Home Economics

Granovsky, Alexander A. — *Ft. Collins, Col.*
M.S., University of Wisconsin — Economic Entomology

Graul, Edward John — *Madison*
M.S., University of Wisconsin — Soils

Gray, Irving Emery — *Woods Hole, Mass.*
B.S., Massachusetts Agricultural College — Zoology

Greeley, Helen Hay — *Madison*
LL.B., New York University — Political Science

Green, Jerome Boley — *New York, N. Y.*
M.S., University of Wisconsin — Physics

Grenoble, Herbert S. — *Madison*
B.S., Armour Institute of Technology
Chemistry of Forest Products

Griem, Walter Bert — *New Holstein*
B.S., University of Wisconsin — Agricultural Chemistry

Groth, Waldemar W. — *Watertown*
B.A., Northwestern College — German

Grundler, Augustus Ferdinand — *Madison*
M.A., University of Wisconsin — Romance Languages

Guernsey, Seymour Claudius — *Plano, Iowa*
M.S., Iowa State College — Animal Husbandry

Guerrero, Bernardino Carbonell — *Bacuotan, Union, P. I.*
B. S., University of Nebraska — Structural Engineering

Gushing, Harold George — *Ft. Wayne, Ind.*
B.S., Purdue University — Economics

Haentzschel, Adolph Theodore — *Madison*
M.A., University of Wisconsin — Philosophy

Haines, Louise Benjamin — *Cuba, N. Y.*
M.S., Syracuse University — Chemistry

Hall, Sophia — *Madison*
B.A., University of Wisconsin — Political Science

Halverson, Lynne Harvey — *Madison*
B.A., University of Wisconsin — Geography

Hames, Mary Catherine — *Madison*
Ph.B., University of Chicago — French

Hampton, Harold Clark — *Madison*
M.A., Stanford University — Botany

Hannon, Theodore R. m — *Madison*
B.A., University of Wisconsin — Medical Science

Harrington, Julia Anne — *Madison*
B.A., University of Wisconsin — Economics

Harrington, Veronica Mary — *Madison*
B.A., University of Wisconsin — Commerce

Hartman, William Albert — *Madison*
B.S., University of Wisconsin — Agricultural Economics

Hartung, Walter Henry — *Welcome, Minn.*
B.A., University of Minnesota — Chemistry

Hatch, Ruth Irene — *Seneca, Kan.*
B.A., Baker University — History

Hathaway, Edward Sturtevant — *Madison*
M.A., University of Wisconsin — Zoology
Hawley, James Edwin — *Kingston, Ontario, Canada*
M.A., Queen's University — Geology
Hayden, Margaret Camilla — *Madison*
M. A., University of Wisconsin — Mathematics
Hayden, Mary Marella — *Madison*
Ph.M., University of Wisconsin — History
Hayes, Ramona Sarah — *Madison*
B.A., University of Wisconsin — Botany
Haynes, Edith — *Emporia, Kans.*
M.A., University of Wisconsin — Agricultural Bacteriology
H'Doubler, Margaret Newell se — *Madison*
B.A., University of Wisconsin — Education
Heck, George Emil — *Madison*
C. E., South Dakota State College — Forest Products
Heilman, Lura Fellows — *Madison*
B.A., University of Wisconsin — Speech
Helble, Herbert H. — *Appleton*
B.A., Beloit College — Political Science
Helm, Mary Reed — *Beloit*
B.A., Beloit College — Anatomy
Henningsen, Carleton — *Madison*
M.S., University of Wisconsin — Forest Products
Herbert, Harold Harvey — *Norman, Okla.*
M. A., University of Wisconsin — Journalism
Herreid, Cecilia — *Madison*
B.A., University of Wisconsin — English
Hertzman, Alrick Brynhjolf — *Ashland*
B.A., Gustavus Adolphus College — Physiological Chemistry
Hill, Nels Alfred — *Williams, Iowa*
B.S., Iowa State College — Genetics
Hill, Norman Llewellyn — *Madison*
M.A., Oberlin College — Political Science
Hillman, Louis Frederick se — *Madison*
M.A., Indiana University — Education
Hinman, Albert Greene — *Madison*
B.A., University of Missouri — Economics
Hinz, Stella M. — *Thompson, N. D.*
M.A., University of Wisconsin — German
Hirsig, Pearl T. Cory — *Madison*
B.A., University of Wisconsin — Sociology
Ho, Hao Jo — *Sianatan, Hunan, China*
B.A., Stanford University — Economics
Hodges, Paul Chesley — *Madison*
M.D., Washington University, St. Louis, Mo. — Physiology
Holden, Eugene Davenport — *Madison*
M.S., University of Wisconsin — Agronomy
Holford, Frances Elizabeth — *Cassville*
B.A., University of Wisconsin — Medical Bacteriology

Honeywell, Edna Mildred — *Clayton, Mo.*
B.S., University of Wisconsin — Home Economics
Horton, George William — *Madison*
M.S., University of Wisconsin — Physics
Hougen, Olaf Andreas — *Madison*
Ch.E., University of Wisconsin — Chemical Engineering
Howe, Cecelia Anne — *Darlington*
B.A., University of Wisconsin — History
Howe, Thomas Dudley — *Table Rock, Neb.*
M.A., University of Nebraska — Botany
Howell, Leander D. — *Bexar, Ala.*
M.S., Texas Agricultural and Mechanical College — Agricultural Economics
Hrubesky, Clarence Earl — *Menasha*
B.S., University of Wisconsin — Chemistry
Hsu, Ke Chang — *Kivin, China*
B.A., Grinnell College — Political Science
Huffer, Charles Morse — *Madison*
M.A., University of Illinois — Astronomy
Hulburd, Benjamin Noyes — *Hyde Park, Vt.*
Ph.B., University of Vermont — English
Hunt, Anna Isabel — *Grand Rapids, Mich.*
M. A., Columbia University
Hunt, James Karr — *Florence, Ala.*
B.S , Alabama Polytechnic Institute — Chemistry
Hydle, Lars Larson se — *Rolla, N. D.*
B.A., North Dakota University — Education
Inches, Louise Brimmer — *Boston, Mass.*
B.A., Radcliffe College — Economics
Ingersoll, Mildred — *South Dayton, N. Y.*
B.A., Oberlin College — French
Jacques, Stanley Webster — *Wauwatosa*
Ph.B., Sheffield Scientific Institute — Metallurgy
Jaehrling, Valerio Cala — *Manila, P. I.*
Ph.G., University of Wisconsin — Chemistry
Jahn, Lillian Elizabeth — *Manilla, Iowa*
B.A., Cornell College — Romance Languages
James, William Lee — *Madison*
B.Agr., University of Missouri — Agricultural Economics
Jameson, Malcolm Foote — *Oberlin, Ohio*
B.A., Oberlin College — Physics
Jamieson, Helen M. — *Poynette*
B.A., University of Wisconsin — French
Jamison, Charles Laselle — *Madison*
B.A., University of Wisconsin — Economics
Janssen, George — *Madison*
M.S , South Dakota State College — Pathology and Agronomy
Jenkins, Glenn Llewellyn — *Sparta*
M.S., University of Wisconsin — Pharmacy

Jensen, Ward Charles — *Clemson College, S. C.*
M.S., Cornell University — Agricultural Economics
Johnson, Edward Marion — *Madison*
B.A., University of Kansas — Journalism
Johnson, George Hopkins — ***Madison***
B.A., Harvard University — Chemistry
Johnson, Marian March — *Normal, Ill.*
B.S., University of Wisconsin — Physiology
Johnson, Orville M. — *Madison*
B.S., Ohio State University — Agricultural Economics
Johnson, Robert P. A. — *Madison*
B.S., Virginia Polytechnic Institute — Forest Products
Johnston, Emery Kennedy — *Sedalia, Mo.*
B.J., University of Missouri — Journalism
Johnstone, Mary Cecilia — *Madison*
B.S., University of Wisconsin — Horticulture
Jones, James Hazlitt — *Spring Green*
M.S., University of Wisconsin — Agricultural Chemistry
Jones, Lester Martin — *Madison*
M.A., Columbia University — Economics
Jones, Russell Heber — *Victoria, B. C., Canada*
B.App.Sc., University of British Columbia — Geology
Jordan, Brady Rimbey — *Madison*
B.Litt., Princeton University — French
Judson, James Edward — *Bristol, Ind.*
B.S., University of Illinois — Botany and Horticulture
Julien, Arlie Paul — *Yeoman, Ind.*
M.S., University of Wisconsin — Chemistry
Kahlenberg, Herman Heald — *Madison*
M.S., University of Wisconsin — Chemistry
Kasten, Marie Antoinette — *Milwaukee*
M.A., University of Wisconsin — History
Kastler, Donald Montayne — *Racine*
B.A., University of Wisconsin — English
Keefe, Anselm Maynard — *West Depere*
M.A., Catholic University of America — Botany
Keller, Ernest George — *Madison*
B.A., University of Alberta — Mathematics
Kennedy, Claude Charles — *Waukesha*
B.A., Carroll College — Economics
Kenyon, Walter Alexander — *Madison*
M.A., University of Wisconsin — Zoology
Kersten, Harold John — *Wauwatosa*
B.S., University of Wisconsin — Electrical Engineering
Khoorshid, Adeshir — *Secunderabad, India*
M.S., University of Wisconsin — Agricultural Economics
Kiang, Wallace se — *Nanshang, Kiangsu, China*
M.A., University of Iowa — Education
Kilgour, Jean Wallace se — *La Grange, Ill.*
B.A., University of Wisconsin — Physical Education

Kimball, Norman C. *Madison*
M.A., Oxford University (England) Philosophy
Kinslow, M. Alcie *Bowling Green, Ky.*
B.S., University of Wisconsin Home Economics
Kleihege, Henry Joseph *Broken Bow, Neb.*
B.S., Kansas University Agricultural Economics
Klein, Michael William *Madison*
M.S., University of Wisconsin Chemistry
Kneeland, Mildred *Council Grove, Kan.*
B.A., Baker University History
Kneeland, Ruth *Council Grove, Kan.*
B.A., Baker University English
Knight, Bruce Winton *Grand Junction, Col.*
M.A., University of Michigan Economics
Knight, Garold Louis *Joplin Mo,*
B.S., University of Missouri Geology
Knight, Pearle Ethel *Beloit*
B.A., Beloit College English
Knosker, Helen Maude *Oshkosh*
B.S., Northwestern University English
Koch, John Ralph *Janesville*
M.S , University of Wisconsin Chemistry
Koehler, Arthur *Madison*
B.S., University of Michigan Forest Products
Koehler, Benjamin *Madison*
M.S., University of Wisconsin Plant Pathology
Koehler, Glenn *Madison*
B.S., University of Illinois Electrical Engineering
Kohl, Edwin J. *West Lafayette, Ind.*
M.S., Purdue University Plant Pathology
Kremers, Laura Ruth *Madison*
B.A., University of Wisconsin Horticulture
Kundert, Elizabeth m *Monroe*
B.S., University of Wisconsin Pharmacology
Kuney, Bernice Donnelly *Three Lakes*
M.A., University of Wisconsin English
Kurtz, Chester M. m *Milwaukee*
B S., University of Wisconsin Medicine
Lacey, James T., Jr. *Madison*
B.S., University of Wisconsin Anatomy
Laird, David Gordon *Vancouver, British Columbia, Canada*
B.S., University of Toronto Soils
Laird, James Alexander *Madison*
B.S., University of Wisconsin Anatomy
Lampman, Harold Heath m *Clare, Mich.*
B.A., University of Wisconsin Medicine
Lanham, Lessie *Crawfordsville, Ind.*
B.A., Indiana University History
Larson Edward Stewart *Chicago, Ill.*
E.M., Colorado School of Mines Economics

Larson, Ludvig Conrad — *Minneapolis, Minn.*
E.E., University of Minnesota — Electrical Engineering
Lasley, Robert Law — *Wentworth, N. C.*
M.A., University of North Carolina — English
Lathrop, Andrew William — *Endicott, N. Y.*
M.S., University of Wisconsin — Animal Husbandry
Lattimer, John Ernest — *Madison*
B.S.A., University of Toronto — Agricultural Economics
Laub, Carl Herbert — *Terre Haute, Ind.*
M.A., University of Wisconsin — History
Lauterbach, Charles Edward se — *Madison*
M.A., University of Wisconsin — Education
Lawrence, Hans Witlm — *Madison*
B.A., University of Wisconsin — Medicine
Lazier, Wilbur Arthur — *Madison*
M.S., University of Wisconsin — Chemistry
Lebert, Eugene M., — *Madison*
M.A., University of Wisconsin — French
Le Fort, Emilio — *Rosario, Argentine, S. A.*
Ingeniero Agrónomo, University of Buenos Aires
Leininger, Elmer — *Waukesha*
B.S., Carroll College — Chemistry
Leitz, Frank Bantley — *Los Angeles, Cal.*
B.S., University of Wisconsin — Medicine
Leitzell, Kathryn, Rebecca — *Benton*
B.S., University of Wisconsin
Lepkovsky, Samuel — *Kenosha*
M.S., University of Wisconsin — Agricultural Chemistry
Leukel, Walter Anthony — *Brillion*
B.S., University of Wisconsin — Botany
Levitz, Herman Hyman — *Madison*
B.S., University of Wisconsin — Agricultural Chemistry
Lewis, Charles McLeod — *South Milwaukee*
B.S., University of Wisconsin — Metallurgy
Lewis, John Roberts — *Spanish Fork, Utah*
M.S., University of Utah — Chemistry
Lichty, Elizabeth Ellen — *Zion City, Ill.*
B.A., Lake Forest College — Romance Languages
Limber, Ralph Clark — *Meadville, Pa.*
M.A., University of Wisconsin — Economics
Lindegren, Alina Marie — *Superior*
M.A., University of Wisconsin — History
Liu, Ju Chiang — *Peking, China*
B.S. Philadelphia College of Pharmacy — Pharmacognosy
Lloyd, Lillie Elizabeth Virtue — *Toronto, Canada*
M.A., University of Toronto — Spanish
Loft, Genivera Edmunds — *Madison*
M.A., University of Wisconsin — Geography
Lombard, Maud Jennie se — *Eugene, Ore.*
B.A., University of Oregon — Physical Education

Long, John Francis — *Westfield*
B.S., University of Wisconsin — Economic Entomology
Longenecker, Ernest A. — *Madison*
B.S., University of Wisconsin — Mechanical Engineering
Loomis, Louie Price — *Cassopolis, Mich.*
B.S., Mississippi College — Mathematics
Lounsbury, James Anderson — *Madison*
M.S., University of Wisconsin — Botany
Lu, Chi Tzong — *Nantung, China*
B. A., Coe College — Economics
Luck, Isabel se — *Ripon*
B.A., Ripon College
Ludden, Alfred Dexter — *Mineral Point*
M.S., University of Wisconsin — Chemistry
Lumpkin, Hope Henry — *Madison*
M.A., University of Wisconsin — Economics
Luxford, Ronald F. — *Madison*
B.S., University of Minnesota — Forest Products
MacCracken, Chester Caldwell — *Ashland, Ore.*
B.S., Oregon Agricultural College — Chemistry
MacGillivray, John Henry — *Urbana, Ill.*
M.S., University of Illinois — Horticulture Botany
McAteer, James Robert — *Madison*
B.S., University of Wisconsin — Speech
Mackay, Scott — *Milwaukee*
B.S., Rensselaer Polytechnic Institute — Metallurgy
McCarthy, Lucile Howard — *Madison*
B.A., University of Wisconsin — Economics
McCaul, Mary Edna — *Garden Grove, Iowa*
B.A.,University of Illinois — Sociology
McCollum, Edgar DeBolt — *Madison*
M.S., University of Wisconsin — Chemistry
McCrea, Forrest Draper — *Madison*
M.S., University of Illinois — Physiology
McDermott, Olive — *Watertown*
Ph.B., University of Wisconsin — English
McElwee, Charlene C. — *Madison*
B.A., Milwaukee Downer College
McFetridge, George William — *Madison*
LL.B., University of Wisconsin — Economics
McKee, Jewel Chester — *A. & M. College, Miss.*
B.S., Mississippi Agricultural and Mechanical College — Botany
McLean, Arthur Lloyd — *Westfield*
M.A., University of Wisconsin — History
McLenegan, Annie Susan — *Beloit*
M.A., University of Wisconsin — English
Malone, Nina Smith — *Madison*
M.A., University of Wisconsin — Romance Language

Malz, Gertrude — *Philadelphia, Pa.*
B.A., Swarthmore College — Latin
Mann, Elizabeth Lois — *Chicago, Ill.*
Ph.B., University of Chicago — English
Markwardt, Lorraine Joseph — *Madison*
C.E., University of Wisconsin — Mechanics
Marshall, Rush Porter — *Washington, D. C.*
B.S., Penn State College — Plant Pathology
Martelle, Nerville Austin — *Menominee, Mich.*
B.A., Lawrence College — History
Martin, Ella May — *Milwaukee*
M A., University of Wisconsin — Botany
Martin, George W. se — *Madison*
B.S., University of Wisconsin — Physical Education
Martin, Neva se — *Darlington*
Ph.B , University of Wisconsin — Education
Martini, Margarete Katherine — *Madison*
B.A., University of Wisconsin — Home Economics
Mason, Ralph Bryant — *New Windsor, Ill.*
M.A., University of Wisconsin — Chemistry
Massey, Dorothy — *Chestertown, Md.*
M.A., University of Wisconsin — History
Matsui, Shichiro — *Onomura, Gummaken, Japan*
M.A., University of California — Economics
Matsumoto, Ryozo — *Tokyo, Japan*
B.A., Keio University — Sociology
Meacham, Edna Lillian — *Carlisle, Pa.*
M.A., Cornell University — Physics
Meacham, Elmer Reynolds — *Madison*
B.S., University of Wisconsin — Agricultural Engineering
Meanwell, Helen Gath — *Madison*
B.A., University of Wisconsin — Medicine
Melcher, Burton Walters — *Madison*
B.A., University of Wisconsin — Geology
Meloche, Villiers Willson — *Madison*
M.S., University of Wisconsin — Chemistry
Mercier, Germaine — *Marseille, France*
M.A., University of Washington — Romance Languages
Mertzke, Arthur John — *Madison*
B.A., University of Wisconsin — Economics
Metz, Louis Arthur — *Omaha, Neb.*
B.S., Massachusetts Institute of Technology — Structural Engineering
Meulemans, August Martin — *Madison*
B.A., University of Wisconsin — Zoology
Miller, Eric Rexford — *Madison*
M.S., University of Wisconsin — Physics
Milum, Vern G. — *Madison*
B.S., University of Wisconsin — Economic Entomology

Mioche, Marie — *Clermont, Ferrand, France*
B.A., University of Utah — Romance Languages
Mizoe, Satsuki — *Hokkaido, Japan*
B.S., Imperial University, Japan — Civil Engineering
Moehlenpah, Marion — *Milwaukee*
B. A., University of Wisconsin — Economics
Monsson, William Henry — *Madison*
B.S., University of Illinois — Forest Products
Montgomery, Donald Ewan — *Madison*
B.A., University of Pennsylvania — Economics
Moore, Ellen Tenney — *Madison*
B.S., University of Wisconsin
Moore, Myrtle Lella — *Mexico, Mo.*
B.A., B.S., University of Missouri — History
Morgan, Fay Bensil — *Oakfield*
B.A., Ripon College — Electrical Engineering
Morishita, Masakazu — *Osaka, Japan*
B.A., Waseda University — Economics
Morris, Lloyd Wallace — *Appleton*
B.A., Lawrence College — Physics
Morse, Wayne Lyman 1 — *Madison*
B.A., University of Wisconsin — Economics
Moseley, Helen Horton se — *Chicago, Ill.*
B.A., University of Michigan — Education
Mossman, Harland Winfield — *Madison*
M.S., University of Wisconsin — Zoology
Motley, Emery Tyler — *Madison*
M.S., Alabama Polytechnic Institute — Pharmacy
Mott, Margaret Burling — *Pittsburgh, Pa.*
M.A., University of Wisconsin — Romance Languages
Mueller, Fred George — *Madison*
Ph.M., University of Wisconsin — Psychology
Mulvania, Maurice — *Madison*
M.S., University of Tennessee — Agricultural Bacteriology
Munro, Jeanette m — *Princeton, N. J.*
B.A., University of Wisconsin — Medicine
Murneek, Andrew Edward — *Madison*
M.S., Iowa State College — Botany
Neal, Annie — *Gainesville, Tex.*
M.A., University of Wisconsin — History
Neidy, Carrie Lois — *Waterloo, Iowa*
B.S., Columbia University Teachers' College — Geography
Nelson, Lowry — *Provo, Utah*
B.S., Utah Agricultural College — Agricultural Economics
Nelson, Mariana Theresa — *Madison*
M.S., Unjversity of Wisconsin — Agricultural Chemistry
Ness, Alexander Renfrew — *Quebec, Canada*
B. S., McGill University — Animal Husbandry
Nettels, Elsie Patterson — *Madison*
B.A., University of Kansas — History

Nettleton, Sarah	*Madison*
B.S., University of Idaho	Home Economics
Neumann, Arthur Henry	*Milwaukee*
B.S., University of Wisconsin	Pharmacy
Newsome, Philip Thompson	*South English, Ia.*
M.S., University of Iowa	Chemistry
Nichols, James Burton	*Danbury, Conn.*
B.Chem., Cornell University	Chemistry
Nichols, Merle Starr	*Madison*
M.S., University of Wisconsin	Physiological Chemistry
Nicolai, Martha	*Milwaukee*
B.A., University of Wisconsin	German
Nightingale, Gordon Thayer	*Madison*
M.S., New Hampshire University	Botany
Noland, Lowell Evan	*Madison*
M.A., University of Wisconsin	Zoology
Norris, Elva Lovina	*Laurel, Neb.*
B.A., Nebraska Wesleyan University	Botany
Nyhus, Paul Odin	*Chippewa Falls*
B.S., University of Wisconsin	Agricultural Economics
Obana Tsutomu	*Tokyo, Japan*
B.C., Waseda University	Economics
Oldigs, William	*Leigh, Neb.*
B.A., Midland College	*Sociology*
Oliver, George Peter	*Galesville*
B.A., University of Wisconsin	Political Science
Olson, Helen Isabel	*Madison*
B.A., University of Wisconsin	
O'Malley, Agnes Elizabeth	*Madison*
B.A., University of Wisconsin	
O'Neil, Margaret Ethel	*Cloquet, Minn.*
Ph.B., University of Wisconsin	History
Opheim, Julia Mathilde	*Northfield, Minn.*
B.A., St. Olaf College	French
Oren, Elma Tomena se	*Madison*
B.A., University of Colorado	Education
Paddock, Frank	*Madison*
B.A., Indiana State Normal	Political Science
Page, James Franklin	*Clarksville, Mo.*
M.A., University of Chicago	Agricultural Economics
Palmer, Edgar Savitz	*Ridley Park, Pa.*
B.A., Swarthmore College	Economics
Parkinson, George Ambrose	*Madison*
M.A., Ohio State University	Mathematics
Paroni, Anthony	*Piedmont, Cal.*
Ph.B., University of Wisconsin	Political Science
Patterson, Helen M.	*Madison*
B.A., University of Kansas	Journalism
Pedersen, Erna Sophia	*Racine*
B.A., University of Wisconsin	Latin

Penhallegon, Marian Loveday — *Mineral Point*
B.A., University of Wisconsin

Perkins, Philip Powell — *West Chicago, Ill.*
B.S., University of Illinois — Chemistry

Perlman, Jacob — *Madison*
M.A., University of Wisconsin — Economics

Perrigo, Harold William — *Oshkosh*
B.A., University of Wisconsin — Economics

Person, Philip Hilmore — *Wauneta, Neb.*
B.A., State Teachers College — Economics

Peters, Fredus Nelson — *Madison*
M.A., Missouri University — Chemistry

Peters, Leo James — *Edgemont, S. D.*
E.E., University of Wisconsin — Electrical Engineering

Pettis, Charles Semple — *Madison*
M.S., University of Wisconsin — Physics

Phillips, Burr Wendell — *Madison*
M.A.,University of Wisconsin — History

Phillips, Clarence Arthur se — *Endeavor*
B.A., Carroll College — Education

Phillips, Roy Cleveland — *Norwich, Conn.*
M.A., Harvard University — Spanish

Pilkington, May — *Garnett, Kan.*
B.A., Baker University — English

Pommerenki, Wesley Theodore — *Clay Center, Kan.*
M.A., University of Kansas — Zoology

Pontius, Byron Ernest — *Lafayette, Ind.*
B.S., Ohio State University — Genetics

Pope, Rosa Mathilde — *Racine*
B.A., University of Wisconsin — French

Porter, Annie May se — *Nashville, Tenn.*
B.A., Fisk University — Education

Potts, Howard W. , — *Edmond, Okla.*
B.A., University of Oklahoma — History

Pratt, Helen Emily — *Cleveland, Ohio*
B.A., University of Wisconsin

Pray, H. A. Holden — *Madison*
M.A., Oberlin College — Chemistry

Prescott, Frank Williams — *Madison*
M.A., University of Wisconsin — History

Pressentin, Marie Louise se — *Madison*
B.A., University of Wisconsin — Education

Pryor, Margaret — *Austin, Tex.*
M.A., University of Texas — Sociology

Pyle, Sarah Idell — *Malcom, Iowa*
B.A., Grinnell College — Education

Ragatz, Lowell Joseph — *Madison*
M.A., University of Wisconsin — History

Ramsay, Ralph Edwin — *Beloit*
Ch.E., University of Wisconsin — Chemical Engineering

Randell, Cortes Gilbert — *Lawrenceburg, Ind.*
B.S., Purdue University — Agricultural Economics

Randolph, Howell Sheppard m — *Milton*
B.A., Milton College — Medicine

Rankin, Eugene Joseph — *Appleton*
M.S., University of Wisconsin — Agricultural Chemistry

Rankin, Iva Lucille — *Pekin, Ill.*
B.A., University of Wisconsin — Zoology

Rasmussen, Edna Amelia se — *St. Louis, Mo.*
B.A., Washington University — Education

Rath, Martha Amelia — *Edmonton, Alta., Canada*
B.S., University of Washington — Home Economics

Raushenbush, Paul A. — *Rochester, N. Y.*
B.A., Amherst College — Economics

Reed, Joseph — *Madison*
M.A., University of Denver — Sociology

Reynolds, May Statler se — *Madison*
B.S., Iowa State College — Home Economics

Rickett, Theresa Cecile — *Madison*
B.S., University of Wisconsin

Ricks, Melvin Byron — *Delafield*
M.A., University of Missouri — Romance Languages

Riebe, Harvey August se — *Onalaska*
Ph.M., University of Wisconsin — Education

Riegle, Bertha Coraline — *Franklin Grove, Ill.*
B.A., Cornell College — Physics

Roberts, Edward Stephen — *Cottage Grove*
B.A., Ripon College — Philosophy

Roberts, Ray Harland — *Madison*
M.S., Oregon Agricultural College — Botany

Robertson, Alfred Crawford — *Portland, Ore.*
B.S., Oregon State College — Chemistry

Rodolfo, Augustin. — *S. Antonio, Zambeles, P. I.*
B.S., University of Wisconsin — Genetics

Rogers, Lennette May — *South Carver, Mass.*
M.A., University of Wisconsin — Botany

Rollefson, Aimar Hermo — *Superior*
B.A., University of Wisconsin — Physics

Ross, William Ernest — *Madison*
B.A., University of Wisconsin — Music

Rouse, Glenn Francis — *Madison*
B.A., Cornell College, Iowa — Physics

Rowland, Ben Wright — *Boulder, Col.*
B.A., University of Colorado — Chemistry

Royce, Harvey Day — *Ft. Atkinson*
B.S., University of Wisconsin — Chemistry

Rudie, Neil H. se — *Westby*
Ph.B., University of Wisconsin — Education

Rummel, Leo Leonard — *Madison*
M.A., University of Wisconsin — English
Rupel, Isaac Walker — *Urbana, Ill.*
B.S., University of Illinois — Agricultural Chemistry
Rusch, Hugo Leonard — *Reedsville*
B.S., University of Wisconsin — Electrical Engineering
Rushton, Eugene Ray — *Montgomery, Ala.*
B.A., University of Virginia — Chemistry
Russell, Cecil Ruffell — *Christchurch, N. Z.*
B.S., University of Wisconsin — Hydraulic Engineering
Russell, Ruth Edna — *Kansas City, Kan.*
M.A., Teachers College of Columbia University — English
Sabin, Jean Frederick — *Watertown*
B.S., University of Wisconsin — Pharmacy
Salter, George Stauffer — *Norfolk, Neb.*
B.S., University of Nebraska — Structural Engineering
Sanborn, Katherine Yates — *Madison*
B.A., University of Wisconsin
Sanders, Jesse Thomas — *Washington, D. C.*
M.A., George Peabody College — Agricultural Economics
Saunders, Abraham Rabie — *Orange Free State, Union of So. Africa*
B.S., Kansas State Agricultural College — Genetics
Saunders, Allan Frederic — *Madison*
M.A., University of Wisconsin — Political Science
Sayle, Mary Honora — *Madison*
B.A., University of Wisconsin — Zoology
Scallon, Brighiden Trumble — *Hancock, Mich.*
M.A., University of Wisconsin — French
Schacht, Fred Williams m — *Racine*
B.S., Beloit College — Anatomy
Schacht, Roland John m — *Racine*
B.S., Beloit College — Medicine
Schacke, Martha Alvina — *Reedsburg*
M.A., University of Wisconsin — Botany
Schell, Herbert Samuel — *Bernville, Pa.*
M.A., Columbia University — Economics
Schilling, Ethel Florence — *Green Bay*
Ph.B., University of Wisconsin — Mathematics
Schleck, Leo Peter se — *Madison*
Ph.B., University of Wisconsin — Education
Schmidt, Clara Tessa — *Chicago, Ill.*
B.A., Smith College — Animal Husbandry
Schmidt, Emil Gustave — *Osceola*
M.S., University of Wisconsin — Agricultural Chemistry
Schmitz, Henry Lenzen — *Chicago, Ill.*
M.S., University of Wisconsin — Pharmacology
Schoofs, Gregor Elmer m — *Fond du Lac*
B.A., Ripon College — Medicine

Schulein, Hazel Valentine — *St. Louis, Mo.*
B.A., Washington University — French
Schulz, Ernest Rudolf — *Madison*
Ph.D., University of Illinois — Botany
Schunk, Oliver Henry — *Menomonee Falls*
B.S., University of Wisconsin — Chemistry
Schwab, Mabel Lloyd — *Madison*
B.A., University of Wisconsin — English
Schwenker, Margaret Amalia — *Cincinnati, Ohio*
B.S., University of Wisconsin — Home Economics
Scott, Eleanor Bryce — *Moline, Ill.*
M.A., University of Illinois — English
Scott, Kenneth — *Watertown, Conn.*
M.A., University of Wisconsin — Classics
Scott, Kenneth L. — *Madison*
B.S., University of Wisconsin — Electrical Engineering
Shaner, Dorothy Romaine — *Philadelphia, Pa.*
B.A., University of Wisconsin — Latin
Shanks, Elsie — *Albany, N. Y.*
M.A., Radcliffe College — English
Shao, Chia Lin — *Shanghai, China*
B.A., University of Wisconsin — Chemistry of Forest Products
Sharpe, Robert Boies — *Greenwich, N. Y.*
M.A., University of Wisconsin — English
Shen, Matthew Hsiung-Ching — *Shanghai, China*
M.S., University of Wisconsin — Chemistry
Sherman, Courtney Clarence se — *Madison*
Ph B., University of Wisconsin — Education
Shumaker, Helen Lenore — *New Castle, Pa.*
Ph.B., Denison University — English
Simley, Ole Andrew — *Black Earth*
M.A., Carleton College — Philosophy
Simmonds, Prye Morton — *Amherst, N. S., Canada*
B.S., McGill University — Plant Pathology
Sims, Seth D. — *Madison*
B.S., Purdue University — Animal Husbandry
Sinks, Ruth Herzog — *Lafayette, Ind.*
B.A., De Pauw University — German
Sister Mary Paschal Schroeder — *Dubuque, Iowa*
B.A., Mt. St. Joseph College — Economics
Sister Mary Josephine Malone se — *Dubuque, Iowa*
B.A., Mt. St. Joseph College — Education
Smith, Amy Hoyt — *Madison*
B.A., University of Wisconsin — English
Smith, C. Richard m — *Superior*
B.A., University of Wisconsin — Medicine
Smith, Donald Putney — *Waukesha*
M.S., University of Wisconsin — Chemistry

Smith, Edna Louse — *Madison*
B.A., University of Wisconsin — English
Smith, Eleanor Dempcy — *Hagerstown, Md.*
B.A., Western Reserve University — History
Smith, Guy-Harold — *La Farge*
Ph.B., University of Wisconsin — Geography
Smith, Harvey McKinley — *Madison*
M.S., University of Wisconsin — Zoology
Smith, Helen Belle — *Madison*
M.A., University of Wisconsin — French
Smith, Margaret Elizabeth — *Liverpool, Nova Scotia, Canada*
Ph.B., University of Chicago — Physiological Chemistry
Smith, Margaret Hanna — *Milwaukee*
B.A., Vassar College — Economics
Smith, Marion Burr — *Madison*
B.A., University of Wisconsin — English
Smith, Mary Ruth — *Madison*
B.A., University of Wisconsin — Romance Languages
Smith, Reuben William — *Madison*
B.S., University of California — Botany
Smith, Velma — *Paris, Ark.*
B.S , University of Arkansas — Home Economics
Smith, William Ernest — *Walnut Grove, Mo.*
B.S., State Teachers College, Springfield, Mo. — History
Soller, Theodore — *Youngstown, Ohio*
B.A., Oberlin College — Physics
Spence, Mary Leslie — *Madison*
M.A., University of Wisconsin — English
Sprague, Frank Arthur — *Madison*
M.A., University of Wisconsin — Romance Languages
Stahl, Mary Edith — *Chicago, Ill.*
B.A., Wellesley College
Staidl, Joseph Arnold — *Madison*
M.S., University of Wisconsin — Chemistry of Forest Products
Staley, Kate m — *Sayner*
B.A., Wells College — Physiology
Staley, Ruth — *Springfield, Ohio*
B S., Wells College — German
Stamm, Alfred Joaquin — *Los Angeles, Cal.*
M.S., University of Wisconsin — Chemistry
Stark, Laura Sophia — *Madison*
M.A., University of Wisconsin — German
Stearn, Noel Hudson — *St Louis, Mo.*
M.A., Stanford University — Geology
Steele, Dewey George — *Quaker City, Ohio*
M S., University of Wisconsin — Genetics
Steinbring, Edward Ferdinand — *Ripon*
B.A. Ripon College — Chemistry

Steinle, John Vernon — *Madison*
M.S., University of Wisconsin — Chemistry

Stevens, Henry — *St. Albans, Vt.*
M.S., University of Wisconsin — Agricultural Chemistry

Stevens, Jesse Watson — *Montpelier, Miss.*
M.S., University of Wisconsin — Agricultural Bacteriology

Stevens, Linton Cooke — *Madison*
M.A., University of Wisconsin — English

Stewart, Harold Wilson — *Madison*
B.S., University of Illinois — Soils

Stote, Helen Marshall — *Colorado Springs, Col.*
B.A., Stanford University — Spanish

Streets, Rubert Burley — *Madison*
M.S., University of Wisconsin — Plant Pathology

Strout, Alan Lang — *Cambridge, Mass.*
M.A., University of Chicago — English

Studer, Frank John — *Madison*
B.A., University of British Columbia — Physics

Sudweeks, Joseph se — *Kimberly, Idaho*
M A., University of Chicago — Education

Supernaw, Jack Shores m — *Charlevoix, Mich.*
B.S., Olivet College — Medical Science

Suyenobu, Jiro — *Tokyo, Japan*
B.S., Imperial University of Japan — Civil Engineering

Suzuki, Tokitaro — *Aiea, Oaku, Hawaii*
B.A., University of Wisconsin — Economics

Swanson, Clarence Otto — *Vancouver, B. C.*
M.A., University of British Columbia — Geology

Swartz, Carl Errett — *Danville, Ill.*
B.S., University of Illinois — Chemistry

Tallmadge, Guy Kaston m — *Milwaukee*
B.A., University of Wisconsin — Medicine

Tavernier, Louise — *Beauvais, France*
Brevet Superieur, University of Sorbonne — French

Taylor, Arthur Chandler m — *Sioux City, Iowa*
B.A., University of Wisconsin — Anatomy

Taylor, Ferne Elizabeth — *Fredericksburg, Ohio*
B S., Iowa State College — Economics

Taylor, Henry Gordon — *Madison*
M.S., University of Wisconsin — Geology

Templer, Charles Solon — *Shiloh, Ohio*
B.A., Ohio Wesleyan University — Speech

Templeton, Hugh Longwill — *Lima Center*
M.S., University of Wisconsin — Chemistry

Ten Haken, William Henry — *Cedar Grove*
B.A., Hope College — Economics

Tetreau, Eleazer — *Madison*
M.A., University of Wisconsin — Agricultural Economcis

Thiel, Richard Benjamin se — *Madison*
Ph.B., University of Wisconsin — Education
Thiele, Carl Fred — *Green Bay*
B.S., Carroll College — Chemistry
Thomas, Gerald Spencer — *Waukesha*
B.A., Carroll College — Economics
Thomas, Raymond Doty — *Springfield, Mo.*
Ph.M., University of Wisconsin — Economics
Thomas Windsor Pipes — *Pineville, La.*
B.S., Louisiana State University — Dairy Husbandry
Thompson, Alan Reynolds — *Yakima, Wash.*
M.A., Harvard University — English
Thompson, Roy Leland — *Baton Rouge, La.*
B.S., Louisiana State — Agricultural Economics
Thomsen, Frederick Lundy — *Madison*
M.S., University of Wisconsin — Agricultural Economics
Thornbury, Ethel Margaret — *Lexington, Ky.*
M.A., University of Wisconsin — English
Thum, William Clark — *Pasadena, Cal.*
B.S., University of California — Mechanical Engineering
Tigay, Clara Deborah m — *Madison*
B.S., University of Wisconsin — Medicine
Tilden, Chloe Elizabeth — *Wausau*
M.A., University of Wisconsin — Romance Languages
Tims, Eugene Chapel — *Louisville, Miss.*
B.S., Mississippi Agricultural and Mechanical College — Plant Pathology
Titchener, Alice McLellan — *Ithaca, N. Y.*
B.A., Wells College — English
Tompkins, Christian Milton — *Greeley, Col.*
M.S., Colorado Agricultural College — Plant Pathology
Tomsich, Mario Benjamin — *Gary, Ind.*
B.A., University of Wisconsin — Law
Tosterud, Martin — *Madison*
M.S., University of Wisconsin — Chemistry
Traynor, Bernard Philip l — *Milwaukee*
B.S., Colgate University — Law
Treille, Henrietta Marie Marguerite — *Paris, France*
M.A., University of Wisconsin — French
Trewartha, Glenn Thomas — *Hazel Green*
M.A., Harvard University — Geography
Trout, Clement E. — *Madison*
B.S., University of Illinois — Agricultural Journalism
Troxell, John Philip — *Denver, Col.*
B.A., Washburn College — Economics
Tucker, Gilbert Norman — *London, Ontario, Canada*
M.A., University of Western Ontario — History
Turgason, Anna Julia — *Richland Center*
Ph.D., University of Wisconsin — English
Turkovich, Mathew — *Monongah, W. Va.*
B.S., West Virginia University — Structural Engineering

Vacheron, Dorothy Dopp — *Madison*
B.A., University of Wisconsin — Economics
Valentine, Elvin Laverne — *Indianapolis, Ind.*
B.A., De Pauw University — History
Van Lone, Eldyn Everett — *Jefferson*
B.S., University of Wisconsin — Genetics
Vanselow, Waldemar — *Syracuse, N. Y.*
M.S., Syracuse University — Chemistry
Van Tassel, Richard Julian — *Whitehall*
Ph.B., University of Wisconsin — Economics
Veazey, Marion Henry — *Avilla, Ind.*
M.A., Oberlin College — Chemistry
Verhaeghe, Eugene Jean — *Brussels, Belgium*
E.M., University of Louvain — Mining Engineering
Vestal, Edgar Fred — *Fruitland, Idaho*
M.S., University of Wisconsin — Plant Pathology
Vetesk, Andrew Dvorak — *Elyria, Ohio*
B.A., Baldwin Wallace — Sociology
Viljoen, Jan Augusto — *Kroonstad, Free State, So. Africa*
M.S., University of Wisconsin — Agricultural Bacteriology
Vivien, Edith — *Madison*
B. A. University of Lausanne — Romance Languages
Volk, Norman James — *Oconto Falls*
B.S., University of Wisconsin — Soils
Voorhees, Vanderveer — *Madison*
M.S., University of Illinois — Chemistry
Voskuil, Walter Henry — *Oostburg*
M.S., University of Wisconsin — Geography
Wackmann, Clarence Frederic — *St. Louis, Mo.*
B.Chem., Cornell University — Physics
Wagner, Raymond George — *Omro*
B.A., Lawrence College — Agricultural Economics
Wathle, Rhea Boita se — *Davenport, Iowa*
E.S., Iowa State College — Education
Wait, Albert H. — *Madison*
B.A., B.S., University of Missouri — Physics
Wait, Mary Eleanor Comber — *Madison*
B.A., B.S., University of Missouri — Romance Languages
Wakeley, Raymond Earl — *Honesdale, Pa.*
B.S., Pennsylvania State College — Agricultural Economics
Wakerlin, George E. — *Chicago, Ill.*
B.S., University of Chicago — Pharmacology and Toxicology
Waldron, Eloise — *Madison*
B.A., University of Wisconsin — English
Wales, Julia Grace — *St. Andrews East, Quebec, Canada*
M.A., Radcliffe College — English
Walker, Marion Newman — *Anderson, S. C.*
M.S., University of Wisconsin — Plant Pathology
Walker, Ruth Irene — *Danville, Mich.*
B.A., University of Michigan — Botany

Walker, William Allen — *Racine*
B.S., University of Wisconsin — Plant Pathology
Walther, Herman Oscar — *Madison*
B.A., University of Wisconsin — Economics
Wannemacher, Joe M. — *Steubenville, Ohio*
B.S., University of Missouri — Geology
Warner, Harold Herreck — *St. Johns, Mich.*
M.A., University of Michigan — History
Warner, William Everett se — *Madison*
B.S., University of Wisconsin — Industrial Education
Warvelle, Marjorie Bangs — *Madison*
B.S., Milwaukee Downer College — Horticulture
Warwick, Bruce Lester — *Madison*
M.S., University of Wisconsin — Genetics and Veterinary Science
Watt, Merrill Worthing — *Madison*
B.S., Kansas State Agricultural College — Agricultural Economics
Weber, Clarence Walter — *Sturgeon Bay*
B.S., University of Wisconsin — Agricultural Bacteriology
Wechter, Eugene Jacob — *Berne, Ind.*
B.A., De Pauw University — Chemistry
Weed, Alfred — *Madison*
B.S., University of Wisconsin — Economic Entomology
Weed, Linton Gilmore m — *Phelps*
B.S., University of Wisconsin — Medicine
Weeks, Albert William — *Chilton*
B.A., University of Wisconsin — Geology
Weeks, Herbert John — *Chilton*
M.A., University of Wisconsin — Geology
Weeks, Oliver Douglas — *Marion, Ohio*
M.A., University of Wisconsin — Political Science
Wegmann, Linda Hattie — *Milwaukee*
B.A., Milwaukee Downer College — History
Weightman, Esther — *Mound City, Mo.*
M.A., University of Wisconsin — Latin
Weinke, Ernest Albert se — *Merrimac*
B.A., University of Wisconsin — Education
Wellborn, Fred Wilmot — *Lawrence, Kan.*
M.A., University of Kansas — History
Wellman, Frederick Jovejoy — *Wichita, Kan.*
B.A., Fairmount College — Plant Pathology
Wessel, Iona Johens — *Madison*
B.A., University of Wisconsin — Music
West, Robert William — *Madison*
M.A., University of Wisconsin — Speech
Whipple, Dorothy V. — *New York, N. Y.*
B.A., University of Wisconsin — Chemistry
Whitaker, Joseph Russell — *Madison*
M.S., University of Wisconsin — Geography

White, Helen Constance — *Roslindale, Mass.*
M.A., Radcliffe College — English
Whitehead, Trixie Knight — *Madison*
B.S., University of Wisconsin — Home Economics
Whitford, Earl Lester — *Edgerton*
M.A., University of Wisconsin — Chemistry
Whitmer, Ralph Glenn m — *Oskaloosa, Iowa*
B.S., Cornell College (Iowa) m — Medical Science
Whitney, Beryl Esther — *Madison*
B.A., University of Wisconsin — English
Wiig, Edwin Odde — *Rochester, N. Y.*
B.S., Rensselaer Polytechnic Institute — Chemistry
Wilgus, Alva Curtis — *Madison*
M.A., University of Wisconsin — History
Williams, Dorothy Elizabeth — *Melrose Highlands, Mass.*
B.A., Mt. Holyoke College — Zoology
Williams, Eva Fancher — *Oak Park, Ill.*
B.A., Cornell College — English
Williams, Inez Margaret — *River Falls*
B.S., University of Wisconsin — Chemistry
Williams, John Warren — *Madison*
M.S., University of Wisconsin — Chemistry
Williams, Thomas Bowerman — *Picton, Ontario, Canada*
M.S., Queens University — Geology
Wilson, John Allen m — *Appleton*
B.A., Ripon College — Medicine
Wilson, Roger Verden — *Cedar Falls, Iowa*
B.A., Iowa State Teachers College — Chemistry
Winslow, Catharine se — *Kalamazoo, Mich.*
Ph. B., University of Chicago — Education
Wirka, Raymond M. — *Madison*
B.S., University of Wisconsin — Forest Products
Withrow, Lloyd Leo — *Van Buren, Ohio*
M.A., University of Wisconsin — Chemistry
Witt, Marion Winnifred — *McGregor, Tex.*
M.A., Columbia University — English
Wofsy, Samuel Abraham — *Madison*
M.A., University of Wisconsin — Romance Languages
Wolf, Lorelle Arthur — *Madison*
M.A., University of Wisconsin — History
Wolfson, Alfred Mortimer — *New York, N. Y.*
M.A., University of Wisconsin — Botany
Wolters, Myra Collinson — *Two Rivers*
B.A., University of Michigan — English
Wood, Charlotte Robertson — *Madison*
B.A., Lawrence College — English
Wood, Dorothy Belle — *Milwaukee*
B.S., University of Wisconsin — Home Economics
Wood, Ella Lucille — *Berlin*
M.A., University of Wisconsin — Geography

Wood, Majil Williams	*Elmore, Minn.*	
M.A., Cornell College	Romance Languages	
Wood, Ralph Hereld	*Madison*	
M.A., University of Wisconsin	History	
Wooster, Marie Elizabeth	*Waukesha*	
B.A., Hedding College	English . .	
Wray, Edith Armstrong	*Shelbyville, Ind.*	
M.A., Stanford University	English	
Yaudes, Lloyd John	*Peshtigo*	
B.A., University of Wisconsin	Economics	
Ying Ching Yi	*Shanghai, China*	
B.A., Soochow University	Economics	
Yoke, John Jonathan	*Acton, Ind.*	
B.S., University of Illinois	Genetics	
Young, Albert Gayland	*Denver, Col.*	
D.V.M., Colorado Agricultural College	Pharmacology	
Young, Robert Archer	*Evansville*	
B.A., Ripon College	English	
Youngquist, Seth Charles	*Madison*	
B.A., University of Wisconsin	Economics	
Zelson, Louis Gabriel	*Madison*	
M.A., Harvard University	Semitics	
Ziegler, Aloysius Kieran	*Madison*	
B.A., St. Francis Seminary	History	
Zinn, Zea	*Madison*	
B.A., Milton College	English	
Zorbaugh, Grace S. McClure	*Cleveland, Ohio*	
M.A., University of Wisconsin	Economics	
Zucker, Louis Clement	*Madison*	
M.A., University of Pennsylvania	English	

UNDERGRADUATES

COLLEGE OF LETTERS AND SCIENCE

Seniors

Aase, Anna Pauline se	*Mondovi*
Abrams, Sarra M. se	*Milwaukee*
Adams, Alice Marie	*Chicago, Ill.*
Adolphson, Signe Josephine se	*Edgerton*
Alexander, Gertrude se	*Jewell, Iowa*
Anderson, Ann Elizabeth se	*Columbus*
Anderson, Ruth Mary se	*Eau Claire*
Anson, Charles Phillips se	*Hamilton, Mont.*
Ardiel, Arthur Hamilton	*Grand Rapids, Mich.*
Armentrout, Carolyn Soward	*Maysville, Ky.*
Aspinwall, Mary se	*Ft. Atkinson*
Bachhuber, Alphons Eugene m	*Mayville*

Bahlert, Ruth Martha	*Pound*
Bailey, Lorraine Julia se	*Superior*
Baines, Marguerite	*Janesville*
Baker, Roger Denio	*Amherst, Mass.*
Bamford, George Joseph	*Plymouth*
Bartels, Alice H. Sprague	*Sheboygan*
Batterman, Helen Carolyn	*Elgin, Ill.*
Bauder, Donald Clinton	*Geneva, Ill.*
Bauman, Walter Edward	*Milwaukee*
Baumann, Eugenie Adele	*Winona, Minn.*
Beach, Bertha Schuster	*Madison*
Beattie, Lois Beryl	*Washington, D. C.*
Bellack, Richard Franklin	*Columbus*
Bemis, Josephine Doris se	*Rice Lake*
Bennett, Johnson	*Chicago, Ill.*
Bennett, William Harold m	*Ft. Atkinson*
Bensley, Virginia	*Chicago, Ill.*
Berger, Walter Jesse	*Cleveland*
Bergner, Hertha se	*Sheboygan*
Betz, Marjorie Ann	*Fairmont, Minn.*
Bezold, Marie Christine se	*So. Germantown*
Bieberstein, Adolph Joseph l	*Phillips*
Bird, Ruth Melville	*Kansas City, Mo.*
Birnbaum, Frank Albert m	*La Crosse*
Bjornson, Marion L. se	*La Moure, N. D.*
Bleakley, Louise Blanche se	*La Crosse*
Blinks, William Nathaniel	*Kalamazoo, Mich.*
Blodau, Ottilia Caroline se	*Madison*
Bloodgood, Francis Joseph	*Milwaukee*
Blossom, John Dickson	*Peoria, Ill.*
Blum, George Louis, Jr.	*Madison*
Bock, Adolph B. C.	*Sheboygan*
Boerner, Gladys Marie se	*Milwaukee*
Bogue, Everett Alan l	*Poynette*
Bolles, Margaret M.	*West Salem*
Bolliger, Louise Virgilia se	*Madison*
Bosshard, John Adolph	*Bangor*
Botten, Isa Olivia se	*Boscobel*
Bowser, Edward Rexford	*Superior*
Brachman, Louis m	*Milwaukee*
Brandt, Elsie Margaret	*Indianapolis, Ind.*
Breene, Agnes Theresa se	*Reedsburg*
Brehmer, Robert George se	*Fond du Lac*
Breister, Benjamin Walter m	*Fond du Lac*
Breitenstein, Melvin Addison	*Stockton*
Briggs, Mary Elizabeth	*Madison*
Brindley, Emma Dowling m	*Boscobel*
Bromley, Frances Latham se	*Birmingham, Mich.*
Brooks, Arbie LeRoy m	*Madison*
Brooks, Irene Groth se	*Madison*

Brown, Margaret Louise	*Waupun*
Brownell, Mary Alice se	*Madison*
Brundige, Lyla Ruth	*Geneva, Ill.*
Bruske, Herbert Edward	*So. Milwaukee*
Bryant, Mildred Leigh	*Wauwatosa*
Buckley, William Edward	*Portage*
Buell, Harold Clark	*Lake Geneva*
Burchard, Mary Janet se	*Ft. Atkinson*
Burnham, Charles Russel	*Ft. Atkinson*
Burrows, Benjamin H. se	*Boardman*
Buswell, Ruth Thora	*Iola*
Butler, Eleanor Bell se	*Chicago, Ill.*
Butts, Porter Freeman	*Springfield, Ill.*
Callender, Winston	*Brookhaven, Miss.*
Canuteson, Ralph Irving m	*Madison*
Carey, Charles Albert	*Pittsfield, Ill.*
Carey, Leon A.	*Marion*
Carpenter, Margaret Marie se	*Baraboo*
Cavanagh, Gladys Louise se	*Madison*
Chang, Frank Hsi-Lu	*Tientsin, China*
Chapman, Edwin James m	*Oshkosh*
Chapman, Vera Catherine	*Great Bend, Kan.*
Charmley, Beulah M.	*Madison*
Cherry, Jeannette se	*Kenilworth, Ill.*
Chou, Chen-Sheng	*Chunking, China*
Clancy, Doreen Cecilia se	*Eau Claire*
Christoph, Earle	*Hamilton, Lake, Fla.*
Clark, Elizabeth Adele	*Lead, S. D.*
Clark, Norman Charles	*Milwaukee*
Clemens, Violet Marie	*Superior*
Closs, John O'Neill	*St. Louis, Mo.*
Coffey, Lucile Patricia se	*Sycamore, Ill.*
Cohen, Jesse	*Milwaukee*
Colbeck, Myron Burton	*Superior*
Cole, Lois Alberta se	*Norwalk, Ohio*
Conklin, Margaret Grinselle	*Madison*
Coogan, Mary Eugenia se	*Watertown*
Cooper, George Olds	*Evanston, Ill.*
Corbett, Catharine Mary se	*Plymouth*
Cornelius, John Church	*Madison*
Coutu, Henry Joseph Walter	*Madison*
Covert, Marjorie Anna se	*Albany, Mo.*
Cowan, Elizabeth Tuttle se	*Kansas City, Mo.*
Cox, Elizabeth Jean	*Wayland, Mass.*
Coyne, James Howard m	*Madison*
Crandell, Luetta Bernice	*Oak Park, Ill.*
Crane, Frank Dougall	*Bloomington, Ind.*
Crane, Frederica Wells	*Quincy, Ill.*
Cronkhite, George Parker	*American Falls, Idaho*
Curry, Charlotte Jane se	*Terre Haute, Ind.*

Danielson, Helen Juliet se	*N. Milwaukee*
Darby, George Odell Switzer	*Brodhead*
Davis, Shirley Ellen	*Milwaukee*
Dawson, John Coleman	*Dalhart, Tex.*
Dean, Dorothy Marion	*Glenwood City*
Dedrick, Calvert Lampert	*Madison*
Demetropulos, Nicholas Demetrius m	*Madison*
Desmond, John William l	*Milwaukee*
Deutsch, Harold Charles se	*Milwaukee*
Devine, Kathryn Jane	*Madison*
De Voy, Ruth Viola se	*Madison*
Dick, Irma Josephine se	*Marshfield*
Dietrch, Dorothea Patefield se	*Superior*
Dietrich, Katharine Packard	*Madison*
Diment, Alice Mary se	*Mazomanie*
Dodd, Iva Miriam	*Des Moines, Iowa*
Dodd, John Morris m	*Ashland*
Doerr, John Edward se	*Mt. Vernon, Ind.*
Dopp, Frank Casper	*Superior*
Douglas, James Kenneth	*Milwaukee*
Douglas, Reinette Elizabeth	*Milwaukee*
Drake, Emmet Addis	*Mendota*
Drought, Rose Alice	*Milwaukee*
Duffy, Edward Francis	*Watertown*
Durand, Loyal	*Milwaukee*
Eagleburger, Lawrence Sidney m	*Madison*
Eddy, Wilbur Joseph	*Canon City, Col.*
Ehrlich, Kamma Evelyn se	*Racine*
Eichhorst, Marie Dorothy	*Milwaukee*
Eken, Ruth-Jeanette se	*Madison*
Ekern, Lila May	*Madison*
Ellingson, Harvey Thomas	*Wautoma*
Elliott, William m	*Madison*
Elsom, Elizabeth Reams	*Madison*
Elsom, Kendall Adams m	*Madison*
Engelhard, Alfred Benjamin	*Chicago, Ill.*
Engelmann, Victor Emil m	*What Cheer, Iowa*
Eschweiler, Paul	*Madison*
Evans, Eileen Frances	*Milwaukee*
Evenson, Earl E. m	*Antigo*
Everson, Dorothy Amelia	*Hudson*
Fairbanks, Isabelle Adelaide	*Springfield, Ohio*
Farnsworth, Richard Wiggin	*Janesville*
Fathauer, Margaret Louise	*Chicago, Ill.*
Fearing, Kenneth Flexner	*Oak Park, Ill.*
Fehrer, Florence Louise se	*Milwaukee*
Feldman, Samuel Snow m	*Madison*
Fenn, Camilla	*Prophetstown, Ill.*
Field, Ted Howard l	*Rice Lake*
Finley, George William se	*Fontana*

Fitch, Dorothy Helen se	*Hudson, S. D.*
Fitzgerald, John Drake	*Milwaukee*
Flower, Gratia Lee	*Culbertson, Ohio*
Fogleman, Thomas Burney se	*Westfield, Ind.*
Fox, Florence	*Glencoe, Ill.*
Frank, George Dewey	*Davenport, Iowa*
Franklin, Henry Myar	*Chicago, Ill.*
Frautschi, Walter Albert	*Madison*
Fredrick, Harry Yoman m	*Westfield*
Frenstad, Lila Mildred se	*Westby*
Freriks, Sophia se	*Waupun*
Fritsche, Oscar Otto	*Madison*
Frye, Mildred Sarah se	*Sparta*
Fuller, Katharine se	*Madison*
Gaffney, Margaret Mary se	*Madison*
Gallagher, Alva Teache	*Sterling, Ill.*
Gallas, Fannie Foye se	*Milwaukee*
Gannon, Elsie Kathryn se	*Mukwonago*
Gaskell, Lois Nancy se	*Duluth, Minn.*
Gausewitz, Walter Herman	*Madison*
Gebhardt, Anna Louise se	*Juneau*
Geske, Walter Albert	*Colgate*
Gibson, Douglas Nelson m	*Cumberland*
Giles, Adeline Marion	*Palmyra*
Gill, Ralph Gregory	*Madison*
Gilmore, Eugene Allen, Jr.	*Manila, P. I.*
Gissal, Elizabeth Emma Ann	*Alton, Ill.*
Glennon, Bertha Edith	*Stevens Point*
Gleysteen Agnes Jean se	*Lamberton, Minn.*
Godfrey, Theodore Bruce	*Aurora, Ill.*
Goetz, Loraine Ernestine se	*Milwaukee*
Goldsmith, Walter Joel	*Milwaukee*
Gormley, Doris se	*Spokane, Wash.*
Gower, Dorothy Emma se	*Odell, Ill.*
Grady, Lorna Voigt	*Watertown*
Graper, Laura Mabel se	*Ft Atkinson*
Gray, Esther Lucile	*Platteville*
Gray, Nellie June se	*Delavan*
Gray, Rodney Jones m	*De Forest*
Greene, Harriette Louise se	*Evansville*
Grieve, Florence Delaplain	*Madison*
Gulson, James Arthur	*Black Earth*
Gurley, Kathryn	*Purdy, Mo.*
Guy, Emmet Frank	*Milwaukee*
Haase, Gertrude Marie se	*Milwaukee*
Haber, Sam Loeb	*Milwaukee*
Habighorst, Edgar William	*Marinette*
Hagan, Helen Edith	*Dayton, Ohio*
Hale, Elizabeth Louise se	*Chicago, Ill.*
Hall, Theodore Faxon	*Detroit, Mich.*

Hamlin, Marie Ruth se	*Ft. Scott, Kan.*
Hammond, Lydia Bronwen se	*Wales*
Hanson, Lucille Geraldine se	*Eau Claire*
Hardigg, Ann Dorothy se	*Evansville, Ind.*
Harkness, Elnora Louise	*Chicago, Ill.*
Harmison, H. Ruth	*Madison*
Harrier, Edna Mary	*La Crosse*
Harriman, Celia Jane	*Appleton*
Harris, Ellen Wilson	*Athens, Pa.*
Harrison, Gwen Irene se	*Sparta*
Harrison, Lillian Mauro se	*Keith Inch, Mo.*
Harrison Vera se	*Milwaukee*
Hartman, Leone Anne	*Madison*
Hastings, Laurens Grose	*Bronxville, N. Y.*
Haswell, Helen Alvira	*Madison*
Haswell, Rachel Loomis	*Madison*
Hatfield, Margaret Ellen m	*Madison*
Hausmann, Carl Genal	*Madison*
Haven, Anita Katherine	*Hudson*
Hazelwood, Clark l	*Madison*
Heath, Harold John m	*Madison*
Heckman, Ray Mathias	*Madison*
Heim, Frances Teresa se	*Madison*
Heinl, Lorna Cecelia	*Toledo, Ohio*
Heise, Cornelia Dorothea l	*Madison*
Heller, Philomena Bernadette se	*Sinsinawa*
Henderson, Napier Ambrose m	*Madison*
Hendra, Elmore Hutchison	*Madison*
Hendry, Allan Penfield l	*Madison*
Henrickson, Hilding Frederick	*Rockford, Ill.*
Henry, Erma Nelson se	*Beloit*
Hermes, Mabel Cecelia	*Racine*
Hermsmeier, Eleanor Mathilda se	*Madison*
Herrman, Roy Frederick m	*Sparta*
Herzberg, Willis Sidney	*Milwaukee*
Heuer, Lilah Mae se	*Oshkosh*
Hiatt, Alfred Hoffman	*Peoria, Ill.*
Hicks, Charles Henry	*Madison*
Hicks, Gladys Ellen	*Madison*
Hicok, Alice Ryan wls se	*Hancock, Mich.*
Hilbert, Philip Fox	*Milwaukee*
Hill, Robert Eugene	*Madison*
Hindes, Herbert John m	*Ableman*
Hinman, Sturtevant l	*Winnetka, Ill.*
Hintze, Anna Laura	*St. Louis, Mo.*
Hipke, Malcolm Maynard m	*Milwaukee*
Hipple, Frances Wardlow m	*Madison*
Hirsh, Herbert William	*Milwaukee*
Hirsig, Josephine Marie	*Madison*
Hoenig, Clara Thuron	*Madison*

Holdahl, Agnes Sophie	*Ellsworth*
Hollmiller, George Charles	*Wisconsin Rapids*
Hopkins, Talcott Thompson	*St. Anthony, Idaho*
Hoskins, Belva May	*Bloomington*
Hsu, Stanley Chitsen	*Shanghai, China*
Hunter, Frank Whetzel	*Fox Lake*
Hunting, Helen Thompson se	*Cedar Rapids, Iowa*
Hutton, Helen	*Denver, Col.*
Hyde, Elmer Harold	*Milwaukee*
Immel, Leone Charlotte	*Fond du Lac*
Ingebritsen, Henry Percival	*Madison*
Jacobs, Lois Eleanor se	*Cleveland, Ohio*
Jaeger, Ruth Emilie	*Ixonia*
James, Margaret Hughes	*Dousman*
Jenkinson, David Lester m	*Minocqua*
Jobse, Mabel Ruth se	*Milwaukee*
Johnson, Alice Carolyn se	*Waupaca*
Johnson Dorothy Cornelia	*Sioux Falls, S. D.*
Johnson, Gertrude Dorothy se	*Rockdale*
Johnson, Howard Lawrence	*Racine*
Johnson, Lester Rolland	*Brandon*
Johnson, Vincent Clifton m	*Madison*
Johnson, William Leonard	*Stanley*
Jones, Anita Margaret se	*Spring Green*
Jones, Arletta La Von se	*Black River Falls*
Jones, Dorothy se	*Madison*
Jones, Ralph Earl m	*Plymouth*
Joppa, Everett Louis	*Deerfield*
Jung, Josephine se	*Milwaukee*
Kaderabek, Erwin Joseph m	*Manitowoc*
Kahle, Irma Violet se	*Milwaukee*
Kantor, Jennie m	*Beloit*
Kasiska, Raymond John	*Baraboo*
Kauffman, Chloe Helen se	*Princeton, Mo.*
Kavana, Eliza	*La Grange, Ill.*
Keech, Josephine Sara	*Racine*
Keith, George Mason l	*Dalton*
Kellogg, Grace Hopkins	*Milwaukee*
Kennedy, Sarah Katherine	*Youngstown, Ohio*
Kenney, Catherine se	*Madison*
Kenny, Eleanor Carr	*Mattoon, Ill.*
Kerr, Georgiana Mildred	*Green Bay*
Kimmel, Mabel Elizabeth se	*Elk Point, S. D.*
Kimmell, Elsie Mae se	*Kewanee, Ill.*
Kingsford, Helen Stewart se	*Baraboo*
Kissel, Milton John	*Hartford*
Klaesson, Kathryn Bertram	*Stoughton*
Klein, Margaret Viola	*Ft. Atkinson*
Klosterman, Clara Flora se	*Shawano*
Klueter, Emily Mary se	*Madison*

Klueter, Katherine Dorothy	*Madison*
Klug, Arleen Druse se	*Milwaukee*
Knight, Ellen Charlotta	*Evanston, Ill.*
Knights, Ida Belle	*East Aurora, N. Y.*
Knippel, Susan Jane	*Milwaukee*
Koenig, Esther Otelia	*Sioux Falls, S. D.*
Koepcke, Gerald Meinhardt m	*Madison*
Kojis, Ferdinand George m	*Milwaukee*
Kolicek, Marie Marcella se	*Mishicot*
Kopplin, Julius August se	*Fall Creek*
Kossoris, Max	*Milwaukee*
Kowalke, Marie Henriette	*Sheboygan*
Kresge, Vernia Pauline	*Green Bay*
Kriz, George Alan m	*Milwaukee*
Krohn, Robert Tollack m	*Black River Falls*
Kubly, Louise Florence se	*Monroe*
Kuehl, Wilma Ida se	*Fountain City*
Kvammen, Olga Marie se	*Decorah, Iowa*
Kyle, Charles Cuscaden	*Menomonie*
Lamb, Sarah Janette se	*Janesville*
Lambrecht, Marguerite se	*Madison*
Larsen, Erling Noer m	*Colfax*
Larson, Lucile L.	*Madison*
Leicht, Henriette Louise se	*Winona, Minn.*
Leitzell, Muriel Jane se	*Benton*
Lemcke, Nora Bertha se	*Middleton*
Lenher, Samuel	*Madison*
Levitt, George m	*Phillips*
Lewis, Frances Alice se	*Madison*
Libbey, Eleanor Ruth se	*Oshkosh*
Liebermann, Albert Bellack m	*Watertown*
Lieberman, Ben m	*Milwaukee*
Ligon, Anne Carr	*Madison*
Lingenfelder, Doris Amy	*Rosebud, Mo.*
Link, Walter Karl	*La Porte, Ind.*
Lins, Beatrice Martha m	*Spring Green*
Lo, Lung Chi	*Anfushen, Kiangsi, China*
Lockhart, Margaret Janet se	*Milbank, S. D.*
Logan, Hazel Lillian se	*Edwardsville, Ill.*
Lorentz, Nancy Ranghild se	*Chicago, Ill.*
Louden, Roberta Biddle	*Fairfield, Iowa*
Lowe, Edna Mae se	*Algonquin, Ill.*
Ludden, Raymond Horace m	*Bloomington*
Luidens, Henry m	*Holland, Mich.*
Lunday, Mary Ella se	*Minden, La.*
Lynaugh, Sabina Mary se	*Madison*
Lynch, Marion Lavon se	*Delavan*
Lyons, Edith Roberts	*La Crosse*
McCarthy, Mary Bernice se	*Eden*
McClintock, Marian Adeline	*Galva, Ill.*

McCollum, Bernice Claire	*Stillwater, Minn.*
McCormick, Mary Charlotte se	*Tomahawk*
McCoy, Josephine Alexander	*Springfield, Ill.*
McDonald, John Edwin m	*Madison*
MacGeorge, Aileen Eleanor	*Stone Lake*
McKeegan, Ethel Harriet se	*Rock Valley, Iowa*
McKivett, Charles Christianson	*Racine*
McKone, Fern Marie	*Green Bay*
MacLean, Thomas Alexander	*Danville, Ill.*
McMurtrey, Ruth Marie	*Great Falls, Mont.*
McNair, E. Ralph m	*Brodhead*
Maas, Wilhelmina Bertha	*Indianapolis, Ind.*
Mabley, Elaine Elizabeth	*St. Louis, Mo.*
Madsen, Della Eleanor se	*Oregon*
Mann, Della Garrett	*Chicago, Ill.*
Manville, Jeannette Elizabeth	*Sheboygan*
Marsden, Wendell Herbert m	*Fennimore*
Marsh, Gladys Margaret se	*Madison*
Marshall, Janet Kathryn se	*Milwaukee*
Martens, Alice Lillian se	*Kaukauna*
Martin, Albert Franklyn	*Chicago, Ill.*
Matteson, Beatrice Elizabeth	*Clintonville*
Mayer, Dorothy Luella se	*Devils Lake, N. D.*
Means, Mildred Alletta se	*Edgar*
Megeath, Metta Miller	*New York, N. Y.*
Meng, Eugene Charles	*Madison*
Mercer, Isabel Gillette	*Saginaw, Mich.*
Mercil, Marie Anastasia se	*Crookston, Minn.*
Merritt, Frances Hayward se	*Lockport, N. Y.*
Metcalf, Ralph J. m	*Spring Green*
Meyer, Carleton Wiepking	*Washington, D. C.*
Meyer, Ovid Otto m	*Rosholt*
Meyers, Gladys Anne	*Madison*
Meyland, Guenther Christian se	*Milwaukee*
Midelfort, Margaret Elizabeth	*Eau Claire*
Milliren, Russell Edward m	*Stockholm*
Mitchell, Marion McLean se	*Madison*
Mitchem, John Foster	*Harvard, Ill.*
Mjelde, Bjarne A.	*Madison*
Moehlman, Freda Ann se	*Madison*
Moeller, Frithjof se	*Iola*
Mollerus, Dorothy Elizabeth	*Milwaukee*
Montgomery, Irene	*Findlay, Ohio*
Moody, Lorraine	*Pueblo, Col.*
Mooradian, Margaret Atta se	*Madison*
Moore, Helen Stuart	*Cape Girardeau, Mo.*
Moore, Margaret	*Thorntown, Ind.*
Morgan, Mildred se	*Madison*
Morrison, John Taylor m	*Owensboro, Ky.*
Morse, Anna Irene	*Appleton*

Moulding, Arthur Tilt	*Chicago, Ill.*
Moulding, Joseph Watkins	*Lake Delavan*
Mueller, Rosella Elizabeth se	*Madison*
Muggleton, Esther Dempey	*Janesville*
Mulvey, Dorothy Marie se	*Fennimore*
Munn, Rose Leonice	*Superior*
Muren, Myrtle Gertrude se	*Madison*
Myers, Mabel Lydia	*Ft. Recovery, Ohio*
Nashold, Mariam Lucille se	*Madison*
Naujoks, Herbert Hugh	*Milwaukee*
Nerdrum, Ruth Elfreda	*Madison*
Nesbit, Mark Edwin m	*Pleasantville, N. Y.*
Netzow, Lillian Cecille se	*Milwaukee*
Newell, Pauline La Tuurette se	*Evanston, Ill.*
Newell, Virginia se	*Eau Claire*
Nimmow, Thekla Mathilda se	*Ableman*
Noer, Rudolf Juul m	*Wabeno*
Nolte, Ruth Rosamond	*Wauwatosa*
Nooter, Marie Jean	*St. Louis, Mo.*
Oatway, William Hanlon m	*Waukesha*
O'Brien, Dan Francis	*Roberts*
O Brien, George Marshall	*Elkhorn*
Oldenburg, Edith Marie	*Madison*
Olsen, Marshall Raymond	*Rice Lake*
O'Malley, Letitia Magdalen	*Madison*
Orth, Olivia Tecla	*Milwaukee*
Osgood, Marian Grace	*Madison*
O'Shea, Katharine Gaylord	*Madison*
Outhouse, Alice Irene m	*Madison*
Owens, Mildred Dorothy	*Utica, N. Y.*
Oyaas, Harold Frederick	*Eau Claire*
Paciotti, Roland Arthur	*Eveleth, Minn*
Packard, John Sanderson m	*Rhinelander*
Page, Arlene Lenora	*Elkhorn*
Page, Ida Millicent se	*Milwaukee*
Palmer, Elsie Dorothy se	*Eau Claire*
Parr, Dola Evangeline se	*Madison*
Paull, Roscoe Alton m	*Ridgeway*
Paulson, G. Owen	*Washburn*
Pearse, Benjamin Hughes	*Milwaukee*
Pergande, Margaret Theresa se	*Milwaukee*
Perrodin, Chester Alexander m	*Wisconsin Rapids*
Perstein, Frances Ruth	*Madison*
Petterson, Walter Hastrop	*Watertown*
Pfeifer, Robert Fulton	*Sheboygan Falls*
Platz, Louise Margaret	*La Crosse*
Poppe, Cornelius	*Sheboygan*
Poser, Edward Falk m	*Columbus*
Powers, Joseph Martin	*Fargo, N. D.*
Powers, Ruth Deborah se	*St. Paul, Minn*

Prange, Helen Bodenstein	*Sheboygan*
Prehn, Douglas Theodore m	*Wausau*
Price, Catherine Leila se	*Milwaukee*
Price, Frederick Prescott, Jr. l	*Milwaukee*
Prien, Elza Johanna se	*Madison*
Pritzlaff, Richard George	*Milwaukee*
Puehler, Mary Ursula se	*Madison*
Rakosi, Carl Schiller se	*Kenosha*
Randall, Christian John l	*Woodville*
Randolph, Mary Elizabeth	*Lafayette, Ind.*
Rathert, Charles Edward m	*Chilton*
Raymond, Jessie Lauretta se	*Madison*
Reader, Marleine Elizabeth se	*Delavan*
Redeker, Dorothy June	*Elgin, Ill.*
Redeman, Mildred Ida se	*Kiel*
Reitan, Thora Mathilda	*Bonduel*
Rice, Elizabeth Bernadine se	*Escanaba, Mich.*
Richter, Marion Christine se	*Yakima, Wash.*
Riesterer, Mildred Leonora se	*Wheaton, Ill.*
Riley, Elizabeth Lyner	*Madison*
Ritchie, Gorton m	*Evanston, Ill.*
Ritter, Vesta Viola se	*St. Joseph, Mo.*
Robbins, Holden John m	*Madison*
Roberts, Arthur George	*Fond du Lac*
Rogers, Carl Ransom	*Glen Ellyn, Ill.*
Rooney, Mildred Frances se	*Milwaukee*
Rosenberg, Sylvia H	*Plymouth*
Ross, Helen Virginia	*Mineral Point*
Roth, Alpha Wilma se	*Lancaster*
Rowland, Hila Beth	*Osseo*
Rowley, James Arthur m	*Wausau*
Ruffolo, Anthony Frank m	*Racine*
Rutte, Louis Bernard	*Leopolis*
Saenger, Esther Maria	*Waukegan, Ill.*
Salb, Irene se	*Berwyn, Ill.*
Sammis, Flora Elizabeth	*Madison*
Sample, Omar Hendley	*Madison*
Sander, Oscar A. m	*Madison*
Sanderson, George Webster	*Ironwood, Mich.*
Schaefer, Arthur Albert	*Milwaukee*
Schafer, Paul Abbott	*Madison*
Scheier, Joseph Burr l	*Milwaukee*
Scherr, August John se	*Milwaukee*
Schlicher, Mary Hildegarde se	*Madison*
Schmitz, Catherine Henrietta se	*Waunakee*
Schmuck, Robert Brouse	*Indianapolis, Ind.*
Schoen, Norma Esther	*Milwaukee*
Schumacher, David Emil	*Milwaukee*
Schwab, Dorothy Grouse	*Merrimac, Mass.*
Scott, Bernice Marjorie se	*Cambridge*

Scott, Dorothy Elsina se	*Hudson*
Seaman, Frances	*Milwaukee*
Seering, Harold Albert l se	*Shawano*
Sell, Ethelyn Beatrice se	*Reeseville*
Sell, Mildred McCune Smith	*Madison*
Sellery, George Bapty	*Madison*
Shanks, Mertis Isabel se	*Merrimac*
Shapiro, Herman Harvey	*Madison*
Shapiro, Lazare Melvin m	*Madison*
Shaw, Gerald William m	*Waunakee*
Sheltman, Emmy-Lou	*Louisville, Ky.*
Shen, Eugene Ming Shu	*Soochow, China*
Sherry, Ruben Henry	*Viroqua*
Shonka, Irene Alice	*Schuyler, Neb.*
Siegel, Nathan Seldon	*Superior*
Simon, Harry m	*New York, N. Y.*
Sinclair, David	*Pasadena, Cal.*
Sisson, Dorothy Allison se	*Madison*
Slattengren, Gerard Bernard	*Riverside, Ill.*
Smith, Ada Belle se	*Milwaukee*
Smith, Alethea Elizabeth se	*Madison*
Smith, Eulalia Margaret	*Madison*
Smith, Evlyn Spring se	*Merrill*
Smith, Leonore Marie se	*Early, Iowa*
Smith, Marjorie June se	*Beaver Dam*
Smith, Theodore Jonathan m	*Tomah*
Snoddy, William Owsley	*Glasgow, Ky.*
Snow, Josephine Ferris se	*Ottawa, Ill.*
Snydacker, James Underhill	*Kenilworth, Ill.*
Soderberg, Edna Madeline se	*Barron*
Solbraa, Beulah Josephine se	*Stoughton*
Sommer, Arno William m	*Sheboygan*
Spittler, August Wesley m	*Fountain City*
Splitter, Henry Winfred	*Madison*
Spooner, Alexander Dwight m	*La Verne, Iowa*
Staab, Lulu Dorothea	*Wall Lake, Iowa*
Stehr, Raymond Albert	*Madison*
Steinberg, Morton Haskell	*Detroit, Mich.*
Stephens, Harmon Bross	*Nampa, Idaho*
Stoker, Ruth Elizabeth	*Winnetka, Ill.*
Story, Mayo	*Bozeman, Mont.*
Strachan, Clyde Graham	*Tomah*
Strain, Marion Elven	*Lamar, Colo.*
Strande, Avice Marie se	*Elroy*
Strom, George Arthur	*White Creek*
Strong, Katharine	*Canton, Ill.*
Sullivan, Samuel John m	*Madison*
Summers, Myrl Aurelia se	*Huntington, Ind.*
Sumner, Willard Carlyle m	*Madison*
Sun, Tsing-faung Alfred	*Shanghai China*

Swanson, Adele Evelyn	*Geneva, Ill.*
Swift, George	*Chicago, Ill.*
Taft, Merrill Edward	*Whitewater*
Taggart, Horace Rollins	*Madison*
Taylor, Susan Lois se	*Detroit, Mich.*
Tegtmeyer, Gamber Fred	*Milwaukee*
Tesar, Ina Margaret se	*Prairie du Chien*
Thauer, Marion Henrietta	*Watertown*
Thiel, Wilferd Ardell m	*Marshfield*
Thoeny, Oscar Walter m	*Fountain City*
Thomas, Marjorie Marilyn	*Fairfield, Ill.*
Thomas, Mildred Louise se	*Pierre, S. D.*
Thomas, Warren Stratman	*Minneapolis, Minn.*
Thompson, Albert Wheeler	*Milwaukee*
Thompson, Robert Clendenning m	*St. Croix Falls*
Thompson, Robert Reese l	*Oshkosh*
Thorson, Sidney Reuben	*Madison*
Tobey, Edith Louise	*Wausau*
Topp, Gladys Lillian se	*Clintonville*
Tower, Richard Henry	*Beloit*
Trautmann, Milton m	*Appleton*
Tuckerman, Gustavus, Jr.	*St. Louis, Mo.*
Tuhus, Mabel Louise se	*Viroqua*
Turner, Mary-Soulard	*St. Louis, Mo.*
Turner, Michael	*Duluth, Minn.*
Tuttle, Fordyce Eddy	*Madison*
Tyler, Jimmie Elmer (Miss)	*Madison*
Tyrrell, Helen Edith	*Lake Geneva*
Urban, Faith Leola se	*Wauwatosa*
U'Ren, Dora Mae se	*Argyle*
Vander Kamp, Harry m	*Holland, Mich.*
Van Ess, Arline se	*Adell*
Van Steenburg, Victor	*Lansing, Ill.*
Wain, Ellia Rachel se	*Chisholm, Minn.*
Waite, Dorothy Irene	*West Salem*
Walker, Carol Anne se	*Markesan*
Walker, Howard McKinley m	*Madison*
Wang, Chi Chen	*Tsinanfu, China*
Wanzer, Gordon Bradley	*Chicago, Ill.*
Watson, James Torrence	*St. Louis, Mo.*
Weber, George Edwin l	*Youngstown, Ohio*
Wechselberg, Edith Ruth	*Milwaukee*
Wegel, Ethel Lucille se	*Fond du Lac*
Wendnagel, Mary Elizabeth	*Chicago, Ill.*
Werrell, William Alexander m	*Madison*
Wesely, Vannita Lucile wls	*Owatonna, Minn.*
Wheeler, Helen Anne	*Columbus*
Wheeler, Pearl Elizabeth	*Superior*
White, Shirley Ann	*River Falls*
Whitehead, Francis Crosby	*La Grange, Ill.*

Whitman, Marcus l se	*Baraboo*
Whitright, Gerald Maxwell	*New York City*
Wilgus, Dorothea	*Platteville*
Wilken, Rodney Frederick l	*Whitehall*
Willard, Henry Matthew se	*Stoughton*
Williams, Bertha Helen	*Madison*
Williams, Dorothy Elizabeth	*Milwaukee*
Williams, Frances Elizabeth	*Platteville*
Williams, Horrell Jackson	*Madison*
Williams, Price Randall	*Dodgeville*
Wilson, Catherine Smith	*Muskegon, Mich.*
Wilson, E. Jeanette	*Burlington*
Wilson, Irma Lucile	*Madison*
Wimmler, Mildred Frieda se	*Cleveland*
Winter, Kathryn Elizabeth	*Madison*
Wittenberg, Wilber William	*Milwaukee*
Wolfert Agnes Catherine	*Lena*
Woods, Daniel Lindley m	*Madison*
Wray, Alice May se	*Wilmette, Ill.*
Wright, Frances Adaline se	*Sparta*
Wu, Y Charles L.	*Changshu, China*
Wyckoff, Helen Mead se	*Alton, Ill.*
Young, Adelbert Jacob se	*Colby*
Zarne, Leon Weiss	*Milwaukee*
Zimmerman, Lee Franklin	*Shamokin, Pa.*

Course in Commerce

Albrecht, Clarence William	*Madison*
Anderson, Calmar Thorfin	*Chippewa Falls*
Anstey, Helen Belinda	*Madison*
Anstey, Mabel Elizabeth	*Madison*
Arvidson, Reuben Dewey	*Marinette*
Aschenbrenner, Edmund Lawrence	*Park Falls*
Ball, Mary Manning	*Brooklyn, N. Y.*
Banner, Edward Anthony	*Chicago, Ill.*
Bardeen, Frank Adelma	*Milwaukee*
Barnes, Elizabeth Kathryn	*Aberdeen, S. D.*
Bates, Wilfred Bartlett, Jr.	*Madison*
Baxandall, Raymond William	*Fall River*
Beach, George Harrison	*Whitehall*
Becker, George Mortimer	*Wauwatosa*
Beggs, Stanley Robert	*Hudson*
Below, Martin Paul	*Oshkosh*
Benbow, Robert Leslie	*Aberdeen, S. D.*
Berkley, Bessie Ruth	*Baraboo*
Bilansky, Joseph Hyman	*Milwaukee*
Bingham, Robert Ashton	*Superior*
Black, Robert Wilmer	*Baltimore, Md.*
Blair, Cameron A.	*Plainfield*

Blix, Laura Margaret	*Turtle Lake*
Boese, William Frederick	*Ripon*
Bond, Clayton M.	*Muscatine, Iowa*
Bongey, Alfred Rudolph	*Madison*
Bork, Herbert Arnold se	*Milwaukee*
Brann, August Franklin	*Bailey's Harbor*
Brigham, Marguerite Irene	*Madison*
Bunker, Addie Laurie	*Turtle Lake*
Cannon, Earl Nelson	*Delavan*
Christena, Francis Wesley	*Indianapolis, Ind.*
Christianson, Herbert Otto	*Cambridge*
Clark, Philip Edmund	*Milwaukee*
Conway, Helen Luft	*Wisconsin Rapids*
Cornwell, Earl Rossevelt	*Beloit*
Crummey, Mabel Lucille	*Madison*
Dahl, Lawrence Gustave	*Marinette*
Daniels, Harold Edwin	*Oak Park, Ill.*
Davies, Thomas Homer	*Madison*
Denig, Herbert Dave	*Burlington*
Digman, Eric Hubert	*Wauwatosa*
Doehler, Edward John	*Kewaunee*
Dugan, Leo Francis	*Janesville*
Dugan, Ross Frank	*Memphis, Tenn.*
Ebert, Melvin Dinkel	*Charles City, Iowa*
Egan, Oswald Richard l	*Highland*
Ehrlich, Jacob Isaac	*La Crosse*
Engelke, Raymond Leslie	*Ashland*
Enright, Paul Robert	*Mauston*
Fairbank, Nelson Russell	*Fond du Lac*
Falb, Louis Benson	*La Crosse*
Falck, Robert Philip	*Morrison*
Fenisyn, Michael Joseph	*Marinette*
Fronk, William James	*Madison*
Fry, Harold George	*Beloit*
Fuller, Henry Chester l	*Whitewater*
Galby, Manford Casper	*Chetek*
Ganser, Herbert Aloysius	*Sauk City*
Gerlach, Arthur John	*Milwaukee*
Gilland, George Hobart, Jr.	*Cheyenne, Wyo.*
Hawkinson, Herbert	*Eau Claire*
Hemenway, Robert Clark	*Carlsbad, N. Mex.*
Hempe, Arnold Herman se	*Milwaukee*
Hendrickson, Joel Sedwin	*Madison*
Herreid, Thomas Nelson	*Madison*
Hertel, Andrew Henry	*Watertown*
Hetland, Stanley Milton	*La Crosse*
Higgins, Joseph J.	*Aurora, Ill.*
Hiller, Arthur Peter	*Milwaukee*
Hilsenhoff, Raymond Le Roy	*Madison*
Hoffman, Irene Frances se	*Ft. Atkinson*

Hunt, Victor Clifford	*Los Angeles, Cal.*
Hurwitz, Merwyn I.	*Milwaukee*
Isenberg, Oscar Fred	*Baraboo*
Iwen, Wilbert Paul	*Shawano*
Jandrey, Edward Erdmann	*Neenah*
Johnson, Garnett Louise	*St. Cloud, Minn.*
Johnson, Ira Milford	*Wautoma*
Kalbus, Alvin Walter	*Madison*
Karnopp, Harvey Henry	*Almond*
Katz, Meyer Ralph	*New Glarus*
Kelly, George	*Superior*
Kimball, Lyman Burdick	*Janesville*
King, Corinne Catherine	*Mazomanie*
Klemperer, Leo Arnold	*Chicago, Ill.*
Klieforth, Ralph George	*Washington, D. C.*
Klockow, Merrill Henry	*Jefferson*
Knudsen, Harold Rasmus	*Kenosha*
Kober, Kenneth	*Janesville*
Kohl, John Burt	*Juneau*
Kohn, Kathryn Carolyn	*Lake Geneva*
Korfmacher, Raymond Frederick	*Madison*
Krebs, Oswald Armand	*Waupun*
Kyseth, Milton Sabin	*Preston, Minn.*
Laskey, Harold Horace	*Superior*
Lavine, Bennie G.	*Superior*
Lawler, Vanett Catherine	*Rochester, Minn.*
Lemcke, Florence Ruth	*Middleton*
Linke, Blaine M. l	*Beloit*
Lipman, Jack	*Stevens Point*
Livingston, Lois Barber	*Nutley, N. J.*
Luecker, Ralph Frederick	*Brillion*
Lyman, Howard Bertram	*Madison*
Lyon, Evelyn Ree	*Logansport, Ind.*
McCarthy, Eugene James	*Flandreau, S. D.*
McGlasson, Albert Jackson	*Milwaukee*
Mackmiller, George Gilbert	*Ashland*
Magnuson, Gordon Edward	*Elkhart, Ind.*
Major, Harry Arthur	*Crandon*
Merow, Ernie Leo	*Sparta*
Miller, Arthur Richard	*Beloit*
Moeser, Marshall William	*Port Washington*
Moran, Martin Emmett	*Superior*
Morris, Edward David	*Cambria*
Nelson, Lawrence Raymond	*Grand Rapids, Mich.*
Nichols, Irving James se	*Owen*
Niebuhr, Albert Edward	*La Crosse*
Oakford, Calvin Curtiss	*Peoria, Ill.*
O'Hara, Arthur James	*Gary, Ind.*
O'Neill, Josephine Charlotte	*White Lake*
Pagel, Rush	*Egan, S. D.*

Paige, Delbert Romig	*Pueblo, Col.*
Papenfuss, Albert Louis	*La Crosse*
Payne, Joseph Cannon	*Danville, Ill.*
Peltin, Alvin Leonard	*Milwaukee*
Peterson, Alfred Walter	*Waupaca*
Peterson, Walter Theodore	*Virgil, S. D.*
Pfeifer, Russell George	*Madison*
Pope, Henry, Jr.	*Chicago, Ill.*
Purcell, John Robert	*Madison*
Purves, John Hughes	*Appleton*
Qualle, Newell Edwin	*Martell*
Resnick, Leo	*Milwaukee*
Reyer, Otis Henry	*Colby*
Rhode, Bernice Julia	*Kenosha*
Roddewig, Dick	*Davenport, Iowa*
Roesch, Florence Ursula	*Arcadia*
Rogers, Eunice Marie	*Oshkosh*
Ross, Cornelius Austin	*Doon, Iowa*
Saari, Arthur Richard	*Eveleth, Minn.*
Sanborn, Henry Hobbins	*Madison*
Schadde, Esther Henriette	*Baraboo*
Schee, Harold	*Westby*
Schreiner, John	*Lancaster*
Schuetz, Ralph J.	*Middleton*
Schujahn, Edwin Ludwig	*Madison*
Scott, Norman Denton	*Sioux Falls, S. D.*
Searing, William Edward	*Mankato, Minn.*
Seefeldt, Walter George	*Winslow, Ill.*
Shuman, Gilman Leslie	*Madison*
Siegil, Archie Harvey	*Superior*
Siegman, Orra Leslie	*Whitewater*
Slezak, Mildred	*Racine*
Smith, Edgar Jacob	*Fort Atkinson*
Sorenson, Leo	*Whitefish Bay*
Spies, Jacob Alfred se	*Madison*
Starker, Henry Weinrich	*Burlington, Iowa*
Straka, Jerome Anthony	*Milwaukee*
Stuve, Manley Gilbert	*Humbird*
Swenhalt, Caspar	*Madison*
Taylor, Harold Patrick	*Ashland*
Tegen, Albert Frederich	*Manitowoc*
Thompson, Earl Joseph l	*Madison*
Thompson, Eldon La Verne	*McPherson, Kan.*
Thorsen, Adolph Gehard	*Milwaukee*
Tkadlec, Joseph Herman	*Cazenovia*
Tough, Rosalind	*Madison*
Trost, Arthur William George	*Milwaukee*
Tufts, William Bernard	*Withee*
Uhl, Lucille Annah se	*Galesville*
Vonnegut, Carl Richard	*Indianapolis, Ind.*

Weidenfeller, Fred William	*Highland*
Weinman, Philip Alois	*Neenah*
Wells, Charles Lucius	*Platteville*
Wheeler, Julius Morgan	*Menasha*
Wiley, Archie Ray	*Hancock*
Wilkinson, Joe T.	*Benton*
Willard, Walter Bond	*Stoughton*
Williams, Leland Wolcott	*Bear Creek*
Wisch, Carl Fred	*Ft. Atkinson*
Wright, Duey Ervin	*Wausau*
Yahn, Earl Edwin	*Janesville*
Zimmerman, Arthur Antonius	*Wisconsin Rapids*
Zube, Arnold Gerhard	*Shell Lake*

Course in Journalism

Adams, Helen Thayer	*Kansas City, Mo.*
Alberti, Catherine	*Madison*
Bailey, Chester Wayne	*Grand Rapids, Mich.*
Batcheller, Mabel Elizabeth se	*Madison*
Beardsley, Vernon Charles	*Whitewater*
Blumenstock, Loraine	*Ludington, Mich.*
Bohrer, Gertrude Ann	*Bloomington, Ill.*
Boyd, Catherine Hahn	*Sturgeon Bay*
Brown, Rowena Ruth	*Madison*
Burgess, Nella Mae se	*St. Louis, Mo.*
Callsen, Margaret Anne	*Chicago, Ill.*
Capron, Marjorie Ethel	*Madison*
Coates, Josephine Mercer se	*Wausau*
Crane, Ezra Jennings	*Honolulu, T. H.*
Crosse, Richard Hugh	*Harvard, Ill.*
Davis, Anna Irene	*Oskaloosa, Iowa*
Elbel, Bertha Margaret	*South Bend, Ind.*
Foy, Torrey Byers	*Freeport, Ill.*
George, Louise Gottlieb	*Chicago, Ill.*
Hanson, Helen Kilbourne	*Cambridge*
Hanson, Lee Delbert	*Delavan*
Harris, Sumner Joseph	*Sturgeon Bay*
Hecker, James Gordon	*Milwaukee*
Hegelmeyer, Harlow John	*Stoughton*
Jaeger, Harriett Marie	*Madison*
Larkin, Joyce Marie	*Milwaukee*
Lawler, Joseph Francis	*Milwaukee*
Lawton, Dorothy Mildred	*Racine*
Learmouth, George Arnott	*Portage*
McDermand, Marion Jeane	*Manitowoc*
McDonald, Malcolm Alpheus	*New Richmond*
McKellar, Arlene Marieta	*Blanchardville*
Maier, Harold Ryan	*Antigo*
Merrill, George Lowen	*Superior*

Morgan, Mary Margaret se	*Spring Green*
Neese, Ehrmel Wayne	*Madison*
Neff, Marcelia Coad	*Milwaukee*
Odell, Dorothy Reichert	*West Bend*
Peterson, Ephraim Lucius	*Stockholm*
Porter, Edith Augusta	*Washington, D. C.*
Riegel, Oscar Wetherhold	*Neenah*
Roach, Thelma Isabel	*Chicago, Ill.*
Schott, Elizabeth Helen	*Detroit, Mich.*
Se Cheverell, Marian	*Madison*
Shallenberger, Barbara Dorothea	*Alma, Neb.*
Schreffler, Ethel Na Velle se	*Fremont, Ohio*
Sinaiko, Clara	*Madison*
Sinaiko, Edith Elaine	*Madison*
Smith, Robert Michael	*Chicago, Ill.*
Stoffregen, Anna Cathrena	*Riga, Latvia*
Trayser, Donald Grant	*New London*
Ule, Mary Catherine	*Stevens Point*
Vaughan, George Verne	*Stevens Point*
Warren, Frances Hull	*Cedar Rapids, Ia.*
Wiesler, Dorothy Louise	*Milwaukee*
Wille, Wilfred Chester	*Milwaukee*
Wright, Carl Burton	*Mason City, Iowa*
Zierke, Victor William	*Princeton*

Course in Humanities

Bierke, Ida Helene se	*Denmark*
Bilstad, Esther Warne se	*Cambridge*
Eaton, Dorothy Louise se	*Madison*
Edwards, Muriel Montana se	*Malta, Mont.*
Fish, Mildred Elizabeth	*Milwaukee*
Fletcher, Winifred Lucile se	*Kalamazoo, Mich.*
Leiser, Clara Margaret	*Milwaukee*
Sapper, Herbert David	*Madison*
Schindler, John Albert	*New Glarus*
Wallace Sherman LeRoy	*Haddonfield, N. J.*

Normal Course

Alcott, Mildred Berenice	*Madison*
Artz, Lidia Helen se	*Mattoon*
Baar, Florence se	*Sheboygan Falls*
Bartle, Laura Jane se	*Dodgeville*
Berning, Dorris Margaret	*Reedsburg*
Bonnett, Dorothy Grace	*Whitewater*
Bottensek, Anne Elizabeth	*Medina*
Bradle, Leo James	*Laona*
Bredlow, Lulu Elizabeth	*Marshfield*
Burmeister, Eva Elizabeth	*Milwaukee*

Burns, Isabel Anastasia	*Menomonie*
Butler, Frank Arthur se	*Jacksonport*
Caleson, Esther Marie	*Superior*
Davies, Amy Elizabeth	*Oshkosh*
Eastwood, Anna Vera	*Platteville*
Englesby, Marguerite	*Eleva*
Gannon, Ambrose Dominic	*Sedan, Minn.*
Glenn, Frances	*Chilton*
Griffin, Tella Frances	*Albany*
Griffis, Florence Julia se	*Mt. Hope*
Harker, William John	*Argyle*
Hindes, Marguerite Estelle	*Ableman*
Hlinak, Edward Joseph	*Maribel*
Hornback, John Jacob	*Georgetown, Ind.*
Huntington, Gertrude Mildred	*Platteville*
Ingebritson, Otis Clarence se	*Madison*
Johnson, Loma Loraine	*Madison*
Keyes, Mabel Wace	*Beloit*
Kramer, Emily J. se	*Butte, Mont.*
Lang, Edgar Franklin se	*Jefferson*
Leiser, Else se	*Milwaukee*
MacMillan, Jessie Irene	*Elroy*
Maddock, Elizabeth Ellen se	*Alton, Ill.*
Mathews, Ethel Mary	*Colfax*
Mehnert, Martha Caroline se	*Wauzeka*
Murley, Leone se	*Boscobel*
O'Connell, William Francis se	*Roberts*
Peterson, Viola Eleanora	*Geneva, Ill.*
Phillips, Margaret Evelyn	*Randolph*
Pofe, Olga Ernestine se	*Milwaukee*
Quinn, Matthew James	*Madison*
Rasche, Irma Louise se	*Milwaukee*
Springhorn, Rita Katherine se	*Racine*
Stainer, Marie Bertha	*Port Washington*
Stutz, Tekla Eunice	*Oconto*
Swancutt, Ivan Leroy se	*Viola*
Valinshe, Cora Clementine	*Fox Lake*
Wasson, Helen Margaret se	*River Falls*
Whybrew, Cora Alice	*Argonne*
Wilker, Marguerite Fawthrop se	*Wyoming, Iowa*
Woods, Carolyn Louise	*Madison*
Zellner, Joseph William	*Green Bay*

General Course

Busse, Warren F.	*Algoma*
Butler, Lucille Clark	*Reedsburg*
Callen, Carroll Francis	*Milwaukee*
Currie, Ada Irene	*Loda, Ill.*
Deutsch, Rose Irene	*Canton, Ill.*

DeVinney, Sylvan Shetterly	*Madison*
De Witt, Virgil Orr	*Lake Mills*
Dodge, Edward Sabin	*Sioux City, Iowa*
Dorau, Armin Carl 1	*Madison*
Gilson, Elmer Frank se	*Shawano*
Hanson, Mendez Nathaniel	*Whitehall*
Hart, Edmund Elijah	*Elroy*
Hayden, Charles Leslie	*Milwaukee*
Hopkins, Bert Earl 1	*Centuria*
Irish, Russell Johnstone	*Madison*
Jackson, Ben Frank	*Milwaukee*
Mahorney, Florence	*Madison*
Michaelis, Rexford William	*Marion*
Miller, Hazel Katherine se	*Racine*
Moser, Fred Joseph	*River Falls*
Post, Clarence Arthur	*Milwaukee*
Riggert, Edwin William	*Reedsburg*
Robertson, Paul Kedzie	*Evanston, Ill.*
Schneyer, Oscar Louis	*Prairie du Chien*
Smith, Florence Nina se	*Shell Lake*
Soref, Samuel Meyer 1	*Milwaukee*
Steenberg, David Knox	*Madison*
Stegeman, Albert Vinton, Jr.	*Ft. Thomas, Ky.*
Stielow, Emil Fred se	*Sheboygan*
Thompson, Samuel Dean	*Waukesha*
Thorpe, Reed	*Salt Lake City, Utah*
Vosburg, Mary Jeanette se	*Ft. Atkinson*
Walker, Alfred Edwin	*Hinsdale, Ill.*
Walter, Allan Wylie	*Mendota, Ill.*
Williams, Eugene Griswold 1	*Oshkosh*

Chemistry Course

Andrews, Arthur Clinton se	*Bloomer*
Ballam, George Alfred	*Madison*
Christensen, William Charles se	*Madison*
Dunham, Paul Overing	*Elkmound*
Duthey, Mabel Victoria se	*Superior*
Fitchett, Edmund McDonald	*Janesville*
Hoesly, John Jacob	*Neillsville*
Hoffmann, Gilbert Frederick	*Milwaukee*
Huang, Tzu-Ching	*Swatow, China*
Kao, Chung Hsi	*Peking, China*
Manns, Edward Albert	*Oconomowoc*
Mansfield, Harriet Louise	*Okauchee*
Rust, Clarence Arthur	*Edgerton, Minn.*
Sah, Peter Pen-Tieh	*Peking, China*
Taylor, Stanton Eugene	*La Crosse*
Thompson, Berthel Martin	*Superior*
Ward, James Edward	*Elkhorn*
Warmuth, Henry Joseph	*Philadelphia, Pa.*

Course in Physical Education
(School of Education)

Biglow, Elizabeth Agnes	*Evansville*
Boardman, Janice May	*Marshalltown, Ia.*
Brainard, Eleanore H.	*Cleveland, Ohio*
Budde, Helen Irene	*Chicago, Ill.*
Cumming, Janet Mary	*Milwaukee*
Damez, Marie Katherine	*Manitowoc*
Dodge, Dorothy E.	*Newton, Iowa*
Goldsmith, Grace Arabell	*St. Paul, Minn.*
Hall, Maurine	*Normal, Ill.*
Harris, Dora	*Cleveland, Ohio*
Hellebrandt, Frances Anna m	*Oak Park, Ill.*
Henry, Margaret Grace	*Rockford, Ill.*
Kroncke, Gretchen	*Madison*
McKenna, Mary Elizabeth	*Antigo*
Marquis, Jean	*Berwyn, Ill.*
Mathis, Dorothy	*Prophetstown, Ill.*
Mortimer, Carol Marie	*Milwaukee*
Murray, Margaret	*River Forest, Ill.*
Perstein, Yvette Goldberg	*Kenosha*
Schoenberg, Edith Hulda	*Muskegon, Mich.*
Sikes, Eleanor Shepard	*Chicago, Ill.*
Simpson, Dorothy	*Ft. Wayne, Ind.*
Smith, Ethel May	*Carbondale, Kan.*
Sutor, Dorothy Eilene	*Burlington, Iowa*
Watson, Katharine Watson	*Rossville, Ill.*

Course in Applied Arts
(School of Education)

Baldwin, Doris Mae	*Madison*
Daley, Olive Signora	*De Forest*
Day, Eleanor	*Indianapolis, Ind.*
Galvin, Ruth Gwendolen	*Hampton, Iowa*
Hall, Vivian Izora	*Superior*
Jacobsen, Clara Lenore	*Madison*
Johnson, Dorothy Trathule	*Omaha, Nebr.*
Kranert, Isabelle Margaret	*McGregor, Iowa*
Ludwig, Mura Eva	*Milwaukee*
Mapes, La Mona Bernard	*Omaha, Nebr.*
Metcalf, Marian Jessie	*Madison*
Morgan, Eleanor Louise	*Madison*
Schulz, Hilda Marion	*Wauwatosa*
Schurman, Phyllis	*Denver, Col.*
Stanchfield, Georgia Ophelia	*Fond du Lac*
White, Carmen Adell	*Madison*
Wiedenbeck, Frances Theodora	*Madison*
Wild, Sarah Pauline	*Sycamore, Ill.*

Course in Industrial Education
(School of Education)

Gardner, Arthur Otto	*Milwaukee*
Hiemer, Fred Victor	*Milwaukee*
Hunt, Lawrence Edward	*Sulphur Springs, Ind.*
Long, Lewis Oscar	*Bowling Green, Ind.*
Longfield, Charles Samuel	*Madison*
Nicholas, George Howard	*Ely, Minn.*
Parent, Charles William, Jr.	*Florence*
Renner, Frank Joseph	*Madison*
Roberts, Thomas Gordon	*Milwaukee*
Shufelt, Harlan Jeremiah	*Boulder, Col.*
Stocum, Wilbur Emerson	*Oshkosh*
Wald, Arthur	*Republic, Mich.*
Walters, Joseph Theodore	*Two Rivers*
Zoerb, Donald Vincent	*Clinton*

Juniors

Abbott, Cyril Edward	*Elgin, Ill.*
Abbott, Gordon Wells	*Elgin, Ill.*
Adams, Elizabeth Michaux	*Dallas, Tex.*
Advincula, Elenterio A.	*Ivison, Capiz, P. I.*
Alexander, Jean	*Aurora, Ill.*
Alter, Helen Hart se	*River Forest, Ill.*
Amble, Alva Thealina	*Black Earth*
Amory, Thomas Chase	*Walpole, N. H.*
Anderson, Janet Dow se	*Stoughton*
Anderson, Ruth m	*Milwaukee*
Anderson, Wells Foster	*Tomah*
Anundsen, B. B.	*Decorah, Iowa*
Arey, Gordon	*Freeport, Pa.*
Aronstam, Ralph Godfrey	*Detroit, Mich.*
Ashton, Ruth Elizabeth	*Rockford, Ill.*
Atwood, Mary Elizabeth	*Madison*
Austermann, Laura Margaret	*Madison*
Austin, Evelyn Roseanna se	*Wayne, Mich.*
Bach, Catherine T. se	*Milwaukee*
Bachhuber, Alfred Harold	*Mayville*
Backus, Annette Caroline	*Lancaster*
Baird, Harriet Grace se	*Madison*
Baldwin, Raymond Matthew m	*Beloit*
Ballantyne, Virginia Edith se	*Bloomington*
Barnett, Warren Wesley	*Owensville, Ind.*
Barron, Mae Kathryn	*Camp Douglas*
Barry, Leonard Spriggs	*Milwaukee*
Barton, Margaret E. Juliet se	*Madison*
Barwaser, Norbert Clement	*Evansville, Ind.*
Barwig, Byron Ralph, Jr.	*Mayville*

Beahler, Anna Marie se	*Ft. Wayne, Ind.*
Bell, Glen Hugh	*Madison*
Bemis, Gertrude Louise	*Sheboygan*
Benn, Herbert Putnam	*Medford*
Benson, Clifford Dempster	*Iola*
Benson, George Bancroft se	*Richland Center*
Benton, Marjorie se	*Aurora, Ill.*
Berg, George Oscar m	*Madison*
Berger, Ilse Margaret se	*West Dover, Ohio*
Bergstresser, John L.	*Springfield, Ill.*
Berry, Helen Read	*Detroit, Mich.*
Bessey, Evren Matilda se	*Antigo*
Bethke, William Herman	*Stevens Point*
Bicknell, Alice Doherty	*Clare, Mich.*
Bigham, Kathryn Grace se	*Arcadia*
Billings, Burton Gideon	*Madison*
Bingenheimer, Gertrude Harvey	*Milwaukee*
Bingham, Nellie Elizabeth se	*Superior*
Blackey, Eileen Agnes	*Milwaukee*
Blackman, Leola Margaret se	*Shreveport, La.*
Blake, Henry Warren l	*Waupaca*
Blanchard, Eva Irene	*Madison*
Blanchard, Marian	*Elk Rapids, Mich.*
Blatz, Ernestine Louise	*Milwaukee*
Blodau, George Emil se	*Madison*
Bloemendal, Willard Bernard m	*Holland, Mich.*
Boehm, Irene Josephine	*Helenville*
Botsford, Wilhelmina Isabelle	*Janesville*
Bowman, Frank Favill	*Madison*
Boyle, Vilas Joseph	*La Crosse*
Braasch, Theodor William	*Sheboygan*
Brehm, Dorothy Elizabeth se	*Racine*
Breitzman, Elizabeth Mary se	*Fond du Lac*
Breslauer, Clarence M.	*Milwaukee*
Briggs, Frances	*East Grand Forks, Minn.*
Brigham, George Russell	*Madison*
Brindley, Benjamin Isaac	*Boscobel*
Brodd, Helen Katherine	*Cambridge, Ill.*
Brody, Catherine Pauline	*Cashton*
Brown, Elizabeth Coit	*St. Louis, Mo.*
Bruning, Paul Jacob	*Brooklyn, N. Y.*
Buckley, Dorsey Albert	*Wisconsin Rapids*
Buehler, Donald Edward	*Baraboo*
Bues, Ida se	*Milwaukee*
Bulley, Kenneth George	*Marinette*
Bumps, Marjorie Evelyn wls	*Detroit, Mich.*
Burd, Louise Edith se	*Milwaukee*
Burke, Charles Francis m	*West De Pere*
Burns, Dorothy Estelle se	*Madison*
Burns, Estelle Marie se	*Almond*

Burt, Helen Maddox	*Chicago, Ill.*
Burton, Helen Brown	*Madison*
Busch, Lillian Eleanor	*Oshkosh*
Bussey, Venice Margarite se	*Edgerton*
Buttles, Jane	*Milwaukee*
Caldwell, Dorothy Rose se	*Milwaukee*
Caldwell, William Raymond	*Poynette*
Callen, Carl Arthur	*Bayfield*
Callen, Harry Gustaf	
Calvert, Edith Emerson se	*Benton*
Campbell, Margaret	*Tulsa, Okla.*
Campbell, Margaret Gailey se	*Chicago, Ill.*
Canuteson, Elsie Elizabeth	*Madison*
Canuteson, Richard Lewis	*Arcadia*
Capen, Cathryne Corrine	*Harrisburg, Ill.*
Carle, Josephine Parnell se	*Janesville*
Carter, Clinton Lyle l	*Castlewood, S. D.*
Case, Charlotte Sara	*Oshkosh*
Casper, William Jacob	*Chippewa Falls*
Casterline, Robert Dickinson	*Milwaukee*
Chambers, Howard Frederick se	*Fish Creek*
Chang, Anna Oen I se	*Kinkiang, China*
Chappel, Flora Estelle se	*Rockford, Ill.*
Chase, Hamilton	*Topeka, Kans.*
Check, Orphelia Wilhelmina	*Madison*
Chang, Kao Piao	*Foochow, China*
Chesky, George Herman m	*Milwaukee*
Chorlog, John Ingolf m	*Madison*
Chorlog, Margaret Kristine	*Madison*
Chrisler, Marie Elizabeth	*Beaver Dam*
Cizon, Maximilian Nathaniel	*Milwaukee*
Clapp, Claude Clarence	*Kansas City, Mo.*
Clapp, Frederick Horton	*Aurora, Ill.*
Clauson, Carl Theron	*Bloomer*
Clissold, Isadore Amelia	*Chicago, Ill.*
Cole, Llewellyn Rathbun se	*Clintonville*
Collins, John Carleton	*Madison*
Colvin, Lovey Mary	*Frankfort, Ky.*
Connell, John Henry	*Beloit*
Connell, Mary Catherine se	*Darlington*
Conner, Esther	*Wabash, Ind.*
Conway, Eleanor Antoinette se	*Milwaukee*
Conway, Mary Emily se	*Watertown*
Coon, Margaret Irene	*Madison*
Corl, Alice Elizabeth se	*Grand Rapids, Mich.*
Corneillier, Gladys Ruth se	*Chippewa Falls*
Courtney, Charles James	*Marquette, Mich.*
Craig, Harold John	*Stoughton*
Cremer, Anabel Beatrice	*Cashton*

Culbertson, James Gordon	*Stanley*
Danta, Rosabelle	*East Jordan, Mich.*
Darling, Frank Edward	*Milwaukee*
Davidson, Avery	*Oshkosh*
Davidson, Emily Katheryn se	*Hinsdale, Ill.*
Davis, George Keith	*Kansas City, Mo.*
De Nosaquo, Norman Victor m	*Milwaukee*
Devine, Mary Louise	*Madison*
Dewarzeger, Victor Theodore m	*Green Bay*
Dollard, Marguerite Mary	*Madison*
Donnelly, Louise Dolores se	*La Jolla, Cal.*
Donovan, Joseph Thomas	*Madison*
Douglas, Annabel Mae se	*Milwaukee*
Douglas, Morrill Elinore	*Hutsonville, Ill.*
DuBois, Durwood Carl	*Baraboo*
Dummer, Howard William	*Manitowoc*
Dunbar, Jean Partridge	*Elkhorn*
Duncan, Frances se	*Albia, Iowa*
Durham, Louise se	*Chicago, Ill.*
Duthie, Marguerite Isabel	*Janesville*
Eastman, Bertha Ruth	*South Bend, Ind.*
Eberhart, Dorothy Anne	*Chicago, Ill.*
Eigenmann, Thora Marie	*Bloomington, Ind.*
Eldredge, Mary Adalene	*Savannah, Ill.*
Elser, Mildred Beatrice se	*Beaver Dam*
Emanuel, Alvin James	*Fall Creek*
Emanuel, Karl William m	*Shawano*
Epstein, Ethel Ruth se	*Delavan*
Erickson, Inez Martha se	*Madison*
Erickson, Milton Hyland m	*Lowell*
Evans, Elwyn	*Dodgeville*
Evans, Evan Alfred	*Baraboo*
Everson, Norma Gertrude	*Hudson*
Eyre, Sarah Willson	*Madison*
Faletti, Anthony Joseph m	*Spring Valley, Ill.*
Farr, Emily Belle	*Eau Claire*
Farrington, Isabel	*Madison*
Feuchtwanger, Joseph, Jr.	*Chicago, Ill.*
Fictum, Adolph	*Stangelville*
Fifield, Esther Georgiana se	*Janesville*
Fisher, Marion May se	*Webster Groves, Mo.*
Flarsheim, Robert Henry	*Kansas City, Mo.*
Fletcher, Sara Greenwood	*Wellesley Hills, Mass.*
Flugstad, Wilson Dale	*Black River Falls*
Folsom, Hugh Francis	*Fond du Lac*
Foote, Audrey Ida se	*Milwaukee*
Forster, Frances Eleanor se	*Albia, Iowa*
Fortnum, Ferne Frances	*Ripon*
Foster, Florence Geraldine se	*Peoria, Ill.*
Foucek, Bohumil m	*Berwyn, Ill.*

Fowler, Beatrice	*Chicago, Ill.*
Fox, Anna Katharine	*Madison*
Fox, Carita Mary se	*Shullsburg*
Fradenburgh, Grace Ardene se	*Milwaukee*
Frank, Rosalyn Mildred	*Sparta*
Franseen, Clifford Carlton	*Frederic*
Freitag, Samuel August	*New Glarus*
French, Rispah	*Palmyra*
Friday, Esther Arlette	*Oshkosh*
Fries, Gertrude Louise	*Bowling Green, Ohio*
Fries, Horace Snyder	*Richland Center*
Fuller, Blanche Helen	*Madison*
Gannon, Gladys Marie se	*Madison*
Gardner, Kenneth Stuart, Jr.	*Kansas City, Mo.*
Gaston, Elizabeth	*Madison*
Gault, Philip Clinton	*Topeka, Kans.*
Geiger, Josephine	*Milwaukee*
Geil, Matilda Edna	*Milwaukee*
Georgi, Esther Dorothy se	*Oswego, Ill.*
Gerritts, Norbert Frederick	*Little Chute*
Gilbert, Harland Frederick	*Aberdeen, S. D.*
Giles, George Cranston	*La Grange, Ill.*
Gilling, Rosalyn Julia	*Green Bay*
Gilson, Edwin Russell	*Hammond, Ind.*
Gingerich, Eura Marie se	*Cissna Park, Ill.*
Gittings, Elinor Mae se	*Union Grove*
Godfrey, Harriet Seymour	*Wauwatosa*
Godfrey, Marjorie Elizabeth se	*Waupaca*
Goedecke, Raymond	*Merrimac*
Goelzer, Esther Emma se	*Milwaukee*
Gold, Rhoda Ellen	*Red Wood Falls, Minn.*
Goldman, Melvin S.	*Milwaukee*
Goodfellow, Emma Evelyn se	*Superior*
Gould, Ethel J. se	*Coloma*
Grab, John Amandus m	*Manawa*
Gratiot, Eugenia	*Dubuque, Iowa*
Griggs, Charles Irwin	*Kansas City, Mo.*
Groom, Edith May	*Warren, Ill.*
Grotophorst, Minna	*Plain*
Guenther, Valentine Carl	*Sheboygan*
Guild, Elliott William	*Des Moines, Iowa*
Gumm, Meta Mildred se	*Madison*
Gustorf, Fred Arthur	*Madison*
Haake, Alma Agnes se	*Madison*
Hager, John Allen	*Reedsburg*
Hahn, Anita Clara	*Detroit, Mich.*
Halverson, George Maynard	*Madison*
Hammer, Rolf Bernhardt	*Galesville*
Hammerly, Fred Fridolin se	*Monticello*
Hammond, Lois Emma	*Antigo*

Hanisch, Hazel Melita se	*Waupun*
Hanley, Mildred Bernice se	*Mt. Horeb*
Hanna, Charlotte Hastings	*Geneva, Ill.*
Hanna, Marion Louise se	*Ottawa, Ill.*
Hansen, Mildred Elizabeth	*Evansville*
Hanson, Gertie Lulie se	*Richland Center*
Hanson, Lloyd Truman	*Deerfield*
Hanson, Mildred Alva Theresa	*Rio*
Hardaker, Ruth Marie	*Mukwonago*
Harmon, Leo Bob	*Mitchell, S. D.*
Harris, Edith Aurelius	*Chicago, Ill.*
Harrison, Elizabeth Harriet se	*Sparta*
Hart, Evelyn Genevieve se	*Milwaukee*
Hartzell, Lucie Eloise	*Los Angeles, Cal.*
Haskins, Dorothy Harriet se	*Madison*
Hasse, Ralph Edwin se	*Wauwatosa*
Hayden, Frances Johan	*Milwaukee*
Haberlein, Edna Marguerite	*Portage*
Heffernen, Martha Mary se	*Green Bay*
Heideman, Vera Genevieve	*Maywood, Ill.*
Heim, Marie Teresa	*Madison*
Heineman, Ellis Richard se	*Madison*
Hemingway, James Rene	*Chicago, Ill.*
Hendershot, Mary Alice	*Platteville*
Hendrickson, Herman Stuart m	*Black River Falls*
Henke, Samuel Lowell	*Baraboo*
Herman, Helen Katherine se	*Sheboygan*
Hickey, Cyrilla Marian	*Milwaukee*
Hickey, Lorraine Mary se	*Reedsburg*
Hiestand, William Andrew	*Madison*
Higgins, Anna Marguerite se	*Milwaukee*
Higgitt, Violet Lorraine	*Milwaukee*
Hillberry, Ardath se	*Blue River*
Hilton, Robert Kornitzer	*Soccorro, N. Mex.*
Hinn, Carl Paul	*Fennimore*
Hobart, Margaret Caroline	*Momence, Ill.*
Hobbins, William Suhr	*Madison*
Hocking, George Drew	*Madison*
Hocking, Pearl Elizabeth se	*Huron, S. D.*
Hofstaedter, Helen Emily se	*Madison*
Hollister, John James	*Chicago, Ill.*
Holmes, Willard Farnsworth	*Chicago, Ill.*
Holt, Leda Louise se	*Waukesha*
Honeycomb, Kliment Leroy	*Madison*
Hopkins, Mary Louise se	*Morrisonville*
Houser, Jeanette se	*Milwaukee*
Hsieh, Fen Cheng	*Canton, China*
Hume, Loren Alexander	*Green Bay*
Hunt, Emilie Harriet	*Madison*

Hunt, Virginia Katherine se	*Milwaukee*
Hurlbut, Mary Bingham	*Omro*
Hyer, Hazel Helen	*Jefferson*
Iverson, Anna Mae se	*Tomahawk*
Jackman, Willmarth Livingston	*Madison*
Jackson, Harriet Josephine	*Madison*
Jackson, Julia Morris	*Madison*
Jacobson, Edna Louise	*Madison*
Jamba, Ann	*Madison*
James, Adeline Wilder	*Richland Center*
Jamieson, Lucy	*Poynette*
Jarvis, Arnold Goodman	*Eau Claire*
Jax, Clarence Gerald	*Johnson Creek*
Jeuck, Nellie Margaret se	*Mineral Point*
John, Dorothy Augusta	*Milwaukee*
Johns, Catherine Breese se	*Antigo*
Johnson, Arzalia Slyoff	*Burlington, N. J.*
Johnson Elizabeth se	*Menominee*
Johnson, Lucille Margaret	*Lemont, Ill.*
Johnson, Mildred Elizabeth	*Maywood, Ill.*
Johnson, Roswell Browand l	*Gary, Ind.*
Jones, Ethel Loretta	*Waupun*
Jones, Margaret Baker	*Houston, Tex.*
Jones, Maude Irene	*Peoria, Ill.*
Jones, Orville Leslie	*Wallace, Idaho*
Jones, Sarah Bertha se	*Birchwood*
Jordan, Jeannette Catherine se	*Freeport, Ill.*
Kaiser, Hazel Elizabeth	*Evanston, Ill.*
Kammer, Adolph Gottlieb	*New Glarus*
Kanneberg, Louise A	*Madison*
Keck, Everett Blaine m	*Madison*
Keller, Martha Margaret	*Madison*
Keller, Oswald, Lewin	*Madison*
Kempton, Elizabeth	*Madison*
Kempton, Willett Main	*Madison*
Kennedy, Arloene M.	*Sioux City, Iowa*
Kerr, Stella Mildred	*Mazomanie*
Kimball, Dorothy Minnie	*Briggsville*
Kindschi, Rosanna Lenore	*Madison*
King, Dorothy Alice se	*Wilmette, Ill.*
Kissel, Lester Louis	*Hartford*
Kittleson, Gertrude Inez	*Madison*
Kler, Joseph Henry	*Black River Falls*
Knapp, Frances Eva	*Bellevue, Ohio*
Knauf, Margaret Elizabeth	*Kiel*
Knowles, Fred Hersey	*Chicago, Ill.*
Knudson, Joel William m	*Galesville*
Kohler, John Michael	*Kohler*
Kopmeier, Lucille Caroline	*Milwaukee*

Krafft, Lee Menta	*Oak Park, Ill.*
Krause, Almyra Henrietta se	*Milwaukee*
Krohn, Loretta Margaret se	*Oconomowoc*
Krohn, Mildred Amelia se	*Oconomowoc*
Krom, Isadore George	*Withee*
Krostu, Gladys Evangeline se	*Cambridge*
Krueger, Herbert Ferdinand	*Stevens Point*
Kuhn, Harry Albert m	*Madison*
Kulp, Pearl Eva se	*Titonka, Iowa*
Kurtz, Wilma Evelyn se	*Muscoda*
Landa, Julio Felix m	*Lima, Peru, S. A.*
Langemo, Marcia Adrienne se	*Stoughton*
Lappley, Vera Laura se	*Madison*
Lauter, Minna Margaret	*Indianapolis, Ind.*
Leberman, Fulton Herman	*Sheboygan*
Lehrbas, Lucille Emma	*Wausau*
Leitz, Marian Lucile	*Ripon*
Le May, Emma Virginia se	*Cobbam*
Levitin, Simon Samuel l	*Madison*
Lewis, Helen se	*S. Milwaukee*
Li, Ti Tsun	*Hwangmei, Hupeh, China*
Linehan, Rozella Ruth se	*Tomah*
Lipman, William Harrison m	*Antigo*
Long, Chester William m	*Stanley*
Long, Julia Margaret	*Oshkosh*
Longcor, Mina Myrland	*Madison*
Longenecker, Lois Joy se	*Neillsville*
Look, Arthur Clarence	*Kaukauna*
Loverud, Harold Irving Leroy	*Stoughton*
Lowe, Helen Prudence se	*Madison*
Lowe, Winifred Mary	*Algonquin, Ill.*
Lowry, Agnes Scobie se	*Sacramento, Cal.*
Ludden, Leila Gladys se	*Bloomington*
Lundt, Milo Oliver	*Madison*
Lyons, Helen Audrey se	*Madison*
McCaffery, Agatha Grace	*Madison*
McCloskey, Roy James	*Prairie du Chien*
McConkey, Fay Bernice se	*Madison*
McCormick, Alice Emeline	*Saginaw, Mich.*
McCoy, Stuart Bowker	*Sparta*
McDonald, Mabel Helen se	*Madison*
McGibbon, Leona Mae se	*Superior*
McGinnis, Paul Sherman	*Kansas City, Mo*
McGrath, Marie Celia	*Darlington*
McGreane, Eunice Kathryn se	*Darlington*
McGreane, Frank Xavier m	*Shullsburg*
McIntosh, Margaret Mary	*Viroqua*
McIntosh, Ruth Mary	*Edgerton*
McKinnon, Helen se	*Superior*
MacLachlan, Margery Jean	*Macfarland*

McMasters, Donald Rice	*Nashwank, Minn.*
McMillan, Agnes Elizabeth se	*Milwaukee*
McMurry, Neil Burns	*Madison*
MacQueary, Janet Garland	*St. Louis, Mo.*
Maas, William George	*Negaunee, Mich.*
Mackemer, Eva Virginia	*Peoria, Ill.*
Mael, John Olaus	*Mt. Horeb*
Mahoney, Julia Dorothy	*Cudahy*
Mai, Chien Tseng	*Peking, China*
Mallory, Louis Arthur	*Milwaukee*
Malott, Grace P.	*Detroit, Mich.*
Manierre, John Foster	*Chicago, Ill.*
Mantell, Jacob Francis	*Racine*
Manz, Walton Robert	*Eau Claire*
Mark, Bernice Myndell se	*Kenosha*
Marshall, Dorothy Irene	*Beloit*
Marshall, Joseph Daniel	*Jacksonville, Fla.*
Martin, Gretchen Eilene se	*Stevens Point*
Martin, Theodore John	*Madison*
Mason, Elizabeth Anne	*Madison*
Mason, Frank Newton m	*Milwaukee*
Mayer, Carl Gottfried	*Chicago, Ill.*
Medley, Luther George	*Fox Lake*
Melcher, Melvin, William	*Horicon*
Menke, Albert William	*Madison*
Merrill, Ruth Putnam	*Swampscott, Mass.*
Metz, Frances Rosina se	*Madison*
Meyer, Margaret Dorothy	*Wauwatosa*
Meyer, Marshall Friedrich	*Platteville*
Millar, Malcolm Gray	*Madison*
Millard, Allen La Mont m	*New London*
Miller, Carl Joseph	*Fennimore*
Miller, Florence Theresa	*Ellsworth*
Miller, Franklyn Howard	*Sparta*
Miller, Ruth Agnes se	*Milwaukee*
Milne, Dorothy Geraldine	*Wausau*
Miner, Aileen Considine	*Madison*
Miner, Dorothy	*Falk City, Neb.*
Misselhorn, Doris Irene	*Madison*
Mitchell, Alice Catherine	*Fargo, N. D.*
Mitchell, George Wilder	*Madison*
Mitchell, Margaret Bluette	*Superior*
Moore, Mildred Merle	*Frankport, Ind.*
Morley, Walter Kelley, Jr.	*Madison*
Moroney, Thomas Ward	*Valparaiso, Ind.*
Morris, Isabel Martha se	*Janesville*
Morrison, Bernice LaVerne	*Grundy Center, Iowa*
Morrison, William John	*Columbus*
Morrow, Cecil Alfred	*Kenosha*
Morrow, Grace Caroline	*Hinsdale, Ill.*

Moses, Margaret Elizabeth se	*Eau Claire*
Munkwitz, George Albert	*Milwaukee*
Munn, Kathleen Miriam se	*Superior*
Munz, Margaret Norene	*Oneida, N. Y.*
Murphy, John Falk	*Madison*
Nammacher, Traugott Herman	*Oconomowoc*
Nehls, Una May se	*Muscoda*
Nelson, Charles Nels	*Detroit Harbor*
Nelson, Dorothy Elizabeth	*Gillette*
Nelson, Elizabeth Olivia	*Red Wing, Minn.*
Nelson, Katherine McCormick	*Ashland*
Nelson, Mary Harrington se	*Dubuque, Iowa*
Neuling, Wilma Elizabeth	*Unity*
Nichols, Grace Laura se	*Madison*
Nichols, Robye Mae	*Waco, Tex.*
Nicholaus, Alfred Herbert l	*Ft. Atkinson*
Nissen, Marie Elizabeth	*Newton, Kans.*
Nolte, Clifford Simpson	*Wauwatosa*
Norgord, Gladys Molley se	*Albany, N. Y.*
Norris, Clarkson	*La Moille, Ill.*
Northup, Esther Grinnell	*Marshalltown, Iowa*
O'Brien, Harold Aloys	*Madison*
Oestreich, Dorothea Amanda	*Janesville*
Ohlson, Michael Peter	*Milwaukee*
O'Laughlin, Rosemary se	*Randolph*
Olsen, Arleen Kathryn se	*Green Bay*
Olson, Newell Ernest	*Stanley*
O'Malley, Mary Ailene	*Waunakee*
O Neill, Catherine Elizabeth	*Madison*
Orcutt, Dora Jeanette se	*Sioux City, Iowa*
Oscar, Helen Grace se	*Madison*
Otten, Paula se	*Kenilworth, Ill.*
Palmer, Florence se	*Madison*
Palmer, Lois Evelyn	*Wauwatosa*
Paris, Grace Ward se	*Prairie du Chien*
Parker, Katherine Blunt se	*Beaumont, Tex.*
Pasley, Joyce Rita	*Madison*
Peck, Hollis Charles	*Elkhorn*
Pedersmoen, Helene Katherine	*Madison*
Pedigo, John Paul	*Tampa, Fla.*
Perrin, Stuart Henry	*Star Prairie*
Pescor, Michael James	*Oak Creek, Col.*
Peters, Georgia Gertrude se	*Sioux Falls, S. D.*
Peterson, May Marguerite	*Sterling, Ill.*
Peterson, Pauline Caroline	*Milwaukee*
Phillips, Gladys Emeline	*Freeport, Ill.*
Pierce, Ella Kathryn se	*Dallas, Tex.*
Pinkerton, Lyall John	*Neenah*
Porter, Colby Arthur	*Fox Lake*
Porter, Hawley Vinton l	*Miles City, Mont.*

Porter, Mark Carl	*Fox Lake*
Porter, Robert Taylor	*Chicago, Ill.*
Portman, Raymond Joseph m	*Ladysmith*
Poser, Frederic Falk	*Columbus*
Power, Ferne Ethel se	*Madison*
Price, Margaret	*Mt. Morris, Ill.*
Puff, Bertha Katherine	*Newport, Ky.*
Purcell, Margaret Rosemary se	*Madison*
Quilty, Francis Cyril l	*Madison*
Ralph, Leland Paul m	*Cuba City*
Ramsay, Jane Howarth	*Pittsburg, Pa.*
Rappoport, Ida se	*New York, N. Y*
Rasmussen, Carrie se	*Aurora, Ill.*
Rathert, Burton Stewart m	*Chilton*
Reay, George Daniel m	*La Crosse*
Rekstad, Julius Edward m	*Eau Claire*
Rench, Eleanor Bernarda	*St. Louis, Mo.*
Repert, Florence Bernice se	*Madison*
Richards, Raymond Randolph m	*Chetek*
Richmond, Philip Hamlin	*Olis, Mass.*
Rickett, Helen Margaret	*Washington, D. C.*
Ridings, Ethel Marion	*Berkeley, Cal.*
Ridings, Mary Cook	*Berkeley, Cal.*
Ring, Ethel Bicknell se	*Madison*
Ritzmann, Elizabeth Laura se	*Oak Park, Ill.*
Roberts, John Colin	*West Bend*
Rogers, Alice Lura	*Viroqua*
Rood, Clara Catherine	*Madison*
Rosenbaum, Mose Kahn	*Milwaukee*
Rowe, Richard Lawrence m	*Hibbing, Minn.*
Rowlands, Edwin Myewyn	*Cambria*
Runkel, Myra Catherine se	*Port Washington*
Rydell, Ellwood Otto m	*Superior*
St. John, Catherine Amy	*Green Bay*
Salentine, Lucille Suzanne se	*Milwaukee*
Salsbury, Robert Chappell	*Cazenovia, N. Y.*
Sammons, Elizabeth Julien	*Sioux City, Iowa*
Sanderson, Murray (Miss)	*Rochester, Minn.*
Sandsten, Emilie Dew	*Ft. Collins, Colo.*
Sanford, James Richard	*Farmington, Minn.*
Saunderson, George Clare	*Omro*
Sawers, Arthur Ritchie	*Chicago, Ill.*
Schacht, Milton Walter	*Racine*
Schaekel, George Bernhard	*Butternut*
Schils, Julius Raymond	*Sheboygan*
Schlotthauer, George McDormit	*Madison*
Schmege, Oscar John l	*Appleton*
Schmidt, Alfred Edward	*Columbus*
Schmidt, Anita Louise se	*Saginaw, Mich.*
Schmidt, Herman Arthur l	*Columbus*

Schmidt, Lydia Hulda	*Milwaukee*
Schmitz, Gilbert J. B.	*Madison*
Schmitz, Inger Minette se	*Milwaukee*
Schneller, Eldon Merrill	*Arcadia*
Schoechert, Adolph Emil	*Whitewater*
Schoenlaub, Mildred Flag se	*Madison*
Schoonover, Ruth Catherine	*Eau Claire*
Schrenk, Helmuth Herman	*Galconda, Ill.*
Schroeder, Irma Marie	*Normal, Ill.*
Scott, Veryl Erwin	*Madison*
Scoular, Elizabeth Margaret se	*Mellen*
Scoular, Janet Isabel se	*Mellen*
Sears, Elizabeth Hyde	*St. Louis, Mo.*
Seelman, Ralph George	*Milwaukee*
Semelroth, Martha Reynolds	*Westfield*
Senn, Milton J. E. m	*Madison*
Sexauer, Mildred Katherine se	*La Crosse*
Seymour, Walter James	*Tsining, Shantung, China*
Sharp, Eliot Hall	*Madison*
Sharratt, Violet Henriette	*Madison*
Shea, Martha Jane	*Green Bay*
Shepard, Vida Marie	*Milwaukee*
Sherman, Wells Alvord, Jr. se	*Vienna, Va.*
Shoemaker, Jeanne Damon	*Eau Claire*
Shonesy, Shirley K.	*Hillsboro*
Short, Victor Bernard	*Chicago, Ill.*
Siepert, Clara Katherine	*Chippewa Falls*
Silverwood, George P.	*Green Bay*
Simmons, Elizabeth Carman	*Wilmette, Ill.*
Sisserman, Bella Donna	*Milwaukee*
Sister Mary Alicia Giles	*Madison*
Skolas, Marcus m	*Madison*
Skroch, Roman Sylvester	*Big Rapids, Mich.*
Slaughter, Blanchard King	*Madison*
Smiley, Bernice L. se	*Janesville*
Smith, Beatrice Elizabeth se	*Weyauwega*
Smith, Edna Margaret	*Two Rivers*
Smith, Henry Charles, Jr.	*Miles City, Mont.*
Smith, Herbert Howard	*Iron River*
Smith, Janet Elizabeth	*Appleton*
Smith, Morris Jerome	*Rush Lake*
Smith, Percy William	*Danville, Ill.*
Snell, Hampton Kent	*Kansas City, Mo.*
Snyder, Katharine Uhl	*Somerset, Pa.*
Soucie, Ethel Mary	*Lynxville*
Spilman, Lydia Augusta Martha se	*Edgerton*
Sporer, Harold Joseph l	*Manitowoc*
Staab, Alma Mary se	*Wall Lake, Iowa*
Stangel, Milton Francis	*Manitowoc*

Stebbins, George Griswold	*Madison*
Steen, Reginald Reed m	*West Bloomfield, N. Y.*
Steensland, Capitola Agatha	*Blanchardville*
Steig, Maynard Herman	*Whitehall*
Stenjem, Inez Wilhelmina se	*Madison*
Sterling, Goldene Angeline se	*Stanley*
Sterling, Russell Rhea m	*Stanley*
Stevenson, Sarah	*Des Moines, Iowa*
Stilwill, M. Ruth	*Sioux City, Iowa*
Stipek, Raymond Joseph	*Glendive, Mont.*
Stitgen, Elizabeth Helen	*Madison*
Stolte, Elizabeth G. se	*Reedsburg*
Stolte, Will Arthur	*Reedsburg*
Stone, Genevieve Cornelia	*Peoria, Ill.*
Stoops, Dorothy Abigail	*Napanee, Ind.*
Strader, Ula Kathryn	*Monroe*
Strassburger, Walter Karl	*Sheboygan*
Strela, Vaclav	*Rakoonick, Czecho-Slovakia*
Strickler, Clinton Buell	*Chicago, Ill.*
Strodel, Clara Elizabeth se	*Huntington, Ind.*
Sullivan, George Francis	*Fond du Lac*
Sullivan, Willis Gregory	*Hurley*
Sun, Cheng Yu	*Tien Tsin, China*
Sutton, James Wynne	*Peoria, Ill.*
Swensen, Dorothy Katherine	*Madison*
Talley, Robert Bernard	*Terre Haute, Ind.*
Tarlton, Jean Marjorie	*St. Louis, Mo.*
Taub, David Livingston	*Pueblo, Col.*
Taylor, Helen Alice	*Pierre, S. D.*
Tegge, Mildred Margaret	*Papineau, Ill.*
Teschan, Rudolf Arnold, Jr. m	*Milwaukee*
Thompson, Irene Edith	*Danville, Ind.*
Thompson, John	*Madison*
Thompson, Madeline Elizabeth se	*Madison*
Timm, Arthur Edward	*Milwaukee*
Tomlinson, Theodore Hubert se	*Eau Claire*
Traeger, Edith	*Plymouth*
Tressler, Willis Latanner m	*Madison*
Truesdall, Jane	*Toledo, Ohio*
Trumbo, Strawn	*Ottawa, Ill.*
Tucker, Lillian Irene	*Madison*
Turgrimson, Carolyn Florence	*Chicago, Ill.*
Turney, Clayton Ellsworth	*Fairfield, Iowa*
Tyner, Ruth	*Wabash, Ind.*
Uehling, Edwin Albrect	*Lowell*
Uglow, Elva Nora	*Whitewater*
Urschel, Helen Elizabeth	*Bowling Green, Ohio*
Van Tassel, Valentine se	*E. Cleveland, Ohio*
Varney, Francis Carleton	*Wilmette, Ill.*
Vradenburg, Vera Josephine se	*Madison*

Wadleigh, Beatrice Bernice se	*Milwaukee*
Wainright, Richard Charles	*Indianapolis, Ind.*
Wallace, Helen	*Oak Park, Ill.*
Walz, Ima Vera	*La Crosse*
Wang, Shih Fu	*Shanghai, China*
Wang, Shu Ling	*Che Kiang, China*
Wagenstein, Victor Carl	*Duluth, Minn.*
Waterman, Irl Lloyd	*Suring*
Webb, Louise se	*Gilbert, Minn.*
Weeks, Archie Schneider	*Chilton*
Wegner, Lydia	*Two Rivers*
Weingandt, Hazel Dorothy se	*Milwaukee*
Wells, Dorothea Elizabeth se	*Wausau*
Wells, Elizabeth Pomeroy	*Chicago, Ill.*
Wells, Marion Elinore se	*Portage*
Werden, Dorothea	*Ashland*
Westover, Drusilla Stewart	*Oconomowoc*
Wheelihan, Robert York m	*Duluth, Minn.*
White, Alice Delories se	*Dubuque, Iowa*
White, Doris Elaine	*Eau Claire*
White, Laura Eunice	*Washington, D. C.*
Whitehead, Blanche Berniece	*Harvard, Ill.*
Whitehead, Irene Julian se	*Menomonee Falls*
Wieslander, Lillian	*Ashland*
Wigonitz, Anne Harriet se	*Madison*
Wilke, Harriet Elizabeth	*Eau Claire*
Willey, Howard Ellsworth m	*Lake Mills*
Williams, Joseph Edward	*Sioux City, Iowa*
Williams, Leonard Rowland	*Cambria*
Willson, Gordon Lee se	*Leal, N. D.*
Wimmer, Edward Joseph	*Milwaukee*
Winchell, Alexander Vaughn	*Madison*
Winnie, Helen Salome se	*Baraboo*
Winston, Thomas Mumford m	*Highland Park, Ill.*
Winterbotham, Isabelle	*Madison*
Wirig, Marres Harold m	*Antigo*
Wittwer, Leatha Selina se	*Monticello*
Wolf, Erna Rose	*Milwaukee*
Wollaeger, Harriet Paula	*Milwaukee*
Wolverton, Marion Ruth se	*Oshkosh*
Woodruff, Frances Virginia	*Camden, N. J.*
Wu, Chih Lung	*Shanghai, China*
Wuerpel, Margaret	*Clayton, Mo.*
York, Irving Washington	*Portage*
Young, Mary Braham	*Memphis, Tenn.*
Zaun, John Joseph m	*Milwaukee*
Zebro, William R.	*Weyerhauser*
Zeimet, Agnes Lillian	*Madison*
Zilley, Marion Lucile	*Beloit*

Zimmermann, Felix Herman m	*Watertown*
Zodtner, Harlan Henry se	*Portage*

Course in Commerce

Aberg, Donlan Vincent	*Shell Lake*
Alinder, Henry Jr.	*Milwaukee*
An, Shao-Yun	*Tien Ksin, China*
Anderson, Ben Otto	*Ashland*
Andrews, Almon John	*Shawano*
Auchter, Frieda Kathryn	*Madison*
Baker, Kenneth	*Madison*
Bier, Wallace Jacob	*Mt. Horeb*
Bridgman, John Faucett	*Stanley*
Bright, Melville Oliver	*Stevens Point*
Brooks, Warren Charles	*Shawano*
Bryson, Robert Harold, Jr.	*Indianapolis, Ind.*
Burmester, LaVerne Egbert	*Middleton*
Caldwell, Harold Ferguson	*Morrisonville*
Caldwell, Stanley Robert	*Lodi*
Carr, Helen Bennett	*Lancaster*
Carter, Margaret Matchett	*Denver, Col.*
Chamberlain, James Henry	*Wisconsin Rapids*
Christoph, Floyd Howard	*Waukesha*
Cohen, Maurice H.	*Milwaukee*
Dallas, Helen Virginia	*New York, N. Y.*
Daoust, Clarence Daniel	*Saxon*
Darrow, William Henry	*Superior*
Davenport, John Rushmore	*Baraboo*
De Moss, Lloyd B.	*Wausau*
Dewey, Harlow Jay	*Lake Mills*
Diefendorf, Alice Frances se	*Madison*
Eide, Roy	*Eau Claire*
Ellingson, Eldred Junius	*Milan*
Engler, Carl John	*Fountain City*
Esser, Edward Charles	*Madison*
Freck, Karl Arthur	*Fall River*
Gebhardt, Karl Fredrich	*Madison*
Geiger, Isabelle Frances	*Monroe*
Giessel, Elmer Charles	*Oregon*
Gilbreath, John Schaff	*Detroit, Mich.*
Goelzer, Oscar James	*Milwaukee*
Greene, Charles Porter	*Elkhorn*
Griffin, Charles Jewett	*Chippewa Falls*
Grimm, Francis William	*Madison*
Gross, Harold David	*Necedah*
Groth, Cornelia Christine	*Watertown*
Grunitz, Eric Otto	*Milwaukee*
Halbe, Selma Ruth	*Ashland*

Hanson, Lawrence Willard	*Waukesha*
Hass, Firman Henry	*New Holstein*
Hatch, Hobart Hannibal	*Spring Green*
Hefty, Wilbert Jacob	*New Glarus*
Heller, Louis Victor	*Milwaukee*
Herreid, Leon Gerald	*Blair*
Hoffman, Gilbert Bernhardt	*Madison*
Hogseth, Leonard O.	*Chippewa Falls*
Houghton, Vernon Francis	*Manitowoc*
Hubbard, Ralph Clarence	*Watertown, S. D.*
Hunsader, Alban J.	*Algoma*
Jones, Frederic Edwin	*Bismarck, N. D.*
Kadow, Stanley Wenzel	*Manitowoc*
Kehoe, Christie James	*N. Fond du Lac*
Kessenich, Herman Frank	*Madison*
Kihn, Gwendolyn Marjorie	*Park Falls*
Kitchin, Ross Greenfield	*Grand Rapids, Mich.*
Kneer, Carsten Frederic	*Eau Claire*
Koch, Arthur Louis	*Brillion*
Kress, George Frederick	*Green Bay*
Lauson, Wilfred Jack	*New Holstein*
Lentzner, Lloyd William	*Menomonee Falls*
Lucia, Loy Joseph	*Bear Creek*
Mac Arthur, Donald	*Antigo*
McCarty, Harold James	*Brownsville*
Malzahn, Lester Frederick	*Milwaukee*
Marcus, Bessie Edith se	*Milwaukee*
Marowally, Louis James	*Chippewa Falls*
Mears, Leroy William	*Pepin*
Meyers, Earl William	*Lake Mills*
Michler, Arthur William	*Fond du Lac*
Mueller, Lloyd Reed	*Milwaukee*
Moynihan, Athol John	*River Falls*
Muth, Clarence Jacob	*Milwaukee*
Muzzy, La Vern William	*Madison*
Nyhagen, Robert Wallis	*Manitowoc*
O'Malley, Charles Rodney	*Waunakee*
Peterson, Robert Lawrence	*Waupaca*
Porter, Richard Thurston	*Merrillan*
Posepny, Peter Matthew	*Two Rivers*
Pschorr, Edmund Joseph	*Madison*
Pusch, Raymond John	*Hartford*
Radke, Frederick William	*Owen*
Ragatz, Wilmer LeRoy	*Madison*
Reese, William Joshua	*Madison*
Rentschler, George Frederick	*Madison*
Ristow, Lorenz Henry	*La Crosse*
Rose, Lula B.	*Prentice*
Ross, Lester Ward	*Madison*

Rueth, Peter Alfons	*Sun Prairie*
Schaefer, Susie Genevieve	*Baraboo*
Schatz, Harold Alfred	*Waukesha*
Schlosstein, Belmont Harry	*Cochrane*
Seeber, Fred Daniel	*Houghton, Mich.*
Solinger, Sydney Bernard	*Appleton*
Sorensen, Edwin James	*Milwaukee*
Spoon, Kenneth Solomon	*Janesville*
Sprester, Henry John	*Black River Falls*
Stair, Henry Bowen	*Brodhead*
Stannard, Frederick	*Eau Claire*
Sullivan, Charlotte Jean	*Marshfield*
Tan, Kuang-Te	*Canton, China*
Tofte, Arthur Reginald	*Milwaukee*
Toll, Alfred Otto	*Waupun*
Tollack, Layton Eugene	*Black River Falls*
Trainor, Thomas Edward	*West Chicago, Ill.*
Tsai, Cheng Hsiu	*Soochow, Kiangsu, China*
Vaile, Victor Edward	*Kokomo, Ind.*
Vallely, Lloyd Michael	*Ashland*
Vornholt, Theodore C.	*Madison*
Wallen, Silas Francke	*Taylor*
Wheeler, Earl Eugene	*Sibley, Iowa*
Wichern, Harold John	*Evansville*
Wilbert, Leonard John	*Ingram*
Williamson, Warren Pyatt, Jr.	*Youngstown, Ohio*
Wilson, George Alvin se	*Warren, Ill.*

Course in Journalism

Baird, Florence Elizabeth	*Fort Wayne, Neb.*
Baldauf, Helen Joyce	*Milwaukee*
Barry, Lois Virginia	*Milwaukee*
Barsantee, Harry Pratt	*Madison*
Bayer, Gladys Marie	*Kenosha*
Bell, Donald Leswing	*Milwaukee*
Bendeke, Elsa Elizabeth	*Grand Forks, N. D.*
Boehringer, Elmer Louis	*Fremont, Ohio*
Bruns, Alice Jessie	*Madison*
Burr, Barbara Alice	*Springfield, Ill.*
Bush, Chilton Rowlette	*Pleasureville, Ky.*
Butler, Kenneth Blaine	*Kalamazoo, Mich.*
Carleton, Gilbert Davis	*Oak Park, Ill.*
Conlee, Courtland Reed	*Madison*
Cummings, Alice Elizabeth se	*Milwaukee*
Dalrymple, Martha Dorothy	*Chicago, Ill.*
Davis, John Earl se	*Rockford, Ill.*
Dunlap, Wes Wilson	*Salt Lake City, Utah*
Faville, Harry Wheaton	*Lake Mills*

Fowler, Esther Lyda se	*Chicago, Ill.*
Fulton, Ellis Giles	*Toledo, Ohio*
Gallagher, Kathryn Anne	*Oconto Falls*
Gibler, Virginia Gabriella	*Huntington, Ind.*
Griffin, Harold Michael	*Madison*
Hansen, Carl Robert	*Chicago, Ill.*
Hedler, Dorothy May	*Minneapolis, Minn.*
Hill, Margaret Mary	*Cedar Rapids, Iowa*
Hussong, Mary Elizabeth	*Madison*
Jones, Donald Hugh	*Sioux Falls, S. D.*
Killilea, Florence Louise	*Milwaukee*
Marquardt, Richard William	*Manitowoc*
Milligan, Elisabeth Lewis	*Delavan*
Morrissey, Donald Rothman	*Chilton*
Mrvicka, Lewis Stephen	*Racine*
Norman, Lina Irene Elvira	*Wauwatosa*
Pack, Leon Le Grande	*Madison*
Parker, Josiah Atkins	*St. Louis, Mo.*
Pepper, Adline Elizabeth	*Madison*
Robinson, Chilton Kent	*Maryville, Mo.*
Rorison, William Alva, Jr.	*Davenport, Iowa*
Shattuck, Kathryn Louise se	*Coldwater, Mich.*
Smith, Gordon Edward	*Madison*
Smith, Mary Anne	*Monroe, La.*
Spencer, Benita Lewis	*Ontario, Cal.*
Trautman, Cora T.	*Sheboygan*
Walter, Edna Enid	*Madison*
Weimer, John Francis	*Milwaukee*
Williams, Carmen Jean	*Allerton, Iowa*
Zimmerman, Dorothy	*Indiana Harbor, Ind.*

Course in Humanities

Burdick, Doris Lucile	*Sheboygan*
Cunniff, Hilda Spink	*Lisbon, N. H.*
Hocking, Elton Capper	*Rockford, Ill.*
Sellery, Beatrice	*Madison*

Normal Course

Anderson, Margaret, Maria se	*Tampa, Fla.*
Belgum, Bernard N. se	*Manitowoc*
Bursack, Bessie	*Westfield*
Canfield, Alice Eliza	*Benton Harbor, Mich.*
Carmody, Marion Gwendolyn se	*Mt. Hope*
Colby, Amy Sophia	*Greenwood*
Doering, Effie Alene	*Darlington*
Donyes, Jesse Nelson	*Long Beach, Cal.*
Dupee, Clarence William se	*Tomah*
Ehrlich, Rose se	*La Crosse*

Friar, Helen Marie	*Milwaukee*
Fristad, Nordahl Sigvald se	*Humbird*
Gaffney, Helen Margaret se	*Milwaukee*
Gould, Honora Elizabeth se	*Hanover, N. H.*
Gullord, Elizabeth Rosina	*Madison*
Hawkins, Lucille Catherine	*Hammond*
Haydon, Harriet Theresa	*Madison*
Hendershot, Ruby Pearl	*Platteville*
Jacobson, Herman Leslie	*Mt. Horeb*
Johnson May A.	*Iron River*
Kaiser, Norton Ralph se	*Adell*
Kelley, Anna Catherine se	*Woodman*
Kissinger, Florence Meta	*Athens*
Kocha, Elizabeth Mary se	*Green Bay*
Kratsch, Edna Frances se	*Oshkosh*
Larson, Nellie Marguerite	*Madison*
Little, Margaret Julia se	*Campbellsport*
McCarty, Agnes Josephine	*Brownsville*
MacDonald, Katherine Elizabeth	*Lake Geneva*
Melby, Oscar James se	*Eau Claire*
Monson, Eva Carolyn se	*Argyle*
Moran, Wilson Alexander se	*Onalaska*
Mowry, Marie Edith se	*Sun Prairie*
Nevins, Beatrice Irene se	*Oshkosh*
Nordness, Einer O. se	*Superior*
Osterndorf, Alfred William	*Platteville*
Patton, Clara Edwina	*Whitewater*
Pekel, Herbert	*Winchester, Idaho*
Rosenthal, Estella Alma	*West Allis*
Samuelson, Ruth Helene	*Hildreth, Neb.*
Schultz, Alma Ada	*Birnamwood*
Schultz, Minnie Martha	*Birnamwood*
Scritsmier, Kate Anne se	*Menomonie*
Seeboth, Alice Marie se	*Milwaukee*
Steuck, Elizabeth Emily se	*Milwaukee*
Stout, Harriet Maury	*St. Louis, Mo.*
Suess, Elisabeth Clara se	*Negaunee, Mich*
Sutton, Bessie Esther	*Seattle, Wash.*
Taylor, Edna Colvin	*Westfield*
Van Derhyden, Algoma Cecelia se	*Wabeno*
Victor, Florence Genevieve se	*Racine*
Vroman, Louise	*Madison*
Wieg, Ella Lydia	*Cambridge*
Wright, Millie Alice	*Barron*
Yahr, Mayme Louise	*Unity*

General Course (Bachelor of Philosophy)

Bekins, Paul	*Omaha, Neb.*
Booth, Jean Catherine	*Chicago, Ill.*

Brown, Carroll Campbell	*Milwaukee*
Cardiff, Joseph Burton	*Oshkosh*
Cranefield, Harold Alfred se	*Madison*
Freese, George Ernest	*Sioux Falls, S. D.*
Gluesing, Carl Edward	*Gilmanton*
Golden, Harry Mitchell se	*Milwaukee*
Grabin, Nathan	*Milwaukee*
Hatch, Mildred	*Bryn Mawr, Pa.*
Hegner, Herman Hofer	*West Chicago, Ill.*
Hilberts, Bert Martin	*Jefferson*
Hollister, Donald Edgar	*Milwaukee*
Holmes, Harold Harvey	*Pocatello, Idaho*
Hunsaker, Frances Jay	*Lancaster*
Johnson, Frederick Wall	*Rockford, Ill.*
Jones, Edward Cole	*Ft. Atkinson*
Kearns, Leo Harold	*Madison*
Kuebler, Kenneth J.	*Viroqua*
Lenicheck, Frank Adolph	*Milwaukee*
Lowe, James Franklin	*Oconomowoc*
McAndrew, Harry Francis	*New Richmond*
McDonald, Elizabeth Pauline se	*South Wayne*
Mason, Christopher Leroy	*Blanchardville*
Massey, Wright Ford	*Barneveld*
Nicholson, Doris Elizabeth	*Oshkosh*
Olson, Margaret Donovan se	*Madison*
Owens, Glenn	*Dodgeville*
Risk, Thomas Marion, se	*Madison*
Rounds, Harold Boyd	*Eau Claire*
Stillman, Jay Howard se	*Madison*
Stuart, Frank Clarence	*Batesville, Ark.*
Sullivan, John Howard	*Delavan*
Tucker, Albert Bellam	*Wilmette, Ill.*
Van de Water, Henry	*Midway*
Walters, Bernardine se	*Reedsburg*
Winding, Frederick Charles	*Wauwatosa*
Wise, Lorene Helen	*Platteville*
Wood, Violet Betty	*Milwaukee*

Chemistry Course

Cheng, Chiang	*Shanghai, China*
Clancy, Alice Mary	*Racine*
Dittmar, Harry Robert	*Fond du Lac*
Fosbinder, Russel John	*Dodgeville*
Groskopf, Edwin Otto	*Baraboo*
Jepson, Lester Ray	*Bear Creek*
Krueger, Walter Charles	*Oakfield*
McCubbin, Robert John	*Milton Junction*
Marten, Eldor August	*Oshkosh*

Matsen, Helene	*Oregon*
Tormey, Harold Joseph se	*Madison*
Wainwright, Wilmer Garrett	*Green Bay*
Weinreich, Lawrence Earnst	*Chicago, Ill.*

Chemistry–Commerce Course

Buxbaum, Edwin Clarence	*Milwaukee*
Coulter, Harold Leroy	*Madison*
Norgord, Andy	*Madison*
Stegeman, William Lovell	*Ft Thomas, Ky.*

Course in Physical Education
(School of Education)

Adams, Emily Augusta	*Galesburg, Ill.*
Alton, Everett Ernest	*Sayner*
Brown, Genevieve Rose	*Lyons, Ill.*
Carrell, Lois	*Chicago, Ill.*
Fannin, Nina Catherine	*Phoenix, Ariz.*
Field, Ada Marguerite	*Rudyard, Mich.*
Fisher, Jean Abbie	*Cedar Rapids, Iowa*
Hampton, Alma Beatrice	*Bloomsburg, Pa.*
Jackson, Katherine Eldora	*Madison*
Jones, Elizabeth Mabel	*Black River Falls*
Klingler, Ruth Helen	*Milwaukee*
Kuehlthau, Brunetta Avis	*West Bend*
Luenzmann, Leonore Schell	*Milwaukee*
Mahaney, Helen Mae	*Madison*
Masterson, LaVerne Anne	*Oak Park, Ill.*
Muscheid, Gladys Elizabeth	*West Salem*
Norton, Marylyn Clair	*Douglas, Ariz.*
Oakes, Esther Marion	*Canton, Ohio*
Parker, Helen	*Madison*
Robertson, Carita Maude	*Moorhead, Minn.*
Robinson, Helen Margaret	*Lake Geneva*
Rugen, Mabel Esther	*Glenview, Ill.*
Scanlan, Gerald	*Fennimore*
Simpson, Daisy Isabelle	*Delavan*
Smith, Ann Avery	*Detroit, Mich.*
Steinbach, Helen Florence	*New Rochford, N. D.*
Streng, Marion	*Grand Rapids, Mich.*
Troemel, Ernestine Ann	*Madison*
Walker, Venus Victoria	*Wayne, Mich.*
Walls, Janet Katherine	*St. Paul, Minn.*
Wenz, Leonard Arthur	*Watersmeet, Mich.*

Course in Applied Arts
(School of Education)

Allcott, Ruth Evelyn	*Fond du Lac*
Bartle, Gladys Leora	*Madison*
Cunningham, Mary Augusta	*Platteville*
Douglas, Bernice Elmira	*Wheaton, Ill.*
Engel, Doris Wilhelmina	*Madison*
Gilbert, Gretchen Louise	*Madison*
Gray, Ida Ellen	*Madison*
Griffith, Esther Rhoda	*Madison*
Hansen, Eleanor Cary	*Madison*
Jandell, Blanche Lydia	*Milwaukee*
Klerner, Martha	*New Albany, Ind.*
Langhoff, Anita Catherine	*Milwaukee*
Lee, Vera Kneebone	*Eveleth, Minn.*
Morton, Katherine Godfrey	*Wauwatosa*
Rice, Catherine Marie	*Madison*
Stiver, Michael LaMar	*Goshen, Ind.*
Toepfer, Esther Ottilie	*Madison*

Course in Industrial Education
(School of Education)

Dales, Edward Lemont	*Cheney, Wash.*
Fraederick, Walter William	*Oshkosh*
Fuller, Ira Smith	*Madison*
Hippaka, Thomas August	*Ely, Minn.*
Manzer, Emerson William	*Beaver Dam*
Martin, Thomas Jefferies	*Lexington, Tex.*
Rose, Leland Martin	*Monticello*

Sophomores

Adams, Dorothy Jane	*Chillicothe, Mo.*
Aitken, Herbert MacGregor	*Bozeman, Mont.*
Alexander, Martha Cummings	*Cresco, Iowa*
Alk, Isadore George	*Green Bay*
Allan, Russell Hopper	*Waterloo, Iowa*
Alschuler, Corinne Therese	*Aurora, Ill.*
Ames, Leola Elizabeth	*Acushnet, Mass.*
Amundson, Monnie Amanda	*Eau Claire*
Anderson, Oswald Nickoly	*Madison*
Anderson, Ben Newhouse, Jr.	*La Grange, Ill.*
Anderson, Helen Dorothy	*MacFarland*
Anderson, Helen Marguerite	*Wauwatosa*
Anderson, Howard Benjamin	*Racine*
Anderson, Mildred Elizabeth	*Madison*

Anderson, Olga	*Eau Claire*
Armstrong, Charlotte	*Green Bay*
Armstrong, Charlotte	*Green Bay*
Arnquist, Katherine Humphrey	*Hudson*
Ashton, Margaret Emily	*Phelps*
Atwood, David Carpenter	*Madison*
Auracher, George Edward	*Ft. Madison, Iowa*
Axley, Frederick Russell	*Seymour*
Axtell, Marian Chase	*Newton, Kans.*
Aylward, Paul Jerome	*Madison*
Bach, Dorothy Helen se	*Chicago, Ill.*
Bachhuber, Romana Louise	*Mayville*
Backus, Merton Llewellyn	*Madison*
Backus, Otto August	*Milwaukee*
Bacon, Lois Bigelow	*Salt Lake City, Utah*
Baer, Helene Carless	*Neillsville*
Bailey, Dorothy Jane	*Princeton, Ill.*
Baker, Adelia Dale	*Madison*
Baker, Frederick Sherman	*West Bend*
Baldwin, Ruth Elizabeth	*Jeffersonville, Ind.*
Ballam, Cyril John	*Marshfield*
Ballou, Ralph Norton	*Naperville, Ill.*
Baltus, George Emil	*Laona*
Barry, Linda Elizabeth se	*Sauk City*
Bassett, Raymond	*Kishineff, Roumania*
Bauersfeld, Bernice Leta	*Elmhurst, Ill.*
Becker, Margaret Elise	*Chicago, Ill.*
Beggs, Kenneth Gould	*St. Croix Falls*
Behling, David John	*Milwaukee*
Bell, Earl Ross	*Madison*
Bell, Margaret	*Tomah*
Bender, Erma Jane	*Ableman*
Bendixen, Harriet	*Daevenport, Iowa*
Benfey, Georgiana	*Sheboygan*
Bennett, Kathryn Elizabeth	*Burlington*
Bent, Dorothy	*State Line*
Beran, Mary Cathryn	*Muscoda*
Berg, Elda Emma	*Milwaukee*
Bergheger, Myrna	*Lancaster*
Betts, Avice Mae	*Madison*
Beyreis, Myrtle Ruth	*Wausau*
Biles, Grace Lillian	*Highland Park, Mich.*
Billings, Curtis	*Madison*
Birkbeck, Norman John	*Gratiot*
Birnbaum, Isadore R.	*Milwaukee*
Bissinger, Erma	*Lansing, Mich.*
Black, Selenda Louise	*Milwaukee*
Blackman, Thane Miller, Jr.	*Whitewater*
Blair, Edward Blake	*Chicago, Ill.*
Blair, Mary Rebecca	*Belton, Mo.*

Blake, Helen Louise	*Madison*
Blake, William	*Fox Lake*
Blakslee, Elois Severson	*Williams Bay*
Bleim, Melvin Louis	*Mellen*
Bliler, Katharine Beale	*Kansas City, Mo.*
Bloch, Elsa	*New York, N. Y.*
Bloom, Elizabeth Bernice	*Butternut*
Blum, Otto Schindler	*Monticello*
Blum, Samuel William McKinley	*Mondovi*
Boaz, Mary Louise	*Dallas, Tex.*
Bodinson, Colleen Genevieve	*Chicago, Ill.*
Bolliger, Katherine Marie	*Madison*
Bolstad, Selma Clare	*Milwaukee*
Bolte, Bernice Elizabeth	*Chicago, Ill.*
Boning, William Jones	*Milwaukee*
Bowen, Lois Glee	*Willshire, Ohio*
Bowie, Margaret Lowndes	*Washington, D. C.*
Brader, Mary Bradley	*Madison*
Bradley, Eugene Ferring	*Dubuque, Iowa*
Brady, Anne Lucille	*Early, Iowa*
Brandt, Myrtle Henrietta se	*Nekoosa*
Bremer, Bernhard E.	*Madison*
Briggs, Oscar Edward	*Madison*
Brine, Gordon Francis	*Kenosha*
Broughton, Helen Beers	*De Kalb, Ill.*
Brown, Helen Agnes	*Mineral Point*
Browne, George Everett	*Madrid, Iowa*
Bryant, Leone Pauline	*Joliet, Ill.*
Bubolz, Richard Charles	*Seymour*
Buchbinder, Hazul Louise	*Milwaukee*
Bulkley, Elizabeth Chetwood	*Oklahoma City, Okla.*
Burchard, Thomas Charles	*Ft. Atkinson*
Burkman, Florence Lannea se	*Roscoe, Ill.*
Burt, Margaret Jennings	*Chicago, Ill.*
Busch, Helen Louise	*Chicago, Ill.*
Busyn, Helen Frances	*Duluth, Minn.*
Butler, Kathryn Clara	*Wauwatosa*
Butscher, Anita Glenola se	*Milwaukee*
Butterfield, Howard Millard	*Amherst, Mass.*
Cahill, Hawley Smith	*Milwaukee*
Caldwell, Ruth	*St. Croix Falls*
Callise, Julia Elizabeth se	*Baraboo*
Campbell, Larch	*Madison*
Cannon, Don Ralph	*La Grange, Ill.*
Casselman, William Allen	*Milwaukee*
Cassidy, Samuel Mallory	*Grand Rapids, Mich.*
Cavanagh, Catherine Josephine	*Chicago, Ill.*
Cheeseman, Loraine Mary	*Burlington*
Chesley, Bernardine	*Armour, S. D.*
Childs, Cliff Lorne	*Eau Claire*

Cholseth, LeRoy John	*Cambridge*
Christians, William Alfred, Jr.	*Johnson Creek*
Church, Gilbert Benjamin	*Walworth*
Clapp, Don se	*Madison*
Clark, Alice Whitton	*Oak Park, Ill.*
Clark, Janet Elizabeth	*Madison*
Clark, Juliet Madelene	*Oshkosh*
Clausen, Stanley Edward	*Sheboygan*
Cleveland, Paul Clement	*Madison*
Cobabe, Frances Vivian	*Wauwatosa*
Cohen, Lucie Anita	*Green Bay*
Colby, Lujean Mable	*Janesville*
Coleman, Russell Brewer	*Janesville*
Collins, Royden Fred	*Wautoma*
Congdon, Olive Elizabeth	*Delavan*
Cooke, Sydney Marsden	*East Orange, N. J.*
Copeland, Walter Dixon	*Denver, Col.*
Corcoran, Catherine Eileen	*Beloit*
Corfield, Barbara	*Madison*
Costigan, Stella Marcelline	*Madison*
Coutant, Paul Lyman	*Danville, Ill.*
Cowan, Jean Keller	*Box Elder, Mont.*
Cowan, Martha Simmons	*Kansas City, Mo.*
Coxe, Virginia Montague	*Whitewater*
Craft, Marjorie Elizabeth	*Chicago, Ill.*
Crawford, Eugene Flynn	*Rockford, Ill.*
Crilley, Hazel Ehredt	*Milwaukee*
Cromer, Katherine Irene	*Aurora, Ill.*
Crosby, Bernice Wanda	*Wakefield, Mich.*
Cross, Dorothy L. se	*Sycamore, Ohio*
Cross, Hortense Nina	*Waupun*
Crowley, Clifford Jordan	*Eau Claire*
Crowley, Ralph Manning	*Madison*
Cummings, Sabina Mary	*Hudson*
Curran, Helen Lucile	*Escanaba*
Cushman, Helen	*Chicago, Ill.*
Dahlman, Dorothy Evelyn	*Plymouth*
Daly, Beatrice Marjorie	*Beloit*
Damsheuser, Carl William	*Appleton*
Darrow, Zella Edith	*Superior*
Daugharty, Gordon Dunbar	*Detroit, Mich.*
Davidson, Ruth Margaret	*Milwaukee*
Davis, Catherine	*Oak Park, Ill.*
Davis, Dorothy Gertrude	*Sparta*
Dawson, Emily Warren	*Madison*
Dawson, George Waller, Jr.	*Dalhart, Tex.*
Day, Maxine Leuretta	*Tulsa, Okla.*
Deacon, Albert Edwards	*Ft. Smith, Ark.*
De la Hunt, Carol Allcott	*Milwaukee*

Dell, Lillian Imogene	*Black River Falls*
De Mesa, Jesus Dionida	*Alaminos, Lag., P. I.*
Denison, John De Los	*Des Moines, Iowa*
Dickinson, Clyde Grant	*Dundee, Ill.*
Diebold, Marshall John	*Madison*
Dingman, Roy Albert	*Plymouth*
Doeringsfeld, Helen Elizabeth	*Fennimore*
Dohse, Violet Elizabeth	*Prairie du Chien*
Dolloff, Gladys Anna	*Gardiner, Me.*
Donkle, Harold LaSalle	*Plymouth, Ill.*
Donohue, Donald Joseph	*Helena, Mont.*
Doyle, Josephine	*Columbia City, Ind.*
Doyle, Lucy Eleanor	*Columbia City, Ind.*
Drake, Gwendolyn Florence	*E. Cleveland, Ohio*
Dregney, Lenore Kristine	*Milwaukee*
Druse, Ethel Dorothy	*Milwaukee*
Dubin, Sam Stanton	*Kenosha*
Duehr, Peter Alexander	*Hayward*
Dufa, Harriet	*Moline, Ill.*
Dunlap, James Hudson	*Dallas, Tex,*
Dunlap, John Elbert	*Dallas, Tex.*
Durand, Samuel Relf	*Milwaukee*
Dutton, John Ellis	*Long Beach, Cal.*
Dye, Edward Ellsworth	*Detroit, Mich.*
Dynes, John Burton	*Mt. Carroll, Ill.*
Eastman, Lillian Helen	*Evanston, Ill.*
Eaton, Mildred Elizabeth	*S. Milwaukee*
Eberly, Clara Baldwin	*E. Cleveland, Ohio*
Eckhardt, Miriam Euphemia se	*Viroqua*
Edwards, Lily Watson	*Malta, Mont.*
Eggert, Irene Frieda	*Milwaukee*
Ehlert, Eleanor Lovesta	*Milwaukee*
Eiseman, Cecil Lenore	*Chicago, Ill.*
Ellingson, Margaret Ann	*Madison*
Ellingson, O. Frederick	*Edgerton*
Ellis, Genevieve	*Madison*
Ellis, Joyce De Voe	*Madison*
Englebert, Mildred Josephine	*Algoma*
Engler, Mildred Naomi	*Madison*
English, Charlotte	*Oconto*
Ernst, Daisy Elizabeth	*Madison, Ind.*
Esch, John Henry	*La Crosse*
Estes, Elizabeth Warner	*Nashville, Tenn.*
Evans, Albert Ellis	*Racine*
Evans, Elizabeth	*Madison*
Faleide, Berglioth Amy	*Oak Park, Ill.*
Falk, Ola Nelson	*Lake Mills*
Farber, Milton William	*Reedsburg*
Feak, John Milburn	*Bangor*

Feerer, Helen Shirley	*Detroit, Mich.*
Fenelon, Katherine Harriet	*Pollock, S. D.*
Fiedler, Marjorie Antoinette	*Mineral Point*
Finberg, Opal Harriet	*Minneapolis, Minn.*
Finn, Walton Chaffee	*Santa Anna, Cal.*
Finucane, Francis Clark	*Antigo*
Fletcher, Ruth Anna	*Bangor*
Flood, Inez Mae	*Portage*
Floyd, Florice Lucille	*Eureka*
Flynn, Ellen Louise	*Madison*
Flynn, Margaret Louise	*Indiana, Pa.*
Foster Frank Sheldon	*Peoria, Ill.*
Foster, Frederick Kimball	*Fond du Lac*
Foster, Winnefred Mary	*Beloit*
Fotheringham, Edith Jessie	*Eau Claire*
Francis, Margaret Ann	*Kennan*
Freese, Evelyn Anita	*Sioux Falls, S. D.*
Frink, George Volney	*Peoria, Ill.*
Fritsche, Carl	*New Ulm, Minn.*
Fromm, Arno Henry se	*Elkhart Lake*
Fromm, Clarence William	*Elkhart Lake*
Frye, Gerrit	*Madison*
Frye, Orville Myron	*Emmetsburg, Iowa*
Fuhlbrigge, Arthur Alfred	*Madison*
Fuqua, Evelyn McLean	*Okmulgee, Okla.*
Furman, Fannie	*Beloit*
Gaetzman, Laparda Jean se	*Wausau*
Gage, Everett Lyle	*Whitehall*
Gaines, Dorothy Julian	*Louisville, Ky.*
Galinsky, Della	*Sioux City, Iowa*
Gamm, Renata Leanore	*La Crosse*
Garens, Ralph William	*Milwaukee*
Gartenberg, Pearl Jackson	*Hot Springs, Ark.*
Gates, Harley Clarke	*Chicago, Ill.*
Gault, Alice Marie	*Portage*
Geier, Benno George	*Plymouth*
Gerber, Erwin Charles	*Milwaukee*
Gernon, Edward Taylor	*Madison*
Gevaart, Theodore Claude	*West Allis*
Gilder, Reva Clara V.	*Lancaster*
Gillette, Frank Jackson	*Tomahawk*
Gilmore, Eliot	*Somerville, Mass.*
Gindorff, Charles Ferring	*Dubuque, Iowa*
Ginsberg, Lillie	*Alexandria, La.*
Gleisner, Mildred Ruth	*West Allis*
Goggin, Katherine Ellen	*Madison*
Goodnight, Eleanor Constance	*Madison*
Gordon, Miriam	*Whiting, Ind.*
Graf, Harriet Stephanie	*Milwaukee*

Graf, Ruth Edith	*Mukwonago*
Grahlman, Irene Ann	*Johnson Creek*
Gram, Laurence Carter	*West Allis*
Gratz, George	*Milwaukee*
Gray, Theodore Winchester	*Milwaukee*
Grebel, Angela Helen	*Randolph*
Griesser, Hans Richard	*Chicago, Ill.*
Gross, Chester Arthur	*Duluth, Minn.*
Grubb, Margaret	*Stanley*
Grubb, Rena	*Stanley*
Gruhl, Alfred Monroe	*Milwaukee*
Gruner, Jessie Beatrice	*Portage*
Gunderson, Sven Martin	*La Crosse*
Guthrie, William Mackey	*Indiana, Pa.*
Haack, Arno John	*Rochester, Minn.*
Hackett, Marie Anna	*Pewaukee Lake*
Haglund, Alvin Serem	*Hurley*
Hahn, Frederick Anthony	*Watertown*
Hahn, William Henry	*Milwaukee*
Haider, Donald Harold	*Madison*
Hall, Mary Learned	*Winnetka, Ill.*
Halperin, Myron	*Madison*
Halperin, Rose Marjorie	*Madison*
Haman, Theodora Louise	*Monroe*
Hand, Elbert Osborne	*Racine*
Haney, Hance Francis	*Westfield*
Hansen, Arthur Chester	*Racine*
Hanson, Sidney Junius	*Osceola*
Hardgrove, Maurice A. Francis	*Fond du Lac*
Hardy, Genevieve Babbitt	*S. Bend, Ind.*
Harmon, Leonard Doyle	*Mitchell, S. D.*
Harmon, Marian Oleson	*Oshkosh*
Harris, Luise Nina	*Indianapolis, Ind*
Harris, Welton Winans	*Racine*
Harter, John Spencer	*Kokomo, Ind.*
Hartman, Rudolph Albert	*Lancaster*
Hass, Elizabeth Dorothea	*Reedsburg*
Hastings, Catharine Dorothy	*Bronxville, N. Y.*
Hatmaker, Donald Burgoyne	*Chicago, Ill.*
Hawley, Ruth Margaret	*Winnetka, Ill.*
Hay, Helen Margaret	*Antigo*
Hayes, Blanche Anne	*Green Bay*
Hayes, Robert	*Milwaukee*
Hayssen, Marie Elizabeth	*Sheboygan*
Head, Daniel Orin, Jr.	*Kenosha*
Hebgen, Max	*Butte, Mont.*
Hecht, Adrienne	*Chicago, Ill.*
Hedback, Miriam Fitch	*Cumberland*
Hein, Reinhard George	*Baraboo*

Held, Milbert William	*Milwaukee*
Hendricks, Meredith Sherwood	*Ingleside, Ill.*
Hendrickson, Hazel Beatrice	*Madison*
Hendrickson, Sherman R.	*Elgin, Ill.*
Henry, Beulah Harriet	*Milwaukee*
Henry, Merlin George	*Platteville*
Hermansen, Albert John	*St. Croix Falls*
Herrling, Eugene Henry	*Madison*
Hewitt, Elizabeth Nan	*Des Moines, Iowa*
Hewitt, Ruth Georgene	*Des Moines, Iowa*
Hibbard, Virginia Jeanette	*Madison*
Hickey, Agnes Hazel se	*Reedsburg*
Hildreth, James Eugene	*Oak Park, Ill.*
Hill, Margaret Lorraine	*De Pere*
Hillyer, Jean Frances	*Eau Claire*
Hilpertshauser, Evelyn Anna se	*Sheboygan*
Hinners, Florence Miriam	*Chicago, Ill.*
Hinsdell, Carolyn	*Des Moines, Iowa*
Hintze, Vivian Varo	*Prairie du Chien*
Hipple, James Bowman	*Pierre, S. D.*
Hobbins, John Suhr	*Madison*
Hobbs, Elinor Cornelia	*Mt. Vernon, Ohio*
Hoebel, Pauline Verthein	*Madison*
Holscher, Frank Charles	*McFarland*
Horth, Emily Bernice	*Madison*
Horwitz, Harry	*Oshkosh*
Horwitz, Simon	*Oshkosh*
Howell, Dorothy Louise	*Hinsdale, Ill.*
Howells, Margaret Eleanor	*Streator, Ill.*
Hudson, Leo Arthur	*Madison*
Huff, Clifford Irving	*Randolph*
Hughes, Byron James	*Pardeeville*
Hull, Bertha Intzi	*Madison*
Hunt, Helen Margaret	*Madison*
Hurlbut, John Bingham	*Omro*
Huseby, Donald M.	*Madison*
Hutchison, Ruth	*Mineral Point*
Inda, Roger Vernon	*Milwaukee*
Inglis, Miriam Swett	*Oshkosh*
Ingold, Gertrude Elizabeth	*Monroe*
Innes, Eleanor	*Kansas City, Mo.*
Isaacson, Leon Erwin	*Spring Valley*
Jackson, William O.	*South Bend, Ind.*
James, Beulah Laura	*Richland Center*
Janura, Robert Victor	*Cicero, Ill.*
Jennings, Edith	*Washington, D. C.*
Jensen, Merritt Ellsworth	*Sheboygan*
Jenson, Clara Agnes	*Madison*
John, Mildred	*Milwaukee*

Johnson, Alberta Mildred	*Mt. Horeb*
Johnson, Lenore Shearer	*Madison*
Johnson, Thelma Lucile	*Bottineau, N. D.*
Johnston, David Martell	*Madison*
Johnston, Greta Leber	*Merrimac*
Jones, Frank	*Appleton*
Jones, George Archibald	*Chicago, Ill.*
Jones, Lucile Forrest	*Waupun*
Jordan, Harold se	*Rochester*
Juneau, Marion Mabel	*Milwaukee*
Kading, Charles Earl	*Madison*
Kandel, Ernestine Veronica	*Oconto*
Katz, George	*New Glarus*
Kaye, Neva	*New York, N. Y.*
Keay, Carol Seaver	*Clifton Heights, Pa.*
Keay, Edythe Leonard	*Clifton Heights, Pa.*
Kehl, Kenneth Charles	*Racine*
Kehr, Edwin Frank	*Watertown*
Keller, Leslie George	*Milwaukee*
Kelley, Ruth Evangeline	*Madison*
Kellogg, Mary Virginia	*Janesville*
Kelso, Ruth Lucille	*Oak Park, Ill.*
Kennedy, Kenneth Richards	*Monticello*
Kerr, Howard B.	*Chicago, Ill.*
Kerr, Marie Patricia	*Spokane, Wash.*
King, Elizabeth	*Nashville, Tenn.*
Kinzel, Mildred	*Merrill*
Kirk, Ruth Hannah	*Maumee, Ohio*
Klee, Henry	*Alma*
Klindt, Lillian Alice	*Cassville*
Klug, Bernice Druse	*Milwaukee*
Knauf, Catherine Clara	*Kiel*
Kney, Mary Andrea	*Madison*
Kober, Mary Helen	*Janesville*
Koch, Elsie Pauline se	*Mt. Horeb*
Koehler, Warren Brown	*Racine*
Koutsky, Helen	*Colby*
Kranzfelder, Joseph Godfrey	*Bloomer*
Kreatz, Lorraine Ione	*Bemidji, Minn.*
Kreutzer, Helen Minet	*Athens*
Krueger, Reginald Merton	*Milwaukee*
Kubly, Raymond Rodney	*Juda*
Kuhns, Stillman	*Madison*
Kundert, Marion Louise	*Monroe*
Kusta, Julia Frances	*Two Rivers*
La Boule, Alice Catherine	*Milwaukee*
Lacy, Volney Field	*Madison*
Lahey, Alice Marion	*Marinette*
Laitner, Carter	*Detroit, Mich.*
Lallier, Halcyon Woodward	*Madison*

Lange, Eugene William	*Ozaukee*
Lansworth, Vivian Carolyn	*Ogema*
Larson, Agnes	*Westby*
Larson, Ruth Marion se	*Madison*
Leabel, Isabel Catherine	*Loyal*
Leavitt, Ned Harrison	*Sioux Falls, S. D.*
Lee, Sadie Mae	*Wittenberg*
Legler, John Clarke	*Evanston, Ill.*
Lehman, Margaret Elizabeth	*St. Joseph, Mich.*
Leinfelder, Placidus Joseph	*La Crosse*
Leissring, William, Jr.	*Milwaukee*
Leitl, Lester Justine	*Sturgeon Bay*
Lennon, Marion se	*Portage*
Leonard, Arthur	*Elwood, Ind.*
Leonard, Robert Albert	*Danville, Ill.*
Lepper, Lucile se	*Menomonee Falls*
Leverenz, Howard John	*Waldo*
Lewis, Dorothy Adeline	*Middleton*
Libby, Margherita Louise	*Indianapolis, Ind.*
Lindley, Lynnette Inabelle	*Madison*
Lobstein, Amy Marie	*Chicago, Ill.*
Logeman, Charlotte Helen	*Milwaukee*
Ludwig, Carl John	*Milwaukee*
Lueth, Evangeline Martha	*Manitowoc*
Lund, Richard Jacob	*Racine*
Luther, Margaret Helen	*Poynette*
Lynde, Robert Gordon	*Antigo*
Lyon, Alice Esther	*Wausau*
Lyons, James Warrington, Jr.	*Chicago, Ill.*
Lyons, Owen Eugene	*Appleton*
McCabe, Florence Evelyn	*Madison*
McCall, Ethel Harriet	*Kenosha*
McCarthy, Kathryn Olive	*Marinette*
McCaul, Katherine Agnes	*Tomah*
McClary, Dorotha June	*Muscoda*
McDonnel, Herbert Paul	*Laona*
McDonough, Kenneth Bernard	*Toledo, Ohio*
McFadden, Paul Richard	*Dubuque, Iowa*
McGarty, Patricia Helen	*Madison*
McGinnis, George Earl	*Waukesha*
McGregor, George Harvey	*Cloquet, Minn.*
McLennan, Mary Ayrault	*Detroit, Mich.*
McLaughlin, Anna Elizabeth	*Plainfield*
McLaughlin, Vern Melville	*Marshall, Minn.*
McManus, Florence Constance	*Council Bluffs, Iowa*
McMurry, Helen Hiett	*Lake Forest*
Magaro, Nick Albert	*Kenosha*
Mahlik, Wencil	*Stangelville*
Mahorney, Elizabeth Morgan	*Madison*

Manson, Martha Bell	*Terre Haute, Ind.*
Markham, Marion	*St. Paul, Minn.*
Marling, Margaret	*Madison*
Marschall, Louise Kathryn	*Madison*
Martens, Lorraine Christine	*Madison*
Martin, Violet Rose	*Tomah*
Massey, Wallace Herbert	*Green Bay*
Masslich, Beverly Treen	*Riverside, Ill.*
Mathews, Ruth Oneta	*Pueblo, Col.*
Matthias, Miriam	*Maquoketa, Iowa*
Matyas, Jennie	*New York, N. Y.*
Mautz, Louise Elizabeth	*Madison*
Mecikalski, August Ernest	*Pelican Lake*
Melendy, Loren Thayer	*Columbus*
Messner, Otto Edward	*Sheboygan*
Meyers, Henry August	*Madison*
Milde, Irma Amelia	*Lakewood, Ohio*
Miller, Clark Addison	*Whitewater*
Miller, Pauline	*Pittsburgh, Pa.*
Milligan, Rachel Iolene	*Springfield, Ohio*
Moehlenpah, Alice	*Milwaukee*
Moeller, Dorothy Adeline	*Waukesha*
Moody, Ruth Alice	*Janesville*
Moore, Alfred Nash	*Rockford, Ill.*
Moore, Senorita Evangeline	*Woodstock, Ill.*
Morgenroth, Edwin Carl	*Kewaskum*
Morris, Russell Osgood	*Madison*
Morrison, Garnet Irene	*Madison*
Morrissey, Hazel Kathryn	*Arena*
Morrissey, Lucille Clara	*Madison*
Morrow, Grace Virginia	*Electra, Tex.*
Morse, Dorothy Marie	*Hinsdale, Ill.*
Morsell, Arthur Lee, Jr.	*Milwaukee*
Mortensen, Otto Axel	*S. Milwaukee*
Moskowitz, Paul	*Milwaukee*
Moss, Mary Robins	*Cambridge, Ohio*
Mueller, Marjorie Anna	*Milwaukee*
Muir, Grace Marion	*Lomira*
Muller, Martha	*Holland, Mich.*
Murphy, Elaine Marjorie	*Riverside, Ill.*
Murphy, Margaret Mary	*Kilbourne*
Nathenson Rose Annet	*Madison*
Neckerman, Eunice Elizabeth	*Madison*
Neikirk, Dorothy Kreader	*W. Pittston, Pa.*
Nelson, Florence Helen	*Chicago, Ill.*
Nerdrum, Stanley Leroy	*Madison*
Neubert, Albert Daniel	*Milwaukee*
Newell, Frank Fordyce	*Burlington*
Newton, Burnett Perry	*Fargo, N. D.*
Nickel, Arthur Horace	*Tomahawk*

Nicodemus, Richard Canby	*Madison*
Niedercorn, Joseph George	*Manitowoc*
Nieman, Norman Gilbert	*Wausau*
Nienaber, Luella Margaret	*Manitowoc*
Nienaber, Margarette Eleanor	*Madison*
Nixon, Russell Arthur	*Valparaiso, Ind.*
North, Muriel Welles	*Chicago, Ill.*
Oberdeck, Lydia Louise Marie	*Edgerton*
Oberndorfer, Ruth Esther	*Milwaukee*
Oko, Pearl	*Cincinnati, Ohio*
Ollis, Helen Janet	*Madison*
Olson, Janet Mary	*Madison*
Olson, Leonard	*Ashland*
Olson, William Leslie	*Madison*
Olwell, Gladys Katheryn	*Madison*
O'Malley, William Patrick	*Waunakee*
Oglebeke, Corine Adriana	*Sheboygan*
Osborne, Jane Frances	*Milwaukee*
Otto, Vernon Albert	*Randolph*
Overton, James Bertram, Jr.	*Madison*
Paddock, Robert H.	*Calumet, Mich.*
Page, Anna Katherine	*Oconomowoc*
Patzer, Walter Emil	*Antigo*
Pazour, Alice Wilhelmina	*Kimball, S. D.*
Peacock, Luella Belle	*Chicago, Ill.*
Peard, Leslie Raymond	*East Pembroke, N. Y.*
Pearse, Richard Lehmer	*Madison*
Pedigo, Dorothy Lee	*Chicago, Ill.*
Peet, Carolyn Love	*Hinsdale, Ill.*
Peet, Julia Taft	*Hinsdale, Ill.*
Pegg, Alice Louise	*Merrimac*
Pelegrin, Leslie Joseph	*Suamico*
Penn, Bessie Louise	*Monroe*
Penn, Margaret	*Monroe*
Perlowski, Frances Antoinette	*Chicago, Ill.*
Peterson, Aldon Merril	*Frederic*
Petroff, Louis	*Bulgaria, Europe*
Pettit, Donald Dalton	*N. Fond du Lac*
Phillips, Clyde Lincoln	*Madison*
Phillips, Harry Ansil	*Terre Haute, Ind.*
Phillips, Lucille	*Reedsburg*
Phillips, Neal John	*Chicago, Ill.*
Phillips, Rose Anna	*Freeport, Ill.*
Pidcoe, Mary Elizabeth	*Madison*
Piehl, Lillian Rose	*Williams Bay*
Pier, Elizabeth	*Richland Center*
Pierson, Bernice Jane	*Madison*
Pitschner, Doris Elizabeth	*Madison*
Pitz, Darwin	*Manitowoc*
Peatzer, Florence Frances	*Milwaukee*

Pomainville, Janet Elizabeth se	*Wisconsin Rapids*
Pomrening, Isabel Emily	*De Pere*
Poppenhagen, Florence Gill	*Chicago, Ill.*
Porter, Ruth Eleaner	*Chicago, Ill.*
Porter, Stuart Perlee	*Brookfield, Ill.*
Potter, Doris Geraldine	*St. Joseph, Mich.*
Powers, Kenneth Vernon	*Cudahy*
Pratt, Clara Dana	*Madison*
Pratt, Elizabeth Lord	*Chicago, Ill.*
Prien, Edwin Louis	*Columbus*
Puehler, Ruth Mary	*Madison*
Putnam, Luella Edgerton	*Normal, Ill.*
Quade, Raymond Henry	*Kewaskum*
Raasch, Gilbert Oscar	*Milwaukee*
Rabinoff, Rebecca Edith	*Madison*
Rasmussen, Jane Tenney	*Madison*
Rasmussen, Margaret Ovedia se	*Stoughton*
Rau, Gerald Albert	*Two Rivers*
Rauchschwalbe, Lother Ernst	*Milwaukee*
Reed, Olive Ruth	*Madison*
Reed, William Page	*Milwaukee*
Reilly, Ineva Frances	*Indianapolis, Ind.*
Rentz, Wilhelmina Alma	*Madison*
Resnick, David	*Milwaukee*
Reynolds, Marion Elizabeth	*Milwaukee*
Richardson, Helen Elizabeth	*Shenandoah, Iowa*
Rietz, Paul Charles	*Evansville, Ind.*
Riley, John Rogers	*Arbor Vitae*
Risteen, Wilford Arless	*Chippewa Falls*
Rivers, Byron Folsom	*Louisville, Ky.*
Roach, Carroll Ewart	*Madison*
Roberts, Wilfred Stanley	*River Forest, Ill.*
Robertson, Marion Louise	*East Aurora, N. Y.*
Robinson, Frank Elizabeth	*Milwaukee*
Roby, Winifred Eleanor	*Milwaukee*
Rogers, Harry Lovejoy Trent	*Omaha, Nebr.*
Rogers, Mildred Maxine	*Tulsa, Okla.*
Rooney, Lloyd Henry	*Baraboo*
Root, Florence se	*West Allis*
Roper, Howard Wesley	*Milwaukee*
Rosenthal, Laura Harriett	*Flint, Mich.*
Rowe, Harriett Catherine se	*Milwaukee*
Ruggles, Harry Kenneth	*Chicago, Ill.*
Russel, Ellery Channing	*Madison*
Rutherford, Marcelles Claudia	*Chicago, Ill.*
Saffro, Lionel Bertram	*Milwaukee*
Sampson, Quinten T.	*Milwaukee*
Sanborn, Wanda Janet	*Madison*
Sander, Willard Gustav	*Madison*
Sanderson, Charles Harrison	*Madison*

Sannes, William Andreas	*Madison*
Sattler, Lucile Harriet	*Milwaukee*
Scanlon, Helen Agnes se	*Madison*
Schade, Robert Elmer	*Milwaukee*
Schaettle, Livia Helen	*Mondovi*
Schager, Edward Phillip	*Evanston, Ill.*
Schallert, Marion Vespera	*Winston Salem, N. C.*
Scheible, Juanita Stafford	*Chicago, Ill.*
Schlosser, Emma-Jo	*Wauwatosa*
Schmidt, Louise May	*Arcadia*
Schmidt, Merle Lucrece	*Madison*
Schmidt, Kenneth Francis	*Madison*
Schmitt, Leonard Frank	*Merrill*
Schneider, Mary Elizabeth	*Beloit*
Schoenlaub, Harold Houghton	*Madison*
Schou, Frances Alma	*Springfield, Ill.*
Schubert, Clarence John	*Menasha*
Schuette, Martha Rose	*Manitowoc*
Schurman, Hortense Ruth	*Denver, Colo.*
Schuster, Eugene Birkenwald	*Milwaukee*
Schutt, George Abram	*Kendallville, Ind.*
Schwaab, Mildred Antoinette	*Oconomowoc*
Schwarting, Milton Albert	*Green Bay*
Schweke, Antoinette Bertha	*Reedsburg*
Scott, Fern Elizabeth	*Madison*
Segal, Rozetta Edythe se	*Appleton*
Senty, Lester Anton	*Independence*
Severson, Ingeborg Carinne	*Stoughton*
Seyer, Virginia Louise	*Chicago, Ill.*
Shafer, Harry Burnell	*Merrill*
Shaffer, Mary Elizabeth	*Downer's Grove, Ill.*
Shaffer, Velma Ruth	*Bourbon, Ind.*
Shapiro, Harry	*Milwaukee*
Shapiro, Noah Norman	*Milwaukee*
Sharp, Darrell Sidney	*Evansville*
Sharp, Norman G. E.	*Corning, N. Y.*
Sharples, Marcus John	*Milwaukee*
Shaw, Alice Frost	***Brocton, Mass.***
Shea, Mary Regina se	*Dubuque, Iowa*
Sheldon, William Alexander	*Lake Geneva*
Sheridan, James Thomas	***Janesville***
Sherman, Cyril Fantus	*Madison*
Sherman, Grace Whitney	*Vienna, Va.*
Shields, Clyde Morse	*Gays Mills*
Shirk, Esther Marilla	*Delphi, Ind.*
Showerman, Anita May	*Madison*
Siljan, Harold Godfrey	*Madison*
Simpson, Bessie May	*Center, Ind.*
Singer, Eleanor Douglas	*Chicago, Ill.*
Slenkin, Michael Theodore	***Harbin, Manchuria, Russia***

Sly, Margaret	*East Aurora, N. Y.*
Smedal, Agnar Tengel	*McFarland*
Smedal Magnus Ingvald	*McFarland*
Smith, Editha Blanche	*Chicago, Ill.*
Smith, Frances Stevens	*Madison*
Smith, Morton Vernon, Jr.	*Chicago, Ill.*
Smith, Paul Tracy	*Hammond, Ind.*
Smith, Russell Carl	*Ft. Atkinson*
Sorenson, Volmer Henry	*Milltown*
Sosland, Louis	*Kansas City, Mo.*
Soward, Kathryn Louise	*Chicago, Ill.*
Spater, Marian Elaine	*Detroit, Mich.*
Spear, Harry Eldridge, Jr.	*La Grange, Ill.*
Spencer, Evelyn Bess	*Toledo, Ohio*
Spring, Lynn Sherwood	*Madison*
Staedtler, Monica Josephine	*Madison*
Stanton, Ed Daniel	*Mitchell, S. D.*
Start, Wilber Floyd	*Toledo, Ohio*
Stearns, Catherine Florence	*Mishawaka, Ind.*
Stebbins, Sarah Schuyler	*Madison*
Stebbins, Walter Whitman	*Madison*
Steel, Bernice Bessie	*Milwaukee*
Steffen, Adeline Elizabeth	*Madison*
Stegeman, Frank Phister	*Ft. Thomas, Ky.*
Stehn, Florence Clarke	*Madison*
Stemm, Fred Howard, Jr.	*Chicago, Ill.*
Sternlieb, Esther Edith	*Milwaukee*
Stewart, Hazel Emmerette	*Janesville*
Stibgen, Mary Louise	*Freeport, Ill.*
Stienecker, Frederick Rudolf	*Madison*
Stolen, Sere I. (Miss)	*Madison*
Stone, Fowler Penfield, Jr.	*Wausau*
Stone, Rosemary	*Saginaw, Mich.*
Stookey, Dorothy Adella	*Hinsdale, Ill.*
Strauss, Dorothy Eleanor	*Milwaukee*
Strauss, Dorothy Minetta	*Madison*
Strnad, Alvin Monroe	*Milwaukee*
Stuart, James Reeve	*Milwaukee*
Studley, William Harrison	*Milwaukee*
Sumner, John Duncan	*Manhattan, Kan.*
Svec, Marie Melvina	*Cedar Rapids, Iowa*
Swetil, Charles Harvey	*Milwaukee*
Swigart, Marian	*Clinton, Ill.*
Talley, Delbert Homer	*Terre Haute, Ind.*
Taylor, Elizabeth Catherine	*Madison*
Tederstrom, Albert Harlow	*Ironwood, Mich.*
Tegge, Charles William	*Two Rivers*
Teska, Milo Edward	*Wautoma*
Theis, Jane	*Colorado Springs, Col.*

Theisen, Harold Joseph	*Slinger*
Thomas, Robert McKee	*Madison*
Thompson, Geraldine L.	*Red Bank, N. J.*
Thompson, Katharine Helen	*Aurora, Ill.*
Thorbus, Martha Caroline	*Sparta*
Thorpe, Catherine Louise	*Milton Junction*
Thurber, William Fogo	*Richland Center*
Thwaits, Helen Pattee	*Milwaukee*
Toohey, Dorothy Ruth	*Milwaukee*
Toplan, Beatrice Dorothy	*Wausau*
Tormey, Kathryn Marie	*Madison*
Torpe, Testa Margaret	*Chicago, Ill.*
Tostenson, Bernard Anker	*Manitowoc*
Townsend, Grace Christine	*Poynette*
Tramonti, Jack René	*Chicago, Ill.*
Treweek, David Nicholas	*Mineral Point*
Tuhtar, Eugene William	*Milwaukee*
Twenhofel, Lillian Helen	*Madison*
Tyler, George Alexander	*Mellen*
Upton, Marjorie Ruth	*St. Joseph, Mich.*
Valentine, John Kalbach	*Centerville, Iowa*
Van Wagenen, James Henry	*Madison*
Vaughan, Royal Worth	*Madison*
Vaughn, Joseph Robert	*Hibbing, Minn.*
Vivian, Irene Ida	*Madison*
Vogel, Alice Louise	*Milwaukee*
Vogel, Thorn Leo	*Milwaukee*
Vollum, Arnold Ernest	*Eau Claire*
Walker, Gordon Reed	*Racine*
Walker, Mary Anne	*Peking, China*
Walker, Maxine Evelyn	*Muskegon, Mich.*
Wallis, Samuel Reasin	*Mitchell, S. D.*
Walsh, James Daniel	*Mauston*
Walsh, Leonard Patrick	*Superior*
Walsted, George Fitzgerald	*Milwaukee*
Waltz, Jane Bell	*Glencoe, Ill.*
Ward, Willard Carl	*Fond du Lac*
Warner, Virginia Jane	*Madison*
Wasserman, Miriam se	*Chicago, Ill.*
Weadock, Ethel Agnes	*Toledo, Ohio*
Weeks, Frank Dana	*Marion, Ohio*
Wegener, Margaret Helen	*Chicago, Ill.*
Weideman, Ruth Ethel se	*Columbus*
Weidler, Carl	*South Bend, Ind.*
Wells, Helmus Whitney	*Wauwatosa*
Wendt, Floyd August	*Lake Mills*
Werner, Richard Keith	*Eau Claire*
West, Donald Knilans	*Whitewater*
Westendarp, Marjorie Amelie	*Coldwater, Mich.*

Wheeler, Robert Murray	*Madison*
Wheelihan, Harriet	*Necedah*
Whitaker, Lucy Jane	*Madison*
White, Katherine Virginia	*Springfield, Ill.*
White, Lorna	*Lake Geneva*
Whitson, Merritt Bragdon	*Madison*
Wick, Samuel	*Marinette*
Wicks, Virginia Eileen	*Highland Park, Ill.*
Widmann, Marguerite Carolyn	*Madison*
Wieland, Harold George	*Chicago, Ill.*
Wiese, Otis Leo	*Davenport, Iowa*
Wiggin, Arthur Louis	*Plymouth*
Wild, Katherine Virginia	*Sycamore, Ill.*
Wild, Payson Sibley, Jr.	*Chicago, Ill.*
Williams, Marion Frances	*Chicago, Ill.*
Williams, Robert Emrys	*Cambria*
Williamson, Martha Louise	*Kansas City, Mo.*
Wilmarth, Jean	*Eau Claire*
Winchester, Genevieve Elizabeth	*Madison*
Wirka, Herman Wenzel	*Madison*
Witter, Jeremiah Delos	*Wisconsin Rapids*
Wolf, Katie Robertson se	*Madison*
Wolfram, Alice Lucile	*Des Plaines, Ill.*
Wollenberg, Phyllis Eleanor	*Greenwood*
Wood, Leola May	*Fond du Lac*
Wood, Viola Eunice	*Fond du Lac*
Woolard, Margaret Campbell	*Wauwatosa*
Young, Gregg Andrews	*Galva, Ill.*
Young, Mary Ann	*Edgerton*
Zaban, Bessie Ruth	*Atlanta, Ga.*
Zander, Mercedes Frances	*Two Rivers*
Zeff, Chester Meyer	*Kenosha*
Zellin, Abraham	*Portage*
Ziegler, Allen Melvin	*Moline, Ill.*
Zillman, Theodore William	*Chicago, Ill.*
Zweiger, Samuel	*New York, N. Y.*

Course In Commerce

Ackley, Louise Gunderson	*Beloit*
Alexander, James Ray	*Hayward*
Aller, Gordon	*Janesville*
Alton, Oliver Lowry	*Sayner*
Anderson, Harold Thurston	*Scandinavia*
Anfinsen, Ansel Nile	*Superior*
Arnstam, Alfred Samuel	*Milwaukee*
Baker, Doyle Dean	*Mentone, Ind.*
Beck, Lillian Marie	*Madison*
Beeman, Harold Alonzo	*Madison*
Bendler, Frederick August	*Sheboygan*

Benner, Arthur Thomas	*Fontana*
Bennett, Jacob Roderick	*Monroe*
Bentien, William Alfred	*New York, N. Y.*
Berg, Harold Harvey	*Baraboo*
Bliese, Martin August	*Prairie du Sac*
Bopf, Arnold Elmer	*Wausau*
Brader, Isaac George	*Madison*
Carter, Thomas Brandon	*Rockford, Ill.*
Chaffee, Paul Robert	*Huron, S. D.*
Christensen, Laurence Christian	*Racine*
Christensen, Walter James	*Racine*
Christoph, Mildred Burton	*Norfolk, Neb.*
Comery, George Richard	*Belvidere, Ill.*
Connell, William Basil	*Darlington*
Cook, Clement George	*Madison*
Culley, Silas Edward	*Washington, D. C.*
Curtis, Robert Alexander	*Eau Claire*
Dana, Philip Lyman	*Kewanee, Ill.*
Darrenougue, Thomas Francis	*Reedsburg*
Davies, May Aileen	*Madison*
Duehr, Leonard Joseph	*Hayward*
Duff, Joseph Henry	*Iron River, Mich.*
Edwards, Vivian Ethel	*Muskegon, Mich.*
Eggert, Erwin Henry	*Milwaukee*
Evans, Frederick Maurice	*Sparta*
Ferris, Wendell	*Wild Rose*
Frawley, Stephen John	*Eau Claire*
Funk, Edgar Wiley	*Shullsburg*
Galle, Frederick Leon	*Monroe*
Gebhardt, Philip Otto	*Black River Falls*
Gehrke, Melvin August	*Appleton*
Gill, Loretta Marian	*Madison*
Girod, Roy Oscar	*Madison*
Glass, Paul Butler	*Des Moines, Iowa*
Goldstein, Irving	*Chicago, Ill.*
Gridley, Rollin Thorburn	*Janesville*
Grubb, Robert Day	*Janesville*
Gruennert, Edwin Carl William	*Helenville*
Gunawardena, D. P. Rupasingha	*Waga, Ceylon*
Hanson, Donald Edward	*Whitehall*
Hanson,, Elmer Leslie	*Oconto*
Hanson, Llyal Merton	*Rio*
Hapgood, Lauren Benjamin	*Dallas, Tex.*
Harebo, Verle Downer	*New Lisbon*
Harris, Arthur Stanley	*Madison*
Hoffman, Duane Philip	*Black River Falls*
Hood, George Kenneth	*Spring Green*
Hoppert, Benjamin William	*Sheboygan*
Horstmeyer, Harold Frederick	*Madison*
Hotvedt, Lawrence Ingvald	*Eau Claire*

Houghton, Leonard William	*Madison*
Howard, William Burdette	*Columbus, Pa.*
Josephson, Melvin Carroll	*Cleveland, Ohio*
Kasper, Carl Albert	*Lancaster*
Kasten, Lloyd August William	*Watertown*
Kearby, Harry Sylvester	*Green Bay*
Keir, Ermon William	*Madison*
Kilby, Dallas Meredith	*Madison*
Klath,, Carl Otto	*Sioux City, Iowa*
Kleist, Edwin Henry	*Kenosha*
Kramer, Mildred Hazel	*Madison*
Kroehnke, John Walter	*Chilton*
Landschulz, Thomas William	*Dubuque, Iowa*
Larsen, Clarence John	*Clinton*
Lee, Burton Joseph	*Cashton*
Linley, Victor	*Eau Claire*
Lipman, Myer	*Antigo*
Lister, Charles Minard	*Milwaukee*
Littel, Edward George	***Madison***
Lord, Donald Stanton	*Edgerton*
Lowe, Margaret Stella	*Neillsville*
Lundberg, Ernest Wilhelm	*Superior*
Lundell, Edward Wilman	*Rockford, Ill.*
Lyke, Hiram Arthur	*Oconomowoc*
MacGregor, Floyd Coburn	*Madison*
McIntosh, Malcolm Farman	*Viroqua*
MacReynolds, Robert L.	*Madison*
Madler, Anthony Erwin	*Hilbert*
Magann, Paul Neitz	*Madison*
Magnuson, Kathryn Bernice	***Elkhart, Ind.***
Maher, Josephine Veronica	*Madison*
Malsin, Arthur Charles	*Merrill*
Marquardt, Arthur Adolph	*Hokoh, Minn.*
Maurseth, Stanley Freeman	*Madison*
Megeath, Samuel Addison, Jr.	*Yonkers, N. Y.*
Meyers, Bernard	*Norwalk*
Mohme, Fred Stephen	*Elkhart Lake*
Moran, Dora Margaret	*Avoca*
Mortensen, Elmer Hans	*S. Milwaukee*
Morton, Howard Colby	*Wauwatosa*
Murray, Lorraine Allen	*Manitowoc*
Nash, Theresa Romale	*Madison*
Nelson, Charles E.	*Clarinda, Iowa*
Nortman, Robert Frank	*Milwaukee*
Olson, Bert Otto	*Mt. Horeb*
Osbourn, Elaine	*Hollywood, Cal.*
Owen, Thomas Henry, Jr.	*Oklahoma City, Okla.*
Paetow, Clarence Albert	*Milwaukee*
Peterson, Simon Gust	*Rockford, Ill.*

Phillipp, Charles Edward	*Prairie du Chien*
Pitzner, Paul August F.	*Johnson Creek*
Powers, Thomas Lawrence	*Fargo, N. D.*
Rasmussen, Leland Earl	*Madison*
Reese, Harold Elmo	*Dodgeville*
Richardson, Howard Elmer	*Spring Green*
Rikkers, Donald Frederick	*Waupun*
Rosenthal, Henry L.	*West Allis*
Rouiller, John James	*Manitowoc*
Ryan, Gerald Edward	*Sheboygan*
Sasman, Eunice Frances	*Black Creek*
Schaefer, Irving H.	*Brillion*
Scherer, Gaylord Jackson	*Granville, Ill.*
Scheurman, Alice Emily	*Evanston, Ill.*
Schlick, Hugo Arthur	*Milwaukee*
Schloegel, Henry Anthony	*Milwaukee*
Schneider, John Henry	*Winneconne*
Schuck, Harry Michael	*Slinger*
Schuette, Herman Charles	*Sheboygan*
Schulz, Robert Leland	*Plymouth*
Scull, Walter Edwin	*Lake Geneva*
Seemann, William R. F.	*Janesville*
Seim, Edward Henry	*Wausau*
Sennett, Raymond Francis	*Madison*
Shane, De Alton Raiffe	*Eau Claire*
Shirey, Donald Clifford	*Madison*
Shufelt, Velva Hutchinson	*Madison*
Stephens, Norval Blair	*Chicago, Ill.*
Stephenson, Clarence James	*Madison*
Stern, Emanuel Harold	*Tomahawk*
Sutherland, Edmond Robbins	*Madison*
Taylor, William Jackson	*Wausau*
Thannum, William Albert	*Hayward*
Thomas, Ruth Marion	*Milwaukee*
Thomsen, Herbert Henry	*Red Oak, Iowa*
Tollack, Hugh Livingstone	*Black River Falls*
Upham, Cecil Rinaldo	*West Salem*
Vaughan, Donald Allen	*Ladysmith*
Vogel, Sam Charles	*Milwaukee*
Washbush, Arnold Anthony	*Fond du Lac*
Weber, Othmar Arthur	*Milwaukee*
Wenniger, Elmer John	*Algoma*
Wernick, Bernard Carl	*Morrisonville*
White, Alden Wesley	*Madison*
Wien, Maurice	*Burlington*
Wright, Harold Emerson	*Lancaster*
Zeischold, Wilbur Elwood	*Manitowoc*
Zink, Raymond Louis	*East Aurora, N. Y.*

Course in Journalism.

Anderson, Nancy Elizabeth	*Pittsburgh, Pa.*
Baker, Maurice Jacobs	*East Lansing, Mich.*
Batchelder, Emma Maude	*La Crosse*
Beatty, Robert Morgan	*Davenport, Iowa*
Bjerke, Jerome Oliver	*Stoughton*
Bookhout, Russell Frank	*Madison*
Bown, Cleora Rea	*East Aurora, N. Y.*
Bozarth, Marian Marjorie	*Madison*
Byrns, Ruth Catherine	*Madison*
Carmichael, John Peter	*Prairie du Chien*
Chamberlin, Margaret Sinclair	*Grand Rapids, Mich.*
Cheney, Clayton	*Milwaukee*
Clearman, Louise Harriette	*Miles City, Mont.*
Colony, Alice Louise	*Janesville*
Cook, Kenneth Earl	*Madison*
Danner, Dora Marie	*Cambridge City, Ind.*
De Vries, Benjamin Fred	*Des Moines, Iowa*
Dewey, Ella Arnold	*Arcadia*
Doudna, William Lester	*Madison*
Drews, Alice Marion	*Chicago, Ill.*
Dunn, Vivian Roger	*River Forest, Ill.*
Ellingson, Elizabeth	*Madison*
Engelking, William	*Evanston, Ill.*
Frank, Lorraine Mary	*Hartford*
Freeman, June Rosemary	*Bicknell, Ind.*
Frudenfeld, Mildred Lee	*Seattle, Wash.*
Fulton, David Julian	*Portland, Ore.*
Garstman, Mary Helene	*Springfield, Ill.*
Gladfelter, Lloyd Daniel	*York, Pa.*
Grant, Alicia Stuart	*Chicago, Ill.*
Gravenor, Pauline	*Albany*
Grimsrud, Alton Tacitus	*Viroqua*
Hardon, Virgil Orvin	*Gainsville, Ga.*
Hedler, Sadie Bradford	*S. Minneapolis, Minn.*
Hendry, Chester Scoville	*Madison*
Hull, Harry Chester	*Dayton, Ohio*
Hull, Janet Fletcher	*Madison*
Jansky, Nelson Moreau	*Madison*
Johnson, Dorothy Margaret	*Milwaukee*
Kirk, Lucile Margaret	*Falls City, Neb.*
Krause, Ruth Wilma	*Manitowoc*
Krebs, Edward Christian	*Sparta*
Krieghbaum, Hiram Hillier	*South Bend, Ind.*
Lee, Olaf Christopher	*Stoughton*
Lewin, Robert Milton	*Berlin*
Lewis, Gorden DeWitt	*Madison*
McAlpin, Harry Sylvester	*St. Louis, Mo.*
McCausland, Janet	*Madison*

McCausland, John Mitchell	*Pittsburgh, Pa.*
McClun, Mary Ethel se	*Chicago, Ill.*
McCormick, Henry James	*Madison*
Martin, Ruth Dickey	*Sac City, Iowa*
May, Walter Alfred, Jr.	*Pittsburgh, Pa.*
Meyer, Florence Louise	*Hartford*
Miller, Edith Sara	*San Juan, Porto Rico*
Monfried, Walter	*Madison*
Moore, Hugh J.	*Stockton, Ill.*
Netzow, Myrtle Barbara	*Milwaukee*
Ninman, Max Ferber	*Reedsburg*
Olson, Judith McVenn	*Madison*
Patch, Margaret Douglas	*Oak Park, Ill.*
Pomeroy, Earl Neale	*Wausau*
Reindel, Dorothy Ruth	*Detroit, Mich.*
Riddle, Arthur Wilson	*Grand Rapids, Mich.*
Roess, Margaret Louise	*Oil City, Pa.*
Schanck, Isabel Anna	*Chicago, Ill.*
Shreve, Esther Marella	*Shawano*
Sobey, Edward John	*Dodgeville*
Stevens, Ruth H.	*Waterloo, Iowa*
Stone, Helen	*Deer Lodge, Mont.*
Sullivan, Claude Vincent	*Genoa, N. Y.*
Thompson, Josephine D'Urbec	*Atlanta, Ga.*
Thompson, Martha Sherwin	*La Grange, Ill.*
Timmons, Ralph Dennis	*Monroe*
Trupke, Clarence Elmer	*Milwaukee*
Waldron, Evelyn Rose	*Madison*
Weiss, Miriam	*Memphis, Tenn.*
Wernecke, Orin Stanley	*Manitowoc*
Wetzel, Arthur Alfred	*Milwaukee*
White, Curtis Grunow	*Madison*
Wood, Humphreys Farmer	*Buffalo, N. Y.*

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Course in Humanities

Barney, Clara Alvin	*Prairie du Chien*
Bentler, Maysie Sophia	*Chicago, Ill.*
Bodden, Annabel Elizabeth	*Menasha*
Droppers, Genevieve Frances	*Milwaukee*
Hall, Lucy Landon	*Selma, Ala.*
Haven, Mary Elizabeth	*Hudson*
Kletzsch, Katherine Dorothy	*Milwaukee*
Luedke, Lenore Louise	*Milwaukee*
McNaught, Helen Louise	*Janesville*
Powell, John Walker	*Milwaukee*
Rowe, Helen Mary	*Grand Rapids, Mich.*
Shattuck, Lucile May	*Madison*
Smith, Pauline Miriam	*Early, Iowa*

Steil, Leona Bertha C.	*Milwaukee*
Taintor, Walter Stockton, Jr.	*Oak Park, Ill.*
Toms, Ada Caroline	*Richland Center*
Williams, Helen May	*Delavan*

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Course for Normal School Graduates

Durkee, Margaret Mead	*Madison*
Egerer, Alma Louisa	*Pasadena, Cal.*
Jackson, Ruth Hannah	*Columbus, N. J.*
Lowth, Helen Frances	*Columbus*
Schiller, Mildred Katherine	*Neillsville*

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General Course (Bachelor of Philosophy)

Andrus, Elwin Arthur	*De Soto*
Bean, Harold Frederick	*Troy Center*
Brennecke, John Alexander	*Aurora, Ill.*
Brown, Fred Eugene	*Arena*
Bunker, George Tracy, Jr.	*La Grange, Ill.*
Burke, John Stuart	*Marinette*
Camlin, Theodore Edmund	*Rockford, Ill.*
Chapman, Landon Lincoln	*River Falls*
Coumbe, Lottie Luetta	*Richland Center*
Dean, Donald Clay	*La Crosse*
Drew, Ben Harlow	*Chicago, Ill.*
Duffy, Charles Jerome	*Dubuque, Iowa*
Elkinton, Anne Dora	*Eleva*
Gassmann, Walter Charles	*Lena, Ill.*
Gesell, Harvey Henry	*Two Rivers*
Gibson, James King	*Wisconsin Rapids*
Hamlin, Edmund Tarr	*Merrill*
Herst, Florence	*Chicago, Ill.*
Heyl, Chris Lee	*Antigo*
Higgins, William Jerome	*Waterloo*
Joyce, Gordon Francis	*Chilton*
Kilmer, Alonzo Eugene	*Fargo, N. D.*
Klosterman, Elsie Catherine	*Irvington, Ill.*
Knutson, Clarence Ernest	*Antigo*
Langevin, Marjorie Vitaline	*Superior*
Limberg, Wayne	*Plymouth*
McCorkle, William Smith	*Richland Center*
McDougal, Donald	*Riverside, Ill.*
McLean, George Russell	*Duluth, Minn.*
Mabie, Rollin Robert	*Fond du Lac*
Mahoney, Joseph Edward	*Elkhorn*
Mason, Joseph Bigsby	*Niagara*
Miller, Frank Roy	*Madison*
Moore, Robert Humphrey	*Madison*

Odell, Laurence Henry	*Delavan*
Onstad, Everett, Charles	*Cambridge*
Page, Marius Curt	*Baraboo*
Sherwood, Marguerite Smith	*Chicago, Ill.*
Skalitzky, David Albert	*Waterloo*
Skinner, Allan Edwin, Jr.	*Madison*
Teasdale, Howard Henry	*Sparta*
Telford, Marion La Verne	*Madison*
Vallee, James Lester	*Milwaukee*
Walker, Clarence Sidney	*Columbus*
Weinberg, Harry Abe	*Ft. Atkinson*
Willey, Roland Henry	*Baraboo*
Wineman, Freda Belle	*Flint, Mich.*
Wolf, Leslie Fred	*Hillsboro*

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Course in Chemistry

Baillie, Edward Peter	*Madison*
Downey, Eugene Michael	*Waukesha*
Fieting, William Earle	*Tomah*
Frank, Arthur Reginald	*Oshkosh*
Gaenslen, Carl Eugene	*Milwaukee*
Gaudynski, Edward Joseph	*Milwaukee*
Hale, John Torval	*Kaukauna*
Hindes, Laurence William	*Ableman*
Hlavka, Harold James	*Chicago, Ill.*
Kernan, Harold Henry	*Madison*
King, Harriet Augusta	*Madison*
Kline, Homer Virgil	*Sturtevant*
Lawrence, Harold Arthur	*Rockford, Ill.*
Marquardt, Ralph Robert	*Sauk City*
Marz, Charles John	*Oconomowoc*
Nash, Thomas	*Wisconsin Rapids*
Potratz, Lewis	*Prairie du Chien*
Reinke, Oscar Alfred	*Aniwa*
von Rohr, Eugene Philip	*Milwaukee*
Skogstrom, Jalmar Axel	*Madison*
Toenhart, Otto Eric	*Milwaukee*
Van Wyk, Frank Jacob	*Appleton*

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Chemistry–Commerce Course

Arnold, Ralph Clifton	*Madison*
Bosshard, Alfred	*La Crosse*
Finnel, Albert George	*Marinette*
Hall, Sidney Storrs	*Milwaukee*
Houdek, George Charles	*Phillips*
Van Winter, Carl Buel	*Madison*

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Course in Physical Education

(School of Education)

Augustin, Blanche Louise	*Bloomington, Ill.*
Blackmore, Florence Carter	*Tulsa, Okla.*
Boys, Edith Alice	*Plymouth, Ind.*
Bradbury, Dorothy Edith	*Onawa, Iowa*
Burt, Madge S.	*Carthage, Mo.*
Carlquist, Signe Josephine	*Williams Bay*
Clark, Catherine	*Wisconsin Rapids*
D'Ardell, Verdi Dorothea	*Memphis, Tenn.*
Druck, Felicia Ariana	*St. Paul, Minn.*
Evans, Gladys Lucile	*Trenton, Mo.*
Goodlad, John Roy	*Madison*
Goodspeed, Ruth Allen	*Kalamazoo, Mich.*
Gorman, Harriet	*Newaygo, Mich.*
Graham, Harriet Kingston	*Grand Rapids, Mich.*
Gray, Mildred Isabel	*Flandreau, S. D.*
Guenther, Hilda Frieda	*Port Washington*
Heivilin, Hortense	*Madison*
Hibbs, Muriel Alice	*Chicago, Ill.*
Hicks, Earl Vincent	*Sheboygan*
Hoover, Margaret Luella	*Sterling, Ill.*
Keys, Donnabel McKennan	*Lincoln, Ill.*
Liggett, Harriet Josephine	*Canton, Ohio*
McKnight, Jean Elizabeth	*Hastings, Mich.*
Many, Sidonie Elizabeth	*Chicago, Ill.*
Maytum, Lorraine Maxine	*Alexandria, S. D.*
Mygdal, Elna	*Chicago, Ill.*
Noth, Orin Kenneth	*Tomah*
Osman, Mildred	*Omaha, Neb.*
Pease, Fidelia Carolyn	*Richland Center*
Ping, Raymond Cecil	*Indianapolis, Ind.*
Richardson, Beatrice Elwell	*Detroit, Mich.*
Rohrer, Helen Molly	*Eveleth, Minn.*
Rosenberg, Esther	*Detroit, Mich.*
Ryan, Frances Anne	*Renssalaer, Ind.*
Shepard, Mary Elizabeth	*Kansas City, Mo.*
Sykora, Jerry George	*Batavia, Ill.*
Tausche, Mary Louise	*La Crosse*
Ullman, Doris	*Elmhurst, Ill.*
Ulry, Margaret Nola	*Tilden, Neb.*
Walker, Esther Mae	*Springfield, Ill.*
Wilson, Marion Frances	*Chippewa Falls*
Wohlford, Mildred Bessie	*Omaha, Neb.*

Course in Applied Arts

(School of Education)

Anderson, Marea	*De Kalb, Ill.*
Ballard, Kathleen M.	*Bay City, Mich.*
Bonniwell, Evelyn Ruth	*Hartford*
Eimon, Edna Gwen	*Superior*
Finstad, Elizabeth	*Superior*
Flatman, Anita Margaret	*Madison*
Harriman, Dorothy Seville	*Glenwood City*
Heise, Elsie Emma	*Madison*
Helland, Mabel Claire	*Madison*
Jocelyn, Josephine Pearsall	*Elgin, Ill.*
Lathers, Frank Riley	*Beloit*
Lentz, Madeline Margaret	*Wauwatosa*
Marks, Beatrice Leonora	*Milwaukee*
Melaas, Thelma Maleda	*Madison*
Moncar-Sellen, Iris Edith	*Madison*
Mueller, Dorothy Isabella	*Princeton*
Sale, Inga S.	*Madison*
Schmidt, Evelyn Louise	*Wauwatosa*
Smith, Marjorie Rosalind	*Oshkosh*
Stentz, Geraldine Florence	*Seattle, Wash.*
Stone, Vera Mabell	*Nisswa, Minn.*
Worden, Ruth Chloris	*Chicago, Ill.*

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Course in Industrial Education

(School of Education)

Dunham, Rex James	*Madison*
French, Henry Clinton	*Galesville*
Krebs, Lester John	*Chicago Heights, Ill.*
McCabe, Julian Francis	*Elburn, Ill.*
McElroy, Floyd Bernard	*Oklahoma City, Okla.*
Schmiedicke, Paul Henry	*Manitowoc*
Trapp, John Carson	*La Farge*

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Freshmen

Aaron, Irvin Isadore	*Brooklyn, N. Y.*
Aarons, Harriet Brondell	*Milwaukee*
Abbott, Dorothy	*Denver, Col.*
Abramson, Martha	*Chippewa Falls*
Ackerman, Violet Eleanor	*South Bend, Ind.*
Adams, Elisabeth Cooley	*Springfield, Mass.*
Adams, Raymond Carl	*Wauwatosa*
Ahrnsbrak, Henry C., Jr.	*Plymouth*
Albrecht, Gilmon Fredrick	*Madison*

Alexander, Andrew Hugh	*Milwaukee*
Alexander, Donald Kerstetter	*Wheaton, Ill.*
Allen, James Edward	*Webster Groves, Mo.*
Allen, Mary Winifred	*Madison*
Allfree, Harriett	*Newton, Iowa*
Alquisa, Clement Unciano	*Philippine Islands*
Anderson, Charles B., Jr.	*Lake Hamilton, Fla.*
Anderson, Jerrold Otto	*Viroqua*
Anderson, Miriam	*Milwaukee*
Anderson, Orvin Alexander	*Eau Claire*
Anderson, Walter Lester	*Kenosha*
Anderson, William Henry	*Marinette*
Andrews, Charles Francis	*Rockford, Ill.*
Andrews, Leslie H.	*South Wayne*
Annis, Margery Patricia	*Council Bluffs, Iowa*
Ansfield, David Joseph	*Milwaukee*
Antes, William Bowes	*Evansville*
Asmann, Edwin Weltnor	*Chicago, Ill.*
Assovsky, Anne Rachel	*Milwaukee*
Astrom, Dorrit Elisabeth	*Ft. Wayne, Ind.*
Atkinson, Dorothy Gael	*Madison*
Aune, Harold John	*Rice Lake*
Austin, Paul Rolland	*Madison*
Bachhuber, Francis Gregory	*Appleton*
Bachhuber, Hugo Max	*Mayville*
Bachhuber, Roman	*Medford*
Baechler, Myron E.	*Mayville*
Baer, Arthur Irving	*Glascow, Mont.*
Bahcall, Rose	*Chicago, Ill.*
Bailey, Edgar Eugene	*Janesville*
Bailey, Thomas Leland	*Richland Center*
Baker, Antoinette Helen	*Portage*
Baker, Byron Howard	*Oconomowoc*
Baker, Garold	*Rewey*
Baldwin, Helen Ruth	*Waukesha*
Baldwin, Jane Helen Cameron	*La Crosse*
Ball, Barbara	*Oak Park, Ill.*
Ball, Elizabeth	*Oak Park, Ill.*
Bancroft, George Russell	*Blue Mounds*
Banks, Marjorie Audrey	*Jefferson*
Barbee, Louise Mary	*Chicago, Ill.*
Barden, Frank William	*Wausau*
Barlow, Verena Martha	*Monroe*
Barnes, Fulton Campbell	*Cedar Falls, Iowa*
Barnes, Kenneth Crawford	*Stevens Point*
Barney, Lawrence Davis	*Kilbourn*
Barofsky, Clarence Arthur	*Marinette*
Barr, John Wright	*Lake Geneva*
Barrett, Grace Mae	*Crystal Lake, Ill.*
Bartholomew, William Erle	*Madison*

Barto, Clarence E.	*Madison*
Barton, Harold Edward	*Madison*
Barton, Viola Bell	*Madison*
Bartosch, Rita Theresa	*Sauk City*
Bauer, Helen Rose	*Kilbourn*
Baumgartner, Maxine Alice	*Monroe*
Bayne, Charlotte Elizabeth	*New York, N. Y.*
Beach, Laurence Ronald	*Madison*
Bean, Robert Anderson	*Milwaukee*
Beardmore, Malcolm Chandler	*Oshkosh*
Beatty, Harry Parke	*Birmingham, Ala.*
Beck, Elmer George	*Racine*
Becker, Hildegarde Kathryn	*Two Rivers*
Beckham, Autrey Dow	*Madison*
Beebe, Dewitt Clinton	*Sparta*
Beebe, Frances Blakeslee	*Sparta*
Beffel, Eulalie	*Milwaukee*
Beggs, Keith Roseberry	*St. Croix Falls*
Bemis, Mildred Helene	*Antigo*
Bender, Boris Isadore	*Moscow, Russia*
Benedict, Leonard Edwin	*Madison*
Benesch, Ruth Thresa	*Milwaukee*
Beniger, Alois Max	*Sheboygan*
Bennett, Claude Leon	*Janesville*
Bennett, Dorice	*Madison*
Bennison, John Lawrence	*Janesville*
Benton, William Theodore	*Sparta*
Bergstresser, Richard Frederick	*Springfield, Ill.*
Berman, Fred Albert	*Milwaukee*
Berner, Artemas Frederick	*Antigo*
Bernhard, William George	*Milwaukee*
Berto, Helen Maud	*Watertown*
Beyer, Gertrude Margaret	*Madison*
Bier, John Henry	*Madison*
Bierbach, Beulah Bell	*Wickliffe, Ohio*
Biggar, Marjory Murray	*Oak Park, Ill.*
Biggert, Katherine	*Evanston, Ill.*
Bilstad, Nellie May	*Cambridge*
Bird, Roberta Gertrude	*Milwaukee*
Birk, Margaret Helen	*Chicago, Ill.*
Bisno, Daniel	*Kenosha*
Bissell, Walter Henry	*Wausau*
Blanchard, Elinor Jean	*Antigo*
Block, Herman Bernhardt	*Oshkosh*
Bloom, Beth	*Racine*
Bogue, Beatrice	*Poynette*
Boll, Reva Alice	*Rice Lake*
Boll, Ruth Edna	*Rice Lake*
Bolton, Dorothy Ruth	*Janesville*

Bonini, Robert Emil	*Appleton*
Boos, Francis Henry	*Janesville*
Borchert, Pearl Augusta	*Madison*
Borman, Harriet	*Blue Island, Ill.*
Boruszak, Florence Janice	*Milwaukee*
Bosch, Henry Charles	*Chicago, Ill.*
Botham, Grace Winona	*Madison*
Boudry, Marshall Ovid	*Fond du Lac*
Bower, William Joseph, Jr.	*Cleveland, Ohio*
Bowler, Harold Edward	*Sheboygan*
Bradle, Leonard Paul	*Laona*
Bradle, William Peter	*Laona*
Bradshaw, Max	*Compton, Ill.*
Brager, Anna Dorothy	*Mt. Horeb*
Branch, Willis Carl	*Prentice*
Brandt, Frederick William	*Watertown*
Brayton, Dick Knox	*Madison*
Breitenbach, Casper Hank	*Madison*
Breitenbach, Florence Louise	*Madison*
Bretienbach, Judith Irene	*Detroit, Mich.*
Brenner, Ralph Judson	*Valparaiso, Ind.*
Brewer, Constance Bernice	*Argyle*
Brickner, Pauline Helen	*Sheboygan Falls*
Britton, Donald Medhurst	*Madison*
Broady, Florence	*Quincy, Ill.*
Brooks, Henry Luesing	*Louisville, Ky.*
Brown, Alice Luce	*St. Louis, Mo.*
Brunkow, Bernard William	*Monroe*
Buelow, Laura Veronica	*Waupun*
Buerki, Fredrick Algo	*Madison*
Buhlig, Blanche Louise	*Chicago, Ill.*
Bullock, Helen Edna	*Madison*
Bump, Millard	*Madison*
Bump, Virginia	*Madison*
Bundy, William Henry	*Menomonie*
Burdick, Hugh Lewis	*Lake Geneva*
Burke, John Franklyn	*Wautoma*
Burkhardt, Boyd Alonzo	*Tipton, Ind.*
Burrus, Jefferson De Ment, Jr.	*Stoughton*
Busby, George Chandler	*Milwaukee*
Butler, Florence Charlotte	*Wauwatosa*
Butler, Jean Winifred	*Ishpeming, Mich.*
Butler, Walter Rawson	*Miles City, Mont.*
Butterfield, Alice Belle	*Nashotah*
Butterfield, Hester Elizabeth	*Grand Rapids, Mich.*
Cahoon, Dyrrell Louise	*Baraboo*
Cairns, Catherine Virginia	*Cleveland, Ohio*
Caldwell, Esther	*St. Croix Falls*
Caldwell, John Gordon	*Lodi*

Calvert, Elizabeth Reubena	*Madison*
Cameron, Gladys Muriel	*Riverside, Ill.*
Cameron, Walter Ira	*Shell Lake*
Camp, Dorothy Mae	*Wilmette, Ill.*
Campbell, Dorothy Almeda	*Dodgeville*
Campbell, Marie Eilien	*Dodgeville*
Campbell, William George	*Delavan Lake*
Cant, Harry Russell	*Westfield*
Carney, Robert Forrest	*Milwaukee*
Carroll, Harvard James	*Racine*
Carver, Margaret Nellie	*Omro*
Casely, William Edward	*Almond*
Casey, James Donovan	*Marengo, Ill.*
Cavanaugh, Blanche Patricia	*Paw Paw, Mich.*
Cavanaugh, John Stephen	*Madison*
Cawley, Forrest Michael	*Wausau*
Chalfant, Ruth Jean	*Baltimore, Md.*
Chamberlain, Eleanor Staffeld	*Wisconsin Rapids*
Chambers, Vivian	*Hinsdale, Ill.*
Chandler, Elizabeth	*Sheboygan*
Chapin, Carol Anona	*Iola*
Christensen, Althea Marion	*Rubicon, Ashippun*
Church, Richard Cassius	*Belvidere, Ill.*
Churchill, Charlotte Harris	*Monroe*
Clark, Bernard Stearns	*Lead, S. D.*
Clark, Catherine Louise	*Chicago, Ill.*
Clark, Georgia Clarissa	*Hot Springs, S. D.*
Clark, James Wilson	*Tomahawk*
Clark, Theodore Roosevelt	*Chicago, Ill.*
Clarke, Harry Donald	*Madison*
Clasman, John William	*Milwaukee*
Clendenen, Irving Hand	*River Forest, Ill.*
Cleveland, John Marshall	*Madison*
Cleveland, Wesley Raymond	*Madison*
Close, Edna Lillian	*Chippewa Falls*
Cmeyla, John	*Kewaunee*
Coan, Elmer A.	*Escanaba, Mich.*
Coe, Jesse Akers	*Iron River, Mich.*
Coffman, Jerome Effingham	*Madison*
Cohen, Meyer Milton	*Green Bay*
Cole, Ruth Sarah	*Norwalk, Ohio*
Compton, Josephine Lathrop	*St. Louis, Mo.*
Conine, Hugh, Jr.	*Nowata, Okla.*
Considine, Lois Clare	*Duluth, Minn.*
Conway, James Paul	*Wisconsin Rapids*
Coombs, Walter Wilder	*Madison*
Corbett, Muriel Grace	*Milwaukee*
Corl, Josephine	*Grand Rapids, Mich.*
Corp, Ruth Elizabeth	*Madison*

Cory, John Aumock	*Brielle, N. J.*
Cousins, Annabell Marr	*Hinsdale, Ill.*
Cousins, Isabell Hailstones	*Hinsdale, Ill.*
Crane, Dorothy Marcia	*Adams*
Cranefield, Laura Edyth	*Madison*
Crawford, Frances Ione	*Racine*
Crebbin, Elizabeth May	*Stoughton*
Cross, Margaret	*Wauwatosa*
Crowley, Joan Miriam	*Brookline, Mass.*
Crowley, Regina Catherine	*Madison*
Crowley, Sylvester Daniel	*Madison*
Crownhart, Charles Henry, Jr.	*Madison*
Culbertson, John W.	*Madison*
Cunningham, Marion Eleanor	*Hammond, Ind.*
Curran, Catherine Patricia	*Indianapolis, Ind.*
Curtis, Douglas John Edward	*Eau Claire*
Dahle, Hope Magdalene	*Mt. Horeb*
Dalbey, Ralph Jackson	*Des Moines, Iowa*
Dale, Frederick B.	*Madison*
Darling, Sylvester John	*Milwaukee*
Daugs, Lester Gustav	*Ft. Atkinson*
Davis, Helen Maria	*Cape Cod, Mass.*
Davis, Helene Kincaid	*Paris, Ky.*
Davis, Lawrence Chester	*Richland Center*
Davis, Phillip Henry	*Plymouth*
Davis, Wilmer Wesley	*Racine*
Dean, Joseph Charles	*Madison*
Decker, Charles Rutherford, Jr.	*Milwaukee*
Decker, Mildred Lorraine	*Boscobel*
Dedrick, Martha Louise	*Manitowoc*
Dennis, George Reeder	*Cedar Rapids, Iowa*
Denu, Philip Edwin	*Bemidji, Minn.*
Derzavitz, Matthew	*Milwaukee*
Desmond, Marion Elizabeth	*Milwaukee*
Dewey, Louis William	*Middleton*
Dewey, Lynette May	*Lake Mills*
Dewey, Parker Francis	*Mukwonago*
Dibble, Josephine Anna	*Chicago, Ill.*
Dietrich, George Jacob	*Racine*
Dietrich, Josephine Colby	*Racine*
Ditt, Charlotte Hosler	*Oak Park, Ill.*
Dizon, Jess Oran	*Madison*
Dollard, James Edward	*Madison*
Donham, Roberta Elizabeth	*Chicago, Ill.*
Doolittle, Mrs. Alma Helena	*Madison*
Dorsey, Madeline Mary	*Wilmington, Ill.*
Douglas, Glenn Richard	*Winter*
Dow, Arline	*East Lansing, Mich.*
Doyle, Omer Nichols	*Highland*

Doyon, Dorothy Mae	*Madison*
Driessen, Sherburn Moore	*Marion*
Drissen, Edward Michael	*Port Washington*
Dryden, Eastman	*Evanston, Ill.*
Dunlap, Harriet	*Dallas, Tex.*
Dunmire, Elizabeth Jamieson	*Greensburg, Pa.*
Dunning, LeRoy Clayton	*Danville, Ill.*
Dusansky, Lee Phil	*Madison*
Early, William Leigh	*Sioux Falls, S. D.*
Edwards, Elizabeth Mayo	*Madison*
Edwards, Oscar Mathew	*Lancaster*
Ehrlinger, Jane	*Park Ridge, Ill.*
Eisele, Emmett George	*Madison*
Elkins, Oscar Melville	*Racine*
Elliott, Chester Adelbert	*La Salle, Ill.*
Ellis, Ray Lowther	*Omro*
Ellis, Robert Martin	*Evanston, Ill.*
Ely, Stephen Lee	*Davenport, Iowa*
Emmert, Leon Valera	*Chicago, Ill.*
Engel, Elmer Henry	*Manitowoc*
Ennor, Tirza Blight	*Madison*
Epstein, Ely	*Milwaukee*
Esch, Catherine Matilda	*Madison*
Eschmeyer, Norbert William	*Norwood, Ohio*
Esser, Adele Katherine	*Janesville*
Eulberg, John Joseph	*Portage*
Evans, Doris Jane	*Markesan*
Everson, Katherine May	*Lake Mills*
Exley, Mark Morris, Jr.	*Menasha*
Farrell, Mary Kay	*Chicago, Ill.*
Farrell, Virginia Marilynn	*Elizabeth, Ill.*
Faust, Paul Holman	*Evanston, Ill.*
Fearer, Henry Lawson	*Madison*
Federer, Jacob Frank	*Sheboygan*
Feinsilber, Max Milton	*Milwaukee*
Feistl, Isabel Emma	*Milwaukee*
Fenton, Harry Edward	*Marshfield*
Ferguson, Clarence Walter, Jr.	*Troy, N. Y.*
Fernholz, Fern Gladys	*Jefferson*
Fernholz, Sylvia Maria	*Jefferson*
Fleishauer, Galen Jean	*Arkansaw*
Follette, Collins William	*Green Bay*
Ford, Kieth Karl	*Barnum*
Forge, Clarence John	*Burlington*
Forkin, Edward William	*Menasha*
Fornecker, Lawrence Frederick	*Beloit*
Fossum, Evelyn Marie	*Cambridge*
Fox, Neil Ashton	*Plymouth*
Fouts, Nancy Ruth	*Lake Forest, Madison*

Fowler, Frank Herman	*Chicago, Ill.*
Fowler, John Vanus	*Chicago, Ill.*
Fowler, Ruth Edna	*Milwaukee*
Fox, Abbott McCartney	*Iron Mountain, Mich.*
Fox, George William	*Madison*
Fox, Meyer Simon	*Milwaukee*
Francis, Neil Greer	*Greenwood*
Franseen, Rosella Anna	*Frederic*
Franta, Waldemar	*New Ulm, Minn.*
Frautschi, Lowell Emil	*Madison*
Frazer, Margaret Brunen	*La Grange, Ill.*
Freriks, Bertha	*Waupun*
Freytag, Elmer Walter	*Chicago, Ill.*
Friedman, Louis Dave	*Peoria, Ill.*
Friske, Oscar Walter	*Sparta*
Fuessle, Dorothy Grace	*Chicago, Ill.*
Gaarder, Kenneth Timothy	*Holmen*
Gallagher, Charles, Jr.	*Superior*
Gamble, William Wallace, Jr.	*Wausau*
Gaspariau, Arshavir Susung	*Tabris, Persia*
Gaston, Jane	*Madison*
Gaulke, Norma Carolyn	*Stoughton*
Gehrand, Henry Christopher	*Madison*
Gelbspan, Florence Rose	*Chicago, Ill.*
George, Elizabeth Marcia	*Aurora, Ill.*
George, Ruth Abigail	*Clinton, Iowa*
Geschmay, Caroline Dorothy	*Hot Springs*
Gess, Lora Elizabeth	*Sheboygan*
Getschman, Chester Edward	*Kenosha*
Gettle, Ted Lewis	*Madison*
Gibbs, Harold Joseph	*Iron River, Mich.*
Gibson, Walter Messer	*Akron, Ohio*
Gilbert, Mrs. Bessie	*Madison*
Gilkison, Charles Perry	*Racine*
Gillen, John Alton	*Hudson*
Gillin, John Philip	*Madison*
Gilmore, Elysbeth Bassye	*Manila, P. I.*
Gimski, Francis Joseph	*Hurley*
Gittings, John Halbert	*Madison*
Glasier, Marshall Willis	*Madison*
Glass, Charles Robert	*Milwaukee*
Godfrey, Kneeland Allen	*Waukesha*
Goff, William Edward	*Sheboygan*
Goggin, Ronald James	*Baraboo*
Gold, Hyman P.	*Milwaukee*
Goldin, Sarah	*Madison*
Goldstein, Julius	*Kenosha*
Gonser, Helen Rebecca	*Payne, Ohio*
Goodearle, Alyce May	*Madison*

Goodnow, Jean Elizabeth	*Lansing, Mich.*
Gordon, Edgar Stillwell	*Madison*
Gore, Elizabeth Alexander	*Sheffield, Ill.*
Gore, Frances Elizabeth	*Madison*
Goshkin, Ida	*LaFayette, Ind.*
Goss, William Thomas	*Chicago, Ill.*
Gottfredsen, Ersty Rasmus	*Kenosha*
Gower, Vera Blondene	*Merrillan*
Grabandt, Monona Mae	*Verona*
Graf, Grace Dorothy	*Mukwonago*
Graham, Gertrude Lucinda	*Tomah*
Graham, Helen Margaret	*Omaha, Neb.*
Granert, Ruth Margaret	*Coal City, Ill.*
Gray, Floyd John	*Springfield, Ill.*
Green, Chaester Floyd	*Hixton*
Green, Dorothy Elizabeth	*Hixton*
Green, Jameson Burdette	*Evansville*
Green, Margaret Mary	*Evansville*
Gregerson, Louis Bryant	*Stoughton*
Griffin, Amelia Anne	*Hudson Falls, N. Y.*
Griffith, William Paul	*Oconomowoc*
Grigsby, Claude Thomas	*Chicago, Ill.*
Grimm, Roscoe	*Jefferson*
Grimstad, Alice	*Blue Mounds*
Groh, Edwin George	*Withee*
Gros, Alice Adele	*Riverside, Ill.*
Guild, Main Austin	*Kansas City, Mo.*
Gullord, Olava Helene	*Madison*
Gumbreck, Laurence	*Madison*
Gunderson, Lester Raymond	*Chicago, Ill.*
Gunn, Evelyn Mary	*Madison*
Gunnison, Ivor Edmund	*Madison*
Gurler, Mary Elizabeth	*De Kalb, Ill.*
Gurley, Amos, Jr.	*Purdy, Mo.*
Guttenstein, Sidney Max	*Milwaukee*
Haack, Helen Miriam	*Wilmette, Ill.*
Haase, Lisette Helen	*Milwaukee*
Haberman, Gertrude Blanche	*Madison*
Hacker, Martin John	*Lynden Station*
Hadley, Suzanne Elizabeth	*Tulsa, Okla*
Hagan, Virginia	*Madison*
Hahn, Miriam Elizabeth	*Reedsburg*
Hahn, Walter Seymour	*Delafield*
Halfmann, Harold Frederick	*Watertown*
Hall, Margaret Elizabeth	*Wauwatosa*
Halliday, Madge Ione	*Madison*
Hamacher, Peter Anthony	*Madison*
Hamilton, Marian Jeannette	*Chicago, Ill.*
Hamre, Cressie Welton	*Wautoma*

Hansen, Harold Edwin	*Green Bay*
Hanzlik, Freda Evelyn	*Cazenovia*
Harkness, Edward Malcolm	*Chicago, Ill.*
Harmount, Mary Elizabeth	*Chillicothe, Ohio*
Haroldson, Alice Ruth	*Davis, Ill.*
Harper, Ruth Wells	*Madison*
Harris, John Joseph	*Cuba City*
Harrison, James Ru Ton	*Goshen, Ind.*
Hart, Grace Louise	*Elroy*
Hart, Vida	*Freeport, Ill.*
Hartman, Ruth Elizabeth	*Pueblo, Col.*
Hartwig, Ned Elmer	*Orangeville, Ill.*
Hatch, Isabella Jane	*Sun Prairie*
Hatfield, Leslie William	*Madison*
Hausman, Theodore Lawrence	*West Bend*
Hart, John Dwight	*Madison*
Hawley, Emerson Elliott	*Beaver Dam*
Hay, Jean Elizabeth	*Hancock, Mich.*
Hayward, Ruth Hobart	*Kewanee, Ill.*
Heberlein, Enid Anne	*Madison*
Heberlein, Hope	*Madison*
Heiden, Lou Otho	*Madison*
Heidt, Lawrence Joseph	*Portage*
Heins, Helene Marie	*Tigerton*
Helmus, Dorothy Josephine	*Madison*
Henker, Helen Anne	*Dubuque, Iowa*
Herian, Genevieve Joyce	*Neillsville*
Hermann, Ernna Augusta	*Middleton*
Herrmann, Henry Richard, Jr.	*Lansing, Mich.*
Hershberger, Clarence Bertram	*Chicago, Ill.*
Herzberg, Herbert Ralph	*Milwaukee*
Hess, Paul Edmund	*Ft. Wayne, Ind.*
Hewitt, Ernest Jeffries	*Evanston, Ill.*
Hicks, Lila	*Madison*
Hilles, Beatrice Edna	*Bourbon, Ind.*
Hillmer, Adolph Gustav	*Montello*
Hinaman, Ludelle	*East Aurora, N. Y.*
Hirsch, Edwin Waxel	*Highland Park, Ill.*
Hirtzle, Philip Deniston	*North East, Pa.*
Hitchner, Edith Joyce	*Freeport, Ill.*
Hoag, Hal William	*Chicago, Ill.*
Hoard, Elizabeth	*Ft. Atkinson*
Hodges, Thomas Merle	*Gary, Ind.*
Hoehn, Frank Ewald	*Fall Creek*
Hoel, Kenneth Paul	*Baldwin*
Hoffman, Bernice Bertha	*Madison*
Hoffman, Rudolph John	*Sioux Falls, S. D.*
Hoffmann, Erich August W.	*Madison*
Holcomb, Horace Hale, Jr.	*Hinsdale, Ill.*

Holley, Thomas Baker	*Madison*
Hollingsworth, Lida Elizabeth	*Sheboygan*
Hollister, Arthur Lisle	*South Bend, Ind.*
Hollnagel, Elizabeth Jane	*Chicago, Ill.*
Holmes, Neva Evelyn	*Genoa Junction*
Holmes, Wayne Hosmer	*Chicago, Ill.*
Holt, Viola Naomi	*Cambridge*
Holtz, Alfred Kenneth	*Columbus*
Hooper, Elizabeth Darling	*Janesville*
Hornby, Barbara	*Cloquet, Minn.*
Horrell, George Robert	*Humbird*
Horswell, Esther Helen	*Wausaukee*
Horton, Lucile	*Chicago, Ill.*
Hosmer, Cameron Cressman	*Romeo, Mich.*
Hotchkiss, Edwin Lyman	*Madison*
Hotchkiss, Eugene Bishop	*Madison*
Hough, Graydon Max	*Carthage, Mo.*
Huberty, Agnes Alberta	*Menomonee Falls*
Huddleston, Halmond Paul	*Madison*
Huerth, Edith Josephine	*Sauk City*
Huff, Ethel Willella	*Santa Ana, Cal.*
Hughes, Dorothy Anne	*Louisville, Ky.*
Hummel, Mildred Louise	*Chicago, Ill.*
Hunter, Helen Carrol	*St. Louis, Mo.*
Hurd Carol Gertrude	*Oak Park, Ill.*
Hurwitz, Ben Louis	*Milwaukee*
Hussa, Florian Donald	*Bangor*
Hussa, Maurice Otto	*Bangor*
Huston, Louise Almira	*Ludington, Mich.*
Hutchins, Frank Daniel	*Rockford, Ill.*
Hutter, Adolph Matthew	*Fond du Lac*
Huyette, Ruth Harding	*Detroit, Mich.*
Hyde, Jane Lynden	*Milwaukee*
Hyslop, James Kenneth	*Madison*
Ihland, William Griffith	*DeForest*
Ingold, Emil Dee	*West Allis*
Jackson, Edith Louise	*Milwaukee*
Jacobsen, Margaret	*Wilmette, Ill.*
Jaeger, Harold Hector	*Highland Park, Ill.*
Jahn, William August	*Milwaukee*
Jameson, Alice Mary	*St. Paul, Minn.*
Jamieson, Helen Louise	*Madison*
Jandrey, Arthur Stevens	*Neenah*
Jansky, Karl Guthe	*Madison*
Janssen, Frank John	*Green Bay*
Jeffers, James Leo	*Lake Geneva*
Jensen, Archibald Peter	*Decorah, Iowa*
Jensen, Myrtle	*Madison*
Jensen, Thyra Christine	*Madison*

Jewell, Jean Marjorie	*Omaha, Neb.*
Johns, Cedric Perkins	*Dodgeville*
Johnson, Bernice	*Bear Creek*
Johnson, Carmen Josephine	*Wautoma*
Johnson, Elliot Atwood	*McFarland*
Johnson, George Carl	*Kenosha*
Johnson, Hobart Stanley, Jr.	*Madison*
Johnson, Ida Mae	*Stoughton*
Johnson, Ione Margaret	*Madison*
Johnson, Maurice Lee	*Chicago, Ill.*
Johnson, Roy Sidney	*Madison*
Johnson, Verna Marie	*Racine*
Jones, Eleanore Louise	*Waupun*
Jones, Frances Lucille	*Baraboo*
Jordan, Harry Thomas	*Hayward*
Jorgensen, Sylvia Alvena E.	*Kenosha*
Jorgenson, Gladys Vivian	*Sisseton, S. D.*
Jorgenson, Milton C.	*Sisseton, S. D.*
Kading, Leslie Julius	*Black Earth*
Kaercher, Howard Elliott	*Ortonville, Minn.*
Kahn, Ernest Newman	*Chicago, Ill.*
Kahn, Florence Marion	*Appleton*
Kaneda, Kazno	*Kudamatsu, Japan*
Kasdin, Helen Leah	*Madison*
Kasiska, Robert Harold	*Baraboo*
Kastler, Norman Montonya	*Racine*
Katz, Samuel David	*Marinette*
Kaufman, Norman Nathan	*Oshkosh*
Keenan, Margaret Kelly	*Madison*
Kelley, Edward Carleton	*Joliet, Ill.*
Kellogg, James Harrington	*Wisconsin Rapids*
Kelly, Alice Louisa	*Mineral Point*
Kelly, Grace Elizabeth	*Mineral Point*
Kennan, James Gordon	*Milwaukee*
Kennedy, Sam Grant, Jr.	*Tulsa, Okla.*
Kent, Arleigh Stelladeane	*S. Milwaukee*
Kessler, Wesley Dumont	*Stoughton*
Kileen, Ruth Anna	*Wautoma*
Kilpatrick, Wendell James	*West Allis*
Kilstrom, Adelaide Portia	*Grand Rapids, Mich.*
Kimball, Dorothy Mary	*Waukesha*
Kincannon, Camilla Maud	*Madison*
Kingston, Marjorie Burr	*Lockport, Ill.*
Kirkpatrick, Curry Halley	*University City, Mo.*
Kirwin, Lois Kathryn	*Madison*
Kivlin, Lucille Catherine	*Oregon*
Klein, Sylvia	*Kansas City, Mo.*
Kleinpell, Walter Carolas	*Madison*
Kletzien, Helmuth Gerard	*New Holsten*

Klinger, Leo Joseph	*Cedar Rapids, Iowa*
Knoefel, Peter Klerner	*Terre Haute, Ind.*
Knoll, Lucile Caroline	*S. Milwaukee*
Koepenick, Dorothea Marie	*Fond du Lac*
Kohler, Selma Molander	*De Kalb, Ill.*
Kolb, Robert Schumann	*Wauwatosa*
Kolinski, William Michael	*Racine*
Konnak, Harold Adolph	*Racine*
Koplin, Roy Jacob	*Lake Mills*
Korfmacher, Edwin Stanley	*Cottage Grove*
Kostoff, Evelyn Helen	*Flint, Mich.*
Krapfel, Winifred Grace	*Madison*
Krehl, William Homer	*Madison*
Kremer, Paul Edward	*Fond du Lac*
Kreml, Franklin Martin	*Chicago, Ill.*
Krings, John Marcus	*Madison*
Krisses, Joseph Alfred	*Kenosha*
Krueger, Lilly Louise	*Ripon*
Krug, Eugene	*Milwaukee*
Krug, Florence Mary Bertha	*Madison*
Krupka, Francis John	*Riverside, Ill.*
Kruse, Mary Margaret	*Enid, Okla.*
Kubly, Harold Edward	*Madison*
Kuehn, Laura Louise	*Burnett*
Kuenzli, Elizabeth Mary	*Wauwatosa*
Kuester, Emil August	*Milwaukee*
Kuhnhenn, Calvin	*Belmont*
Kupperman, Solomon Edward	*Philadelphia, Pa.*
Kurth, Erwin Frank	*Milwaukee*
Kurth, Genevieve Charlotte	*Milwaukee*
Labowitch, Helene Dorothy	*Chicago, Ill.*
Laemle, Robert Mayer	*Marshfield*
Lambeau, Raymond Emil	*Green Bay*
Lamboley, Earl Francis	*Monroe*
Lamont, Isabelle Cecelia	*Gile*
Lamp, Bertha Eunice	*Madison*
Lane, Albert Walton	*Janesville*
Lange, Martha Norma	*Delavan*
Langford, Helen	*Portage*
Langhus, Melvin Orlando	*Westby*
Larkin, George Johnson	*Oconomowoc*
Larson, Lloyd Gustav	*Milwaukee*
Larson, Theodore Carl	*Madison*
Laun, Lucile Doris	*Baraboo*
Lausche, Howard William	*Madison*
Lawrence, Dorothy Victoria	*Burlington*
Leach, Edith Ann	*Chicago, Ill.*
Leadstone, Ruth Denise	*Merrimac*
Lee, Amanda Emma	*Cashton*

Lee, Earl Reuben	*Kiel*
Lee, Howard James	*Milwaukee*
Lee, John Herman	*Madison*
Lehman, Walter Herman	*Baraboo*
Leiserson, Florence Rennie	*New York, N. Y.*
Lemen, Susan Permelia	*Alton, Ill.*
Leslie, Robert Bryant	*Oregon*
Levin, Ezra Oscar	*Clayton*
Levin, Julius	*Madison*
Lewis, Earle Norman	*McFarland*
Lien, Marvin Tilman	*Blanchardville*
Lifschitz, Ralph Meyer	*Newark, N. J.*
Lilygren, Stella Irene	*Wilmette, Ill.*
Lincks, Percy Arthur	*Watertown*
Linden, Kathryn Fuller	*Madison*
Lindow, Anita Frida	*Sheboygan*
Lipman, Harold J.	*Antigo*
Lloyd, Edwin Iven	*Janesville*
Lloyd, Loraine Gibb	*Milwaukee*
Locke, Jeanne	*Grand Haven, Mich.*
Lockhart, Gertrude May	*Watseka, Ill.*
Lohbauer, Frances Helen	*Madison*
Londa, Leo Patrick	*Escanaba, Mich.*
Long, Ernestine Martha Joullian	*Clayton, Mo.*
Long, Thomas Joseph	*Chicago, Ill.*
Love, Ruth Odessa	*Madison*
Lueck, Ruth Hedwig	*Beaver Dam*
Luehr, Robert William	*Madison*
Lund, Arthur Norman	*Stoughton*
Lund, Gladys Marie	*Madison*
Lustig, Abraham Arthur	*Chicago, Ill.*
Lyons, Edward Eugene	*La Crosse*
McAleer, Marion	*Hammond, Ind.*
McArthur, Robert Edgar	*Gary, Ind.*
McBain, Frederica Eileen Elizabeth	*Madison*
McCaffrey, Catherine	*Madison*
McCarter, John Carroll	*Duluth, Minn.*
McCarthy, Katherine O'Shea	*Madison*
McCaul, Thomas Frank	*Tomah*
McCollister, Edith	*Jerseyville, Ill.*
McCoy, Marguerite	*Delavan*
McCutcheon, William Keith	*Arena*
McDonough, Ruth Mary	*Denver, Col.*
McGann, Louis Cook	*Baraboo*
McGinnis, James Francis	*Baraboo*
McGirr, Gerald Francis	*Baraboo*
McGiveran, Stanley James	*Chicago, Ill.*
McGlenen, Marie Maud	*Cleveland, Ohio*
McGovern, Margaret Grace	*Milwaukee*

McIntosh, Douglas Ballard	*Milwaukee*
McKee, Rachel I.	*Madison*
McKee, Rose Mary	*Madison*
McKeegan, Lucile Ellen	*Rock Valley, Iowa*
McKone, Dorothy Elizabeth	*Green Bay*
McLoney, James Fred	*Wilmette, Ill.*
McManamy, Inez Mary	*Madison*
McMurry, Edith Nott	*Madison*
McNamara, Margaret Anna	*Hibbing, Minn.*
Mabowehz, Clara	*Milwaukee*
Mackin, John Christopher	*Madison*
Magistad, Gertrude Mallam	*Forestville*
Malec, Ethel	*Madison*
Maley, Ann Lenore	*Chicago, Ill.*
Mangleson, Edna Elizabeth	*Muskegon, Mich.*
Manley, Genevieve Anita	*Sun Prairie*
Mann, Oscar Will	*Watertown*
Manser, Aldor Robert	*Madison*
Mantell, Rose Esther	*Racine*
Manthe, Evelyn Catherine	*Madison*
Manthey, Percy Herman	*Green Bay*
Marden, Jane Alise	*Oshkosh*
Mark, Anson, Jr.	*Evanston, Ill.*
Marquis, Veve	*Benton, Ill.*
Marsh, Dorothy	*Milwaukee*
Marshall, Charles Arthur	*Chicago, Ill.*
Marshall, Helen Ramsay	*Madison*
Marshall, John	*Madison*
Marshall, Wallace Sydney	*Appleton*
Martineau, Pierre Duane	*Marinette*
Marty, Selina Verena	*Monticello*
Mason, Everett William	*Lake Mills*
Mason, William Vroman	*Madison*
Mathys, Elias R.	*Maiden Rock*
Matsen, Morris	*Oregon*
Mattek, Benjamin William	*Deerbrook*
Matts, Helen Lamont	*Madison*
Maxwell, James Lee Roy	*Madison*
Mead, Emily Phelps	*Wisconsin Rapids*
Meade, Michael Henry	*Hurley*
Meek, Shirley Katherine	*Toledo, Ohio*
Meinke, Alfred John	*Madison*
Meissner, Charles David	*Milwaukee*
Melaas, Helen Elizabeth	*Stoughton*
Mellencamp, Keith Wilde	*Milwaukee*
Menhall, Joseph Lawrence	*Beloit*
Merar, Thomas James	*Marinette*
Merica, Ewart Lytton	*Rensselaer, Ind.*
Metcalf, Helen Jeanette	*Madison*

Meter, Mildred	*Oshkosh*
Meter, Norman	*Sheboygan*
Meves, Oleta Olga	*Sheboygan*
Meyer, Francis William	*Madison*
Meyer, Lucille Marcella	*Reedsburg*
Meyer, Sarah	*Cedar Lake, Ind.*
Meyst, James Gardner	*Milwaukee*
Mildenberg, Marvin	*Chicago, Ill.*
Millard, Edward Paterson	*New London*
Miller, Barbara Elizabeth	*Aurora, Ill.*
Miller, Celia Eleanor	*Madison*
Miller, Jean	*Sturgis, Mich.*
Miller, Richard Dunbar	*Racine*
Mills, William Benjamin	*Janesville*
Mischo, Othmer Joseph	*Wabeno*
Misselhorn, Richard Arthur	*Kendallville, Ind.*
Mitchell, Donald Orr	*Duluth, Minn.*
Moelk, Jacob William	*Janesville*
Moffit, Frank Lyle	*Aledo, Ill.*
Mogg, Millard E.	*Indianapolis, Ind.*
Monihan, Robert Stewart	*East Orange, N. J.*
Moore, Edward Harold	*Madison*
Moore, Jane Evans	*Dayton, Ohio*
Moorhead, Alfred J. Lewis	*Minneapolis, Minn.*
Moran, John Edward	*Madison*
Moreland, Ernest Sloyer	*Hayward*
Morgan, Grace Alma	*Spring Green*
Morgan, Gwendolyn Evans	*Cambria*
Morgan, Vivian Eunice	*Madison*
Morley, Grace Card	*Madison*
Morrissey, Katherine Cyrilla	*Madison*
Morse, Earl Lewis	*Milwaukee*
Mountcastle, Dorothy Elizabeth	*Cleveland, Ohio*
Mueller, Carl Frederickson	*Madison*
Mueller, Florence Evelyn	*Hot Springs, S. D.*
Mueller, Helen	*Milwaukee*
Mueller, Ilse Gertrude	*Milwaukee*
Mueller, Mildred Aurelie	*Princeton*
Müller, Walter Joseph	*Chicago, Ill.*
Munson, Dexter Irvine	*London*
Munson, Earl Henry	*London*
Murray, Charles Gordon	*Hinsdale, Ill.*
Nash, Lucille Gertrude	*Madison*
Nast, Charlotte Georgia	*Mountain*
Nathan, Marian Eleanor	*Pueblo, Col.*
Nathenson, Herman	*Madison*
Neitge, Louisa Julia	*Deer Park*
Nellen, Elizabeth Dorothy	*Madison*
Nelson, Charles Ellsworth, Jr.	*Waukesha*

Nelson, Frank Hubert	*Milwaukee*
Nelson, James Morange	*Oak Park, Ill.*
Nelson, Margaret H.	*Edgerton*
Nelson, Marjorie Elaine	*Wheaton, Ill.*
Nelson, Robert Augustus	*Cuba City*
Nelson, Sidney John	*Eau Claire*
Newby, Delilah Marie	*Madison*
Newby, Irene Mae	*Madison*
Newlin, Ruth	*Madison*
Newman, Mark Humphrey, Jr.	*Mascot, Tenn.*
Nichols, Alice Glenn	*Delavan*
Nichols, George William	*Edgerton*
Nichols, Helen Louise	*Milwaukee*
Nichols, Walton Charles	***Madison***
Nickodem, Alex Conrad	*Princeton*
Nola, Alice Margaret	*Nappanee, Ind.*
Norman, Dwight Lewis	*Saxon*
Norton, Eileen Marie	*Quarry*
Nourse, Robert	*Milwaukee*
Nowell, Elizabeth Lloyd	*Milwaukee*
O'Dea, Elizabeth Margaret	*Madison*
Odell, Nadine May	*Quincy, Ill.*
Oerkwitz, Alice Mary	*Milwaukee*
O'Hara, Edward Vincent	*Gary, Ind.*
Olds, Margaret Lenore	*Madison*
Oliver, Sarah Conley	*Grand Rapids, Mich.*
O'Loughlen, William Barth	*Madison*
O'Neil, Genevieve Elizabeth	*Madison*
O'Neill, June Margaret	*Madison*
Oppel, Theodore Wright	*Madison*
Orcutt, Lester Raymond	*Fontana*
Orth, Sylvia Louise	*Milwaukee*
Osterburg, Harold	*Cambridge*
Ostrum, Karl Crosier	*Hinsdale, Ill.*
Owen, Gertrude Longwell	*Racine*
Pabst, Robert Erwin	*Oconomowoc*
Page, Edward Jay Willard	*Elkhorn*
Page, Mary Louise	*South Bend, Ind.*
Palmer, Ardelia Mae	*Madison*
Palmer, Gladys May	*Kenosha*
Palmer, Joyce LaRue	*Cleveland, Ohio*
Palmer, Tom Edward	*St. Croix Falls*
Parker, Harry Lemon	*St. Louis, Mo.*
Parmenter, Willis Albert	*Fern*
Partch, Maurine Pearl	*Columbus*
Patterson, Helen	*Mankato, Minn.*
Patterson, Paul Edger	*Monroe*
Pattinson, Pauline Margaret	*Rochester, Minn.*
Paul, Ellen Janet	***Milton Junction***
Paulson, Janette	*Mt. Horeb*

Peacock, Allan Gordon	*Lake Geneva*
Pearson, Carlyle Roberts	*Madison*
Petersen, Edward William	*Kenosha*
Peterson, Adolph Hans	*Irma*
Peterson, George Kent	*Laona*
Petty, Louise Emily	*Clinton, Iowa*
Petty, Martha Jeanette	*Lancaster*
Pfingst, Daisy Willette	*Louisville, Ky.*
Picher, Oliver Stanton	*Hubbard Woods, Ill.*
Piper, Elizabeth Ann	*Madison*
Plautz, Sylvia Augusta	*Melvina*
Pool, John Seth	***Kenosha***
Poole, Julia Kathleen	*Madison*
Port, Ruth Emily	*Portage*
Porter, Edith Darline	*Madison*
Porter, Eleanor Evans	*Evansville*
Porter, Knight Cunningham	*Chicago, Ill.*
Porter, Vernon Carlyle	*Wichita, Kan.*
Portman, Guy Dominic	*Ladysmith*
Postel, Roland Roger	*Wauwatosa*
Posthuma, Helen Marjorie	*Chicago, Ill.*
Potter, Charles Augustus	*Rudolph, Ohio*
Potter, Dorothy May	*Madison*
Poull, Jeanette Clara	*West Bend*
Powers, Ruth Evelyn	*Chicago, Ill.*
Preston, William Seaverns	*Glencoe, Ill.*
Prochnow, Beata Naomi	*Wilton*
Prosser, John Rice	***Antigo***
Pruitt, Basil Ethridje	*Bainbridge, Ind.*
Rabinoff, Elizabeth Leah	*Madison*
Rabinoff, Rose Margaret	*Madison*
Radtke, Charles William	*Lake Geneva*
Ragatz, Roy Tarnutzer	*Madison*
Rahr, William	***Manitowoc***
Ramlow, Leonard William	*Madison*
Ramsey, Laurence Sherman	*Cedar Rapids, Iowa*
Randall, Dorothy Jean	*Janesville*
Rapkin, Joseph Eugene	*Milwaukee*
Rashman, Gordon Leonard	*Milwaukee*
Ratcliff, Richard Updegraff	*Madison*
Rathbun, Harriett Isabel	*Madison*
Rathje, Marion Belle	*Chicago, Ill.*
Read, Marion Elizabeth	*Laurium, Mich.*
Reagan, Dorothy Josephine	*Knightstown, Ind.*
Reck, Virginia Dart	*Madison*
Redell, Alma Wilhelmina	*Madison*
Redell, Luella Marie	*Madison*
Reed, Jane Loretta	*Manitowoc*
Reed, Thomas Cameron	*Oshkosh*
Reel, Robert Ullman	*Milwaukee*

Regez, Helen Mathilda	*Hixton*
Reilly, Eleanor Rose	*Fond du Lac*
Reilly, Joseph Francis	*Pueblo, Col.*
Reinsch, Claire Pauline	*Madison*
Rendigs, Grace Diehl	*Madison*
Renzel, Ernestine Eaton	*San Jose, Cal.*
Richardson, Alice Mary	*Elgin, Ill.*
Richardson, Clark Cornelius	*Madison*
Richardson, Eddie Calvin	*Spring Gre*
Richdorf, Matt Joseph	*Maribel*
Richter, Joe Rhode	*Racine*
Rider, Georgie	*Madison*
Risjord, Norman Edmond	*Ashland*
Rivers, Truman Edward	*Stanley*
Robinson, Marjorie Mayo	*Madison*
Roehl, John Walter	*Appleton*
Rosen, Edith Sadler	*Detroit, Mich.*
Rosen, Millicent Rhea	*Muskegon, Mich.*
Rosenfels, Richard Samuel	*Oak Park, Ill.*
Rosenthal, Charles S.	*Dixon, Ill.*
Ross, John James	*Mineral Point*
Rowe, Selma Elvina	*Scandinavia*
Rowley, Pauline Lucinda Marie	*Madison*
Rubadeau, Lenore Gladys	*Madison*
Ruehlman, David Daniel	*Prairie du Sac*
Ruhling, Theodora Anna	*Chicago, Ill.*
Runkel, Violet Marie	***Prairie du Chien***
Ruscha, Gordon James	*Milwaukee*
Russell, Alice Pearl	*Great Bend, Kan.*
Ruud, Helen Bertha	*Cambridge*
Ryan, Nora Mary	*Lodi*
Ryckowski, Stanley Felix	*Kenosha*
Sachtjen, Robert Merlin	*Madison*
Samosky, Bernhard	*Milwaukee*
Sanville, Everett James	*Milwaukee*
Sarff, Charles Thompson	*Shullsburg*
Scanlan, Gerald	*Chicago, Ill.*
Scanlon, Mary Agnes	*Madison*
Schaefer, John Willis	*Baraboo*
Schaefer, Ralph Frick	*Louisville, Ky.*
Schaller, Robert Clark	*Janesville*
Scharr, Lola	*Alma*
Scheufler, Doris Gladys	*Merrimac*
Schloegel, Alice Katherine	*Milwaukee*
Schmeckebier, Laurence Edwin	*Chicago Heights, Ill.*
Schmidt, Carl William	*Wauwatosa*
Schmitt, Homer Charles	*Dodgeville*
Schmitt, Loraine Mary	*Dodgeville*
Schneider, Ralph Afton	*Madison*
Schoechert, Grace Victoria	*De Forest*

Schoenoff, Alfred Emil	*Menomonie*
Schoonover, Lawrence Lovell	*Cedar Rapids, Iowa*
Schuchardt, Carl Paul	*Chicago, Ill.*
Schuckman, Fred Arthur	*Beaver Dam*
Schult, Veryl Gladys	*Juneau*
Schultz, Senta	*Milwaukee*
Schutkin, Meyer Wellington	*Milwaukee*
Schwade, Edward David	*Milwaukee*
Schwartz, Rosalind	*Two Rivers*
Schwarz, Arnulf Ernest Jacob	*Middleton*
Schwenger, Robert B.	*Milwaukee*
Scott, Robert Harrison	*Berlin*
Scudder, Hervey, Clark, Jr.	*Trenton, N. J.*
Seaman, Albert Linsell	*Wilmette, Ill.*
Sears, Edward Randall	*Madison*
Seastone, Charles Victor	*Madison*
Senn, Roland Wesley	*Oshkosh*
Shebesta, Emil Michael	*Cato*
Sheldon, John	*Kansas City, Mo.*
Shields, Erwin John	*Milwaukee*
Shlimovitz, Minnie Ruth	*Sparta*
Sickinger, Gwynne Snowden	*Granville, Ill.*
Silverman, Helen	*Marathon*
Simmons, Catherine Ella	*Omaha, Neb.*
Sims, Janet	*Madison*
Sinykin, Louise Doris	*Madison*
Sister Clare Holmes	*Madison*
Sivak, Theodore George	*Kenosha*
Skelley, Leyland Ernest	*Monticello, Iowa*
Skelly, Barbara Charlotte	*Oak Park, Ill.*
Skinner, Morgan Ellis	*Waupaca*
Skinner, Virginia Edith	*Madison*
Slightam, Mildred Gladys	*Madison*
Smith, Genevieve McFarland	*Hinsdale, Ill.*
Smith, Gilbert Joseph	*Milwaukee*
Smith, Harriet Florence	*Detroit, Mich.*
Smith, Hazel Andrine	*New Castle, Pa.*
Smith, Maurice Joseph	*Madison*
Smith, Phillips Walter	*Wilton*
Smith, Richard George	*Racine*
Smith, Virginia Margaret	*Wauwatosa*
Smits, Katherine Gertrude	*Monticello, Iowa*
Solum, Norman Kraabel	*Woodville*
Son, Lester Lawrence	*Danville, Ill.*
Sonnentag, Olive Marie Antoinette	*Racine*
Sontag, John Arnold	*Wautoma*
Sorenson, Norman Oscar	*Gillette*
Spear, Mary Reeve	*Marquette, Mich.*
Speed, John Clarence	*Oak Park, Ill.*

*Spohn, Viola Ruby	*Madison*
Spoon, Margaret Helen	*Janesville*
Springberg, Joseph Charles	*Madison*
Stadel, Ernest Vernon	*Hazel Green*
Stampfer, Esther Myra	*St. Louis, Mo.*
Stanton, John Edmund	*Los Angeles, Cal.*
Stark, Harold Clarence	*Madison*
Stearns, Rexford Hiram	*Omro*
Stebbins, Dorothy Katharine	*Maywood, Ill.*
Steel, Ida Helen	*Milwaukee*
Steel, Marcella Reed	*Milwaukee*
Steele, Elsie Rae	*Sparta*
Steffen, Richard David	*Antigo*
Stenjem, Dorothy Marie	*Madison*
Stephenson, George Raphael	*Cloquet, Minn.*
Stetson, Roger H.	*Lake Mills*
Stevens, Edgar Hills	*Chicago, Ill.*
Stevens, Martha	*Kenilworth, Ill.*
Stibbe, Ruth Viola	*Peshtigo*
Stienecker, Mrs. Clara Graef	*Madison*
Stiles, John Alden	*Lake Mills*
Stock, Esther Marie	*Madison*
Stoekle, Silvia Ruth	*Madison*
Stoick, Capitola	*Madison*
Stolen, Lenore Romola	*Madison*
Stolte, Dorothea	*Reedsburg*
Stone, Charles Turner	*Oconomowoc*
Stone, Elizabeth Nancy	*Oconomowoc*
Stone, Paul Frank	*Oconomowoc*
Storer, Mary Catherine	*Rockford, Ill.*
Stowe, Morton	*Milwaukee*
Straus, Robert Eli	*Chicago, Ill.*
Strauss, Harriett Helene	*Marshfield*
Streich, Charles Albert	*Oshkosh*
Stroeder, Elizabeth Alice	*Cumberland*
Stuart, John Douglas	*Springfield, Ill.*
Suckern, Lillie Emelea	*Manitowoc*
Sudweeks, Leslie Laban	*Kimberley, Ida.*
Suits, Guy	*Medford*
Sullivan, Robert Charles	*Madison*
Sullivan, Virginia Adele	*Chicago, Ill.*
Swan, George Campbell	*Beaver Dam*
Sykes, Lawrence Eugene	*St. Croix Falls*
Tallard, Sidney Clark	*Madison*
Tappert, William Franklin	*Long Pine, Neb.*
Tarrant, Irving Stephens	*Milwaukee*
Taubkin, Irvin Stearns	*Brooklyn, N. Y.*
Taussig, Joseph Maurice	*Wilmette, Ill.*

*Died January 31, 1924.

Taylor, Doris Barbara	*Waupun*
Taylor, Mary Ann	*Madison*
Taylor, Melvin John	*Merrill*
Tessier, Alban Francis	*De Pere*
Testwinde, Konrad Cullen	*Sheboygan*
Thiede, Gertrude Sophia	*Two Rivers*
Thomas, Dorothy May	*Janesville*
Thomas, Virginia Kathryn	*Evanston, Ill.*
Thompson, Arleta Thyra	*Joliet, Ill.*
Thompson, Barbara Guile	*Oshkosh*
Thompson, Charles Thomas	*St. Croix Falls*
Tikalsky, Norman Charles	*Brillion*
Timbers, M. Eileen	*Mauston*
Tjoflat, Oliver Eugene	*Ettrick*
Toepel, Marinus Gustave	*Neenah*
Tollefson, Levi J.	*Cloverton, Minn.*
Tomei, Felix Joseph	*Chicago, Ill.*
Tooman, Jeannette Hildegarde	*Racine*
Tormey, Mary Elizabeth	*Twin Bluffs*
Torrison, Odin Emanuel	*Sheboygan*
Tough, Evelyn	*Madison*
Trachte, George Harold	*Johnson Creek*
Traynor, Edna Anne	*Milwaukee*
Treichel, William Charles	*Racine*
Trenary, Donald Calvin	*Kenosha*
Trubell, Oscar	*Glasgow, Mont.*
Turner, Harriet Pauline	*Kewanee, Ill.*
Twohig, Rose Seraphine	*Fond du Lac*
Tyler, Stanley Allen	*Jefferson*
Uehling, Harold Fredrich	*Lowell*
Unger, Otto Eugene	*Worden, Ill.*
Urazon, Quentin Talentine	*Philippine Islands*
Urben, Walter John	*Monticello*
Utzerath, Henrietta Josephine	*Madison*
Van Arnam, Charles Howe	*Ft. Wayne, Ind.*
Van Dreser, Irene Marie	*Elk Mound*
Van Konynenburg, Francis	*St. Croix Falls*
Van Pool, Gerald Meredith	*Janesville*
Van Wagner, Genevieve Ilah	*Hillsboro*
Vaughan, Edith Caroline	*Amboy, Ill.*
Veit, Clarence Phillip	*Milwaukee*
Vergenz, George Louis	*Johnson Creek*
Vernon, William Fred	*Newton, Iowa*
Villemonte, Dorothy Ellen	*Fennimore*
Volckmann, Esther Margaret	*Clinton, Iowa*
Volk, Meyer	*Milwaukee*
Von Bremer, George Alexander	*Chicago, Ill.*
Vrba, Blanche Josephine	*Riverside, Ill.*
Wade, Mary Elizabeth	*Oak Park Ill.*
Wagenknecht, Herbert Arthur	*Kiel*

Wagner, David	*Bloomville*
Walker, Dorothy Ann	*Madison*
Walker, Norman Earl	*Burlington, Iowa*
Wallace, Leslie Glidden	*Eau Claire*
Wallrich, Matthew Michael	*Shawano*
Walter, Cecile Louise	*Menasha*
Wang, Esther Jeanette	*Wittenberg*
Ward, John Mackenzie	*Tomah*
Warner, Ernest Noble, Jr.	*Merrill Springs*
Warren, Barbara Ellen	*Cedar Rapids, Iowa*
Warsinske, Harold Frederick	*Marshfield*
Waste, Elwin Glen	*Poynette*
Waterman, Ella Warren	*Stockton, Ill.*
Watterson, Lucile Frances	*La Grange, Ill.*
Weatherford, Martha Jane	*Chicago, Ill.*
Weber, Ruth	*Cleveland, Ohio*
Wedlake, James Russel	*Dodgeville*
Weesner, Margaret Redding	*Marion, Ind.*
Weiss, Bernard	*Chicago, Ill.*
Weissmiller, Lester Lee	*Monticello*
Wells, Esther Hortense	*Oak Park, Ill.*
Wendel, Arthur Sylvester	*Random Lake*
Werner, Nathalie Alice	*Mt. Horeb*
Wetmore, Dorothy Irene	*Birnamwood*
Wheatley, Stanley Allen	*Winnetka, Ill.*
Wheeler, Theodore Harvey	*Ashland*
Whitaker, Dorothy Ruth	*Madison*
White, Laura Blythe	*Humboldt, Iowa*
Whitfield, Murray James	*Madison*
Wicks, Helen Josephine	*Chicago, Ill.*
Wilde, Helen Dorothy	*Rhinelander*
Willett, Dean	*West Allis*
Willey Cecil Reed	*Algona, Iowa*
Williams, David Leslie	*Madison*
Williams, Harrison Demuth	*Cleveland, Ohio*
Williams, Margaret Ethelyn	*Cambria*
Williams, Margaret Haynes	*Oshkosh*
Winchell, Clare Berenice	*Madison*
Winkler, Violet Rosalia	*Merton*
Winnie, Russell Griffiths	*Milwaukee*
Winter, Gustav R. F.	*Antigo*
Winter, Josephine May	*Rewey*
Winterbotham, Bernice Elizabeth	*Madison*
Wiswell, Clifford Young	*Elkhorn*
Wittke, Irma Jane	*Wausau*
Wittwer, Edwin C.	*South Bend, Ind.*
Woldenberg, Haskell Mendl	*Madison*
Wollaeger, Miriam Magdalen	*Milwaukee*
Wolter, Lethel Arnetta	*Monroe*
Wood, Augustus Rawson	*Kenilworth, Ill.*

Woodford, Donald Willsey	*Madison*
Woodruff, Dorothy	*Camden, N. J.*
Worden, Howard Edgar	*Ladysmith*
Worst, Betty Chowning	*Lockport, Ill.*
Wright, Geraldine Millicent	*Madison*
Wright, Helen Lancaster	*Milwaukee*
Wright, Lizbeth Lou	*Lebanon, Ohio*
Young, Eugenia Vivian	*Janesville*
Young, Frederick James	*Madison*
Younge, Paul Adolph	*Peoria, Ill.*
Zahorik, Frank Vincent	*Green Bay*
Zelner, Bee	*Charles City, Iowa*
Ziebell, Aline Frances	*Milwaukee*
Zieman, Clayton Melvin	*Randolph*
Zieske, Adelaide Alice	*Madison*
Zucker, Eugene Burton	*Chicago, Ill.*

Course of Commerce

Adams, John Hackett, Jr.	*Wauwatosa*
Albright, John Eldridge	*Madison*
Allen, Gibbs Rue	*Madison*
Allen, Herbert John	*Wauwatosa*
Alstrin, Edwin Frank	*River Forest, Ill.*
Andersen, Axel Schaufus	*Waupaca*
Anderson, Frank Lawrence	*Bayfield*
Annis, Albert David	*Council Bluffs, Iowa*
Armstrong, Harold	*Madison*
Arne, Peter	*Eagle Grove, Iowa*
Arveson, Ardin James	*Wautoma*
Bacon, Joseph Earl	*Chicago, Ill.*
Bakken, Alvin Theodore	*Stoughton*
Baldwin, Robert Burdette	*Evansville*
Baltes, Hilda Cecelia	*Madison*
Barber, Morris	*Madison*
Bardeen, William	*Madison*
Bark, Ila Estrid	*Sandwich, Ill.*
Bauer, Glenn Ernest	*Fond du Lac*
Becker, Herbert John	*Appleton*
Benedict, Durell Julius	*Fond du Lac*
Benninger, Merlin Clemens	*Waterloo*
Bickel, Victor John	*Reeseville*
Biwer, Hieron Nicholas	*Waukesha*
Blair, Robert Burdick	*Plainfield*
Bodden, William Albert	*Menasha*
Bratton, William Cecil	*Chicago, Ill.*
Brown, Frank Daniel	*Helena, Mont.*
Brunkow, Clarence Oscar	*Juda*
Bruns, Grover Harold	*Madison*

Bruns, Harold Edward	*Plymouth*
Butler, William Pitt, Jr.	*Evanston, Ill.*
Cape, Benjamin Milo	*Racine*
Cassidy, Clayton Graham	*Rockford, Ill.*
Cline, Harry Friedlander	*Milwaukee*
Cohen, Max	*Madison*
Cohn, Harry Eli	*Kenosha*
Colberg, Harry Cloyd	*Danville, Ill.*
Collin, William Frank	*Lodi*
Coons, Kenneth Eugene	*Madison*
Cooper, Edward Lyle	*Madison*
Corlett, Kenneth Edgar	*Blanchardville*
Coryn, Francis Robert	*St. Charles, Ill.*
Crook, John Austin	*La Crosse*
Culp, Carl Chatman	*Madison*
Curry, Richard Cook	*Baraboo*
Dagnon, Francis John	*Gays Mills*
Dale, Charles Robert	*Lake Geneva*
Daniels, Ralph Augustus	*Oak Park, Ill.*
Davenport, Harry Denniston	*Baraboo*
Davis, Donald Royal	*Madison*
Davis, Josephine Elizabeth	*Madison*
Denninger, John Gromme	*Watertown*
Doman, Lester John	*New London*
Donagan, Edward Francis	*Janesville*
Dresen, Marcus William	*Sauk City*
Du Val, Alexander Gilmore	*Milwaukee*
Dymond, Wayne Erwin	*Belvidere, Ill.*
Dynes, Sarah Alice	*Riceville, Iowa*
Eastman, John	*Cleveland Heights, Ohio*
Egbert, Gilbert Edward	*Green Lake*
Elander, Bert LeRoy	*Rockford, Ill.*
Ellingboe, Clarence Howard	*Menasha*
Emery, Fern Kathryn	*Kenosha*
Erickson, Wilfred Herbert	*Durand*
Erskine, Walter Clyde	*Jacksonport*
Farber, Gerhart William	*Madison*
Farnsworth, Ray	*Cresco, Iowa*
Feuchtwanger, Richard Jacob	*Chicago, Ill.*
Fieting, John Watson	*Tomah*
Finkh, Evelyn Louise	*Janesville*
Fiske, Charles Clifford	*Darien*
Flickinger, James Rodgers	*Toledo, Ohio*
Flint, Willard Lee	*Sioux Falls, S. D.*
Flynn, Robert George	*Madison*
Franchère, Hoyt Catlin	*Sioux Cty, Iowa*
Franklin, Emil	*Milwaukee*
Fritsch, Arthur Wichmann	*Wauwatosa*
Gaik, Arthur Edward	*South Bend, Ind.*

Garnich, Will, Jr.	*Ashland*
Garton, Eusebius Carl	*Sheboygan*
Gehrke, George Rudolph	*Appleton*
Gill, Donald Eli	*Madison*
Gillespie, Edward Stutte	*Chicago, Ill.*
Goebel, Erwin Charles	*Antigo*
Goedecke, Harold August	*Merrimac*
Goetz, Robert John	*Madison*
Gotstein, John I.	*Madison*
Greenblatt, Herbert Isadore	*Milwaukee*
Gunning, Richard Joe	*Friendship*
Hagemeister, Henry Frank	*Kewaunee*
Hammes, Robert Ellwin	*Madison*
Hammett, Edward	*Sheboygan*
Hanson, Williston Isadore	*Beloit*
Harget, Edmond George	*La Crosse*
Heberlein, Howard Frederick	*Milwaukee*
Heiss, Newton Jerome	*Delavan*
Hemphill, Fred Rice	*Chicago, Ill.*
Helden, Earl Frank	*Chicago, Ill.*
Hiegel, Joseph Michael	*Jacksonport*
Himes, Harold Theodore	*South Bend, Ind*
Hingiss, Alfred Frederick	*Kiel*
Holcomb, Glenn Palmer	*Wauwatosa*
Holmes, Richard Power	*Chicago, Ill.*
Howard, Cyril Marshall	*Brodhead*
Howe, Elmer Clayton	*Eau Claire*
Husebo, Raymond	*Green Bay*
Husting, Charles Otto	*Oshkosh*
Huth, Alvin Helmuth	*Seymour*
Hyne, Gresham Alexander	*Evansville*
Iversen, Lothar Iver	*New Holstein*
Jacobs, Carl Bernhard	*Manitowoc*
Jennie, Anna Kathryn	*Madison*
Jirtle, Howard William	*Antigo*
Johns, Carlton Hardy	*La Crosse*
Johnson, John Victor	*Baraboo*
Johnson, Raymond Geoffrey	*Madison*
Johnson, Russell Bertrand	*Madison*
Johnston, Louis Alexander	*McKinney, Tex.*
Jones, Vernon Rector	*Harvard, Ill.*
Jones, Willis Leslie	*Madison*
Jordan, James Robert	*Madison*
Jorgenson, Vernon Melvin	*Granvile, N. D.*
Judge, Grant Ernest	*St. Louis, Mo.*
Judkins, Enoch Edgar	*Grand Rapids, Mich.*
Kachel, Albert Philip	*South Bend, Ind.*
Kaska, Gordon John	*E. Troy*
Kearns, Kenneth Florence Philip	*Madison*

Keliher, Joseph Jay	*Madison*
Kilby, Jack Ritner	*Madison*
Kind, Harry Herman	*Menasha*
Kingston, Edward Paul	*Madison*
Kirk, Kenneth B.	*Chicago, Ill.*
Kleist, LeRoy August	*Potter*
Klopf, Kelvin Frederick	*Neillsville*
Klosterman, George Henry	*Shawano*
Koch, Walter Joachim	*Park Falls*
Koehler, Frederick Walter	*Medford*
Koehring, Calvin Albert	*Milwaukee*
Koepcke, Phillips Fred	*Madison*
Koltes, Irwin Joseph	*Dane*
Krebs, Walter Frank	*Chicago Heights, Ill.*
Kroner, Marie Julia	*La Crosse*
Kuhlman, Edward Joseph	*Wausau*
Laun, Harold George	*Elkhart Lake*
Laut, Wallace Malcolm	*Wausau*
Lawler, Earl Thomas	*Beloit*
Lehman, Arthur	*Milwaukee*
Lenicheck, Harold A.	*Milwaukee*
Leypoldt, Walter Alfred	*Milwaukee*
Lightner, Seward	*Hartford, Mich.*
Limerick, George	*Harrisburg, Ill.*
Lound, Alice Cornelia	*Prentice*
Lukitsch, Arthur	*Milwaukee*
McArthur, George Milis	*Baraboo*
McCartney, Jo Harper	*Crafton, Pa.*
McCurdy, Philip Wilkinson	*Madison*
McFadden, Henry William	*Madison*
Macfadden, Ward	*Fargo, N. D.*
Mack, Dwight Wesley	*St. Croix Falls*
Macklin, Chester Reginald	*New London*
Madden, Leonard George	*Tomah*
Malzahn, Florence Bertha	*West Bend*
Marshall, John Mayfield	*Stuart, Iowa*
Marshall, Melvin Samuel	*Milwaukee*
Martin, John Erhardt	*Helenville*
Marty, Lawrance George	*Monticello*
Mason, James McLerie	*Winnipeg, Canada*
Maxwell, Oden Bruce	*Racine*
Mead, Virginia Elizabeth	*Webster Groves, Mo.*
Melcher, Orlando Martin	*Wautoma*
Meltzer, Parker Alton	*Des Moines, Iowa*
Merriman, Paul Heber	*Madison*
Metz, Reuben Peter	*Madison*
Metz, Richard Peter	*Madison*
Miller, George Henry	*Beloit*
Miller, Geraldine Mercideta	*Madison*

Miller, Godfrey James	*South Bend, Ind.*
Miller, Kenneth Charles	*Kenosha*
Miller, Leslie Graham	*Fond du Lac*
Miller, Olive Gertrude	*Kenosha*
Milliman, Ralph Albert	*Rockford, Ill.*
Milne, Mary Elizabeth	*Webster Groves, Mo.*
Moe, Lawrence Osborne	*Black River Falls*
Moeller, Arnold Henry	*N. Milwaukee*
Mohr, William Henry	*Dayton, Ohio*
Montgomery, J. Arnold	*Lake Geneva*
Moorhouse, Harry Oramel	*Lake Geneva*
Morrill, Alfred Raymond	*Aurora, Ill.*
Morrison, Russell Caldwell	*Madison*
Murphy, Everett Stephen	*Hillpoint*
Napper, Clarence Edmund	*Clinton*
Nast, Robert John	*Michigan City, Ind.*
Nehmer, Edwin Paul	*Fond du Lac*
Neuhauser, George Roy	*Pierre, S. D.*
Nitardy, Arthur William	*Verona*
O'Connell, David Charles	*Bayfield*
Oelhofen, George Sanness	*Tomahawk*
Oldenburg, Carl Shower	*Madison*
Olson, Roland Theophilus	*Briggsville*
O'Neill, Paul Faherty	*Madison*
Onsgard, Orin Kenneth	*Madison*
Otis, Grant Lyman	*Madison*
Pape, Joseph Philip	*Mondovi*
Paradies, Richard Henry, Jr.	*Cagayan, P. I.*
Parker, William Arthur	*Peoria, Ill.*
Parsons, Richard Catrow	*Madison*
Patrick, John William	*Rockford, Ill.*
Penn, Clifford LeRoy	*Fitchburg*
Petaja, John William	*Ahmeek, Mich.*
Petersen, Herbert Edward	*Kansas City, Mo.*
Picus, Roy	*Friendship*
Plettner, Vernon Maxwell	*Algoma*
Pope, William Prufrock	*Chicago, Ill.*
Poutinen Wayne Elmer	*Chisholm, Minn.*
Quinn, Philip Francis	*Chicago, Ill.*
Raeder, Frank Jacob	*Harvard, Ill.*
Ralston, Harold Earl	*Beloit*
Rapp, Erwin Harold	*Kenosha*
Reeke, George Norman	*Green Bay*
Rendigs, Paxton Diehl	*Madison*
Rentz, Fred John	*Madison*
Reyer, Richard Ralph	*Colby*
Rheins, Isabel Anita	*Milwaukee*
Rhode, Marian Adele	*Madison*
Rick, Mark Allan	*Wausau*

Roach, Theodore Byron, Jr.	*Janesville*
Rogers, John Franklin	*Lake Geneva*
Rosenholtz, William S.	*Troy, N. Y.*
Rosenthal, Stanley William	*Chicago, Ill.*
Roth, Samuel	*Beloit*
Ruffolo, Frank Lawrence	*Racine*
Rumpf, Chester Peter	*Baraboo*
Rusch, Ross George	*Reedsville*
Sauer, Fred A.	*Milwaukee*
Schlichter, Kenneth Charles	*New Holstein*
Schmidt, Raymond Henry	*Wauwatosa*
Schneider, Fred Claire	*Ft. Atkinson*
Schultz, Paul Stephen	*Reedsburg*
Schumaker, Lawrence Clair	*Milwaukee*
Scott, Morris James	*Madison*
Sholund, Carl A.	*Eveleth, Minn.*
Skillicorn, Ivanell	*Mineral Point*
Snell, Edward Chamberlin	*Detroit, Mich.*
Solon, Arthur Barry	*Watertown*
Sorenson, Vilas Klingenberg	*Madison*
Spafford, Leland Rean	*Shell Lake*
Spektor, Nathan	*Wausau*
Spielmann, Oscar Peter, Jr.	*Port Ridge, Ill.*
Spindler, Howard Leo	*Milwaukee*
Staffeld, Erwin William	*Wisconsin Rapids*
Standiford, Ifa Doran	*Milton*
Starling, Kenyon Law	*Fargo, N. D.*
Staufer, Robert Leist	*Michigan City, Ind.*
Steensland, Otis Aubrey	*Blanchardville*
Stevens, Glenn	*Melrose*
Stevens, Harold Payne	*Lancaster*
Storck, William George	*Madison*
Stutz, Gerald Lawrence	*Tomahawk*
Svinoff, Isadore Erwin	*Neillsville*
Sylvester, Selmer Arthur	*Galesville*
Temples, William Shipman	*Tulsa, Oka.*
Terman, Edward Andrew	*Beloit*
Thoma, Harry Charles	*Milwaukee*
Thoreson, Theophil Milpher	*Westby*
Thorson, Le Mont	*Westby*
Timlin, Robert James	*Phillips*
Trestrail, Grace E.	*Portland, Ore.*
Tuffley, Anna Frances	*Lancaster*
Tyle, George James	*Chicago, Ill.*
Utter, Harold Jesse	*Madison*
Vieth, Harvey Glenn	*Sparta*
Vilett, Harold Edward	*Cornell*
Voss, Myron Irving	*Chicago, Ill.*
Wagener, John Boyce	*Sturgeon Bay*

Walstead, Elliot Noble	*Madison*
Walter, Anita Louise	*Madison*
Ward, Edward Christian	*New London*
Waters, Paul L.	*South Bend, Ind.*
Webb, Cecil Greenwood	*Aurora, Ill.*
Wegner, Arthur Edward	*Tomah*
Weiner, Ruth Matilda	*Columbus*
Weiskopf, Otis Frederick	*Sheboygan*
Wesseling, William	*St. Louis, Mo.*
Wick, Louis	*Marinette*
Wilson, Joseph Odell	*South Bend, Ind.*
Winters, Ray Lawrence	*Portsmouth, Va.*
Wojta, Wilbur Wenzel	*Reedsville*
Woodstock, Willard Howard	*Madison*
Wright, Proctor Thomas	*Webster Groves, Mo.*
Zepp, Helen Myrtle	*Chicago, Ill.*
Zieman, Lydia Marie	*Edgerton*

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Course in Journalism

Adsit, Carl Clark	*Madison*
Albrecht, Daniel Calvin	*Elkhart, Ind.*
Allen, Florence Elizabeth	*Madison*
Allen, Henry	*Des Plaines, Ill.*
Andrews, Muriel Pricilla	*Chicago, Ill.*
Arnquist, Ruth Ethelyn	*Hudson*
Beals, Erwin Avery	*Randolph*
Bell, Howard J.	*Wisconsin Rapids*
Berkman, Vivi Marys	*Philadelphia, Pa.*
Beth, Elmer Frederick	*Two Rivers*
Betts, Deborah Elizabeth	*Gary, Ind.*
Biba, Carol Irene	*Muscoda*
Bickel, Melva Frances	*Fennimore*
Black, Katherine	*Baraboo*
Blair, Martha	*Terre Haute, Ind.*
Blawusch, Arthur Lorenz	*Madison*
Bohren, Lucille Grace	*Madison*
Bonniwell, Alyce Irene	*Hartford*
Boyd, Robert John, Jr.	*Lake Geneva*
Brandel, Mary Margaret	*Randolph*
Brayton, Potter	*Madison*
Brewer, Claudia Marion	*Clarksdale, Miss.*
Brewer, Minnie Elizabeth	*Clarksdale, Miss.*
Brigham, Richard Henry L.	*Evansville*
Brown, Warren Henry, Jr.	*St. Louis, Mo.*
Browning, Esther Elizabeth	*Chicago, Ill.*
Browy, Calmer Benjamin	*Marinette*
Bruce, Donald Eckert	*La Crosse*
Burroughs, Grace Stuart	*Wilmette, Ill.*

Burrows, Theodore Albert	*Montford*
Carlberg, Ruth	*Omaha, Nebr.*
Carrier, Vernon Gardner	*Essex Falls, N. J.*
Church, Edwin Sears	*Cleveland, Ohio*
Clay, Lao-Dicea Sidney	*Joplin, Mo.*
Corrigan, Jessie Elizabeth	*Milwaukee*
Dapin, Joseph	*Marion*
Dennis, Theodosia May	*Redford, Mich.*
Dick, Frank Edward	*Marshfield*
Donahue, Marguerite Mary	*Madison*
Douglas, Laura Stewart	*Milwaukee*
Eklund, Laurence Conrad	*Tomahawk*
Emmons, Mildred May	*Ladysmith*
Fleek, Helen Emerett	*Brodhead*
Frechette, George Thomas	*Wisconsin Rapids*
Gallati, George Carey	*Homewood, Ill.*
Golling, Charles Thorington	*Milwaukee*
Goodkind, Bernard Arthur	*New York, N. Y.*
Gottlieb, Olga	*Hutchinson, Kan.*
Grenzow, Daisy Blossom	*Monroe*
Griffiths, Brynlly Alwyn	*Madison*
Grover, Virginia	*Evanston, Ill.*
Halbert, Daniel Addison	*Ogema*
Hall, Valentine Francis	*Milwaukee*
Hamer, Marjorie Lelah	*Woodstock, Ill.*
Hanke, Eleanor	*Chicago, Ill.*
Hawley, Esther Mary	*Madison*
Helland, Albert William	*Madison*
Hirschfield, Annette Claire	*Duluth, Minn.*
Isenberg, Roy O.	*Baraboo*
Jenison, Edward Halsey	*Fond du Lac*
Johnson, Mrs. Grace Crawford	*Madison*
Kalish, Stanley Edward	*Sioux City, Iowa*
Kampen, Fred Carl	*Le Sueur, Minn.*
Kanouse, Allen Monroe	*Madison*
Kelley, Rachel Josephine	*Madison*
Kerney, Kenneth Charles	*Omaha, Neb.*
King, Grace Elizabeth	*Madison*
Kinney, Helen Margaret	*Washburn*
Klefeker, Maurice Watson	*Stoughton*
Koehn, Howard John	*Madison*
Koffler, Miriam Sarah	*Elkins Park, Pa.*
Krauss, Elsie May	*Toledo, Ohio*
Kynaston, Donald Drake	*Milwaukee*
Lani, Peter Chu	*Madison*
Larson, Virginia Ann	*Warren, Pa.*
Lauson, Richard H.	*New Holstein*
Legler, Lucille Mercedes	*Monroe*
Lichtenheld, Louis Gerald	*Racine*

Lowater, Donald Weldon	*Spring Valley*
McGill, Robert Alden	*Valparaiso, Ind.*
McKey, Frank Michael	*Chicago, Ill.*
Miller, Edna May	*Chicago, Ill.*
Minkow, David Nathan	*South Bend, Ind.*
O'Connell, George Earl	*Madison*
Owen, Gaylord Thompson	*Madison*
Parham, Margaret	*Madison*
Parry, Maude Iona	*Hutchinson, Kan.*
Piatt, Horace Porter	*Ft. Wayne, Ind.*
Pierard, Joseph Jacques	*Marshall, Minn.*
Pierstorff, Velva Marie	*Middleton*
Plappert, Emma Henrietta	*New Holstein*
Postal, Bernard	*New York, N. Y.*
Powell, Herbert Frederick	*Oak Park, Ill.*
Powers, Margaret Elizabeth	*Beaver Dam*
Pride, Elwyn Clinton	*McFarland*
Ragatz, Cecil Chris	*Prairie du Sac*
Richards, Roswell Stanley	*Monticello*
Rieger, Harold Ernest	*Toledo, Ohio*
Ruttedge, Lucille Emily	*Chicago, Ill.*
Schauer, Florence May	*Hartford*
Scheaffer, C. Gibson	*Kenosha*
Schlaver, Clarence Otto	*Sparta*
Schmidt, Eunice	*Warren, Ohio*
Schneider, George Gustave	*Milwaukee*
Schumacher, Lawrence Peter	*Oconto*
Serfling, Carl Julius	*Plymouth*
Sheldon, James Stanley	*New York, N. Y.*
Sidell, Billie Violet	*Madison*
Siekman, Herbert Charles	*South Bend, Ind.*
Snyder, Robert Hazen	*Pasadena, Cal.*
Spaeth, Frank William	*Salina, Kans.*
Sparks, George Lee	*Minneapolis, Minn.*
Stone, James David	*Milwaukee*
Taylor, Victor Smith	*Lake Mills*
Tenney, Rodger Kent	*Madison*
Thacher, Charles Alfred	*Zenda*
Thompson, George Trenary	*Madison*
Turner, Thomas Arthur	*Hartford*
Van Meter, Katherine Francis	*New Richmond*
Waltz, Nina Constance	*Decatur, Ill.*
Wegner, Walter G.	*Milwaukee*
Weisz, John Stanley	*Springfield, Ill.*
Wells, Marie Alice	*Monroe*
Welsh, William Thomas	*Ashland*
White, Mary Elizabeth	*La Crosse*
Wiedenbeck, Myrtle Lois	*New London*
Williams, Catherine Henrietta	*Fennimore*
Williams, Donald Ayres	*Gettysburg, S. D.*

Worthington, Frank Steele	*Corliss*
Young, Ruth Lillian	*Menasha*
Zimmerman, Louise Christine	*Hartford*

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Course in Humanities

Anderson, Alice Emerson	*Madison*
Bender, Herbert Edube	*Watertown*
Clapp, Mrs. Bertha Marmein	*Madison*
Comstock, Lena Mary	*Madison*
Foster, Winfield Clark	*Racine*
Francke, Eloise Charlotte	*Madison*
Gallagher, Nola Frances	*Madison*
Grether, Aurelia Salome	*Verona*
Harris, Harriet E.	*Antwerp, Ohio*
Hess, Dorothy Alice	*Madison*
Keeler, Marion Estelle	*Chicago, Ill.*
Peterson, Florence Edna	*Eagle*
Sinclair, Autumn Virginia	*Chicago, Ill.*
Vornholt, Paul Herman	*Madison*

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General Course (Bachelor of Philosophy)

Amundson, Alvin Roy	*Elk Mound*
Aune, Eleanor Madeline	*Redwood Falls, Minn.*
Bacon, Barbara Dame	*Salt Lake City, Utah*
Bates, Aubrey Ashcraft	*Madison*
Bick, Kenneth Francis	*Janesville*
Brunkow, Claude Eugene	*Madison*
Carpenter, Helen Grace	*Elkhart, Ind.*
Connor, George Carley	*Madison*
Cummins, Wilfred Dean	*Columbus, Ohio*
Dikeman, Clifford Stephen	*Farmington, Ill.*
Espeseth, Edmund Corneil	*Eagle River*
Farnsworth, Virginia Marjorie	*Merrimac*
Faust, Eustace Whitney	*Milwaukee*
Fisher, Marion Helen	*Jefferson*
Friess, Albert George	*Rice Lake*
Gardner, Theodore John	*Chicago, Ill.*
Hansbrow, Armand Emmett	*Beloit*
Helmus, Agnes Elizabeth	*Madison*
Herren, Robert Nathaniel	*Oswego, Ill.*
Hill, James Boyd	*St. Louis, Mo.*
Hunn, William Henry	*Racine*
Johnson, Luverne Clayton	*Madison*
Jones, Russell William	*Spring Green*
Lake, Thomas Peters	*Chicago, Ill.*
Lindsay, Gordon Rowley	*Milwaukee*
Lynch, Sylvia Florence	*Janesville*

McCaffery, Carlton James	*Madison*
McCord, Frederick Charles	*Nevada, Iowa*
McGinnis, Charles English	*Kansas City, Mo.*
Merriman, Fayette Lewis Wells	*Beloit*
Miller, Rice Wooll	*Hillsboro, Ill.*
Neumeister, Leslie Edward	*Chicago, Ill.*
Ostermeyer, David Wendell	*Wisconsin Rapids*
Owen, George Colville	*Racine*
Parsons, Rolland Webster	*Martintown*
Peters, Frank Queen, Jr.	*Chicago, Ill.*
Piper, Roland Arthur	*Madison*
Porter, Edward Clarke	*Hubbard Woods, Ill.*
Reuland, Lawrence Paul	*Reedsburg*
Rogers, Leo Clement	*Milwaukee*
Rosa, Delaphine Grace	*Madison*
Scheinpflug, Harry Leo	*Boscobel*
Schwarze, Herbert Herman	*Milwaukee*
Smith, Lavern Pritchard	*St. Charles, Ill.*
Stadler, Jacob Charles	*Manawa*
Stone, Marshall Lewis	*Milwaukee*
Straubel, Austin August	*Green Bay*
Stuessy, Herbert Henry	*Brodhead*
Titus, Marjorie Marcella	*Fond du Lac*
Topp, Charles Anthony	*Madison*
Walsh, Victor Raphael	*Madison*
Wheeler, Don David	*Madison*
Williams, Harold Fish	*Ladysmith*
Wilson, Douglas Gordon	*Oak Park, Ill.*
Wold, Orin Wilbur	*Minneapolis, Minn.*

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Course in Chemistry

Abrams, Vera	*Madison*
Balazs, Gabriel George	*Racine*
Ballard, Clara Louise	*French Lick, Ind.*
Cavanaugh, Thomas Hession	*Minneapolis, Minn.*
Dragewske, Carl Emil	*Menasha*
Emig, Frederick Joseph	*Wellsburg, W. Va.*
Fonyo, Zoltan Kresimir	*Chicago, Ill.*
Fuka, Lawrence John	*Manitowoc*
Gendler, Paul Leon	*Mankato, Minn.*
Germann, John, Jr.	*Monroe*
Gustafson, Clifford Ernest	*Rockford, Ill.*
Harris, Arthur J.	*Superior*
Heise, James Herbert	*Janesville*
Hopkins, Ervin William	*Randolph*
Klockow, Robert Frank	*Jefferson*
Krueger, Clarence John	*Milwaukee*
Long, Fred Herman	*Markesan*

Marks, Helen Mary	*Madison*
Metcalf, Frank Wayland	*Spring Green*
Meyer, Gerhard Carl	*Reedsburg*
Nickel, Alfred Reinhardt	*Whitefish Bay*
Ode, William Harlan	*Baraboo*
Perisho, Allan Eugene	*Paris, Ill.*
Pruess, Louis Martin	*Milwaukee*
Sander, Walter Carl	*Green Bay*
Schenk, Helen Clara	*Madison*
Ver Bryck, James Leslie	*Fond du Lac*
Weiss, George Archibald	*Madison*
Wernitznig, Edward Rudolf	*Milwaukee*
Westerlund, Gilbert Gustaf	*Iron River, Mich.*
Wierman, Ervin Siewert	*Waldo*
Wogan, Jack Henry	*Darlington*
Woodington, Marc Wendell	*Cassville*
Worden, James Allen	*Antigo*

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Chemistry-Commerce Course

Cole, Harold Jesse	*N. Fond du Lac*
Gebhardt, George Thrall	*Racine*
Hogan, Harland Orville	*Madison*
Hudson, Leslie John	*San Nicholas, Argentina, S. A.*
Jager, Walter William	*Duluth, Minn.*
Jenck, Jack Francis	*Mineral Point*
Kindschi, Leslie George	*Madison*
Kreuz, Robert Louis	*Menominee*
Laughlin, Llewellyn Ball	*Poynette*
Luberg, Kenneth Carl	*River Falls*
Murdoch, William Arthur	*Chicago, Ill.*
Normington, Frank Henry, Jr.	*Marshfield*
Pollworth, Clarence William	*Milwaukee*
Rooney, John Magnus	*Madison*
Sadler, Lloyd Stanley	*Janesville*
Sapiro, Alfred Jack	*Milwaukee*
Snavely, J. Walter	*Milwaukee*
Thompson, Harold L.	*Baraboo*
Weideman, Elmer Christian	*Columbus*
Whalen, John Ivan	*Albany*
Zilch, Carl J.	*Madison*
Zola, John Charles	*Two Rivers*

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Course in Physical Education
(School of Education)

Abrams, Clarice Ann	*Calumet, Mich.*
Armstrong, Mary Catherine	*San Jose, Cal.*

Barnum, Rolland A.	*Evansville*
Bigelow, Marion Emily	*Atlantic City, N. J.*
Butler, Mabel Rose	*Memphis, Tenn.*
Carter, Emmadora	*La Crosse*
D'Amour, Madalyn Rose	*Rapid River, Mich.*
Dodge, Dorothy Janette	*Valparaiso, Ind.*
Ekdahl, Evelyn Marguerita	*Geneva, Ill.*
Faithorn, Edith Louise	*Wauwatosa*
Filson, Evelyn	*Louisville, Ky.*
Follstad, Harriet Marie	*Elcho*
Fosshage, Esther Agnes	*Mt. Horeb*
Fouts, Florence Fern	*Lake Forest, Madison*
Frazier, Helen Elizabeth	*Chicago, Ill.*
Fritz, Lorraine Gladys	*Chippewa Falls*
Gabel, Gamilla Dorothy	*Chicago, Ill.*
Harris, Aurelia Isabel	*Kansas City, Kans.*
Harris, Ora Lydia	*Yorkville, Ill.*
Hayes, John Arthur	*Duluth, Minn.*
Henry, Fae Alberta	*Beloit*
Hoffmann, George John	*Watertown*
Hughes, Genevieve Folsome	*Janesville*
Hughes, Jimmie Ayres	*Louisville, Ky.*
Hupprich, Mabel	*Madison*
Ingalls, Douglas Clark	*Pepin*
Inge, Willey Creagh	*Mobile, Ala.*
Jagodnigg, Fleeta Catherine	*Madison*
Johns, Ruth Frances	*Milwaukee*
Johnston, Rosalynde Margaret	*St. Elmo, Ill.*
Jorris, Edith Gertrude	*La Crosse*
Kirby, Edward Nelson	*Montreal*
Knauf, Margaret Louise	*Sheboygan*
Kurz, Rosallia	*Louisville, Ky.*
Lawrie, Derrel E.	*Auburndale*
Lehmann, Marguerite Otilie	*Blue Earth, Minn.*
Markham, Muriel Gertrude Doris	*Beaver Dam*
Martell, Francis Richard	*Two Rivers*
Meyer, Berneice Margaret	*Hixton*
Olson, Herbert Milton	*Racine*
O'Neal, Naomi Julia	*Port Arthur, Tex.*
Pease, Thomas Willey	*Lake Mills*
Peterson, Harriet Louise	*Ladysmith*
Popelka, Blanche Anna	*Cicero, Ill.*
Praxl, Hannah Emma	*Chicago, Ill.*
Schlacks, Dorothy Catherine	*Chicago, Ill.*
Schlender, Catherine Millicent	*Austin, Minn.*
Schmitz, Eugenia Leonie	*Milwaukee*
Schrader, Helen Veronica	*Pueblo, Col.*
Schwarz, Marguerite Marie	*Freeport, Ill.*
Shanks, Eunice Katherine	*Canton, Ohio*

Skoglund, Harvey Chester	*Superior*
Solbraa, Burney Anton	*Stoughton*
Sorenson, Theodore Nordal	*Stoughton*
Tangen, Einar	*Two Rivers*
Traynor, Katherine Gladys	*Milwaukee*
Vasey, Florence Mabelle	*Menomonie*
Wrend, Joseph	*Madison*

Course in Applied Arts
(School of Education)

Aabele, Thelma Karine	*Madison*
Amon, Martha Ruth	*Sparta*
Bailey, John Anthony	*Milwaukee*
Barton, Marjorie Lillian	*Madison*
Bechtel, Anita Alma	*Milwaukee*
Briggs, Emma Zona	*Muscoda*
Burgeson, Anona Martine	*Portage*
Dengel, Bernice Edna	*Madison*
Dine, Volunta Anna J. A.	*Minster, Ohio*
Gallagher, Rose Margaret	*Madison*
Gaterman, Laura Gertrude	*Manitowoc*
Geffert, Lucile Dorothy	*Madison*
Goldman, Edith Lucile	*Madison*
Gray, Richard Irving	*Decatur, Ill.*
Grebe, Clara Ernestine	*Waupun*
Gregory, Dorothy Emma	*Minneapolis, Minn.*
Hancock, Kathryn Elizabeth	*Madison*
Heimerl, Flavia Mona	*Jefferson*
Himmelfarb, Samuel	*Milwaukee*
Hornaday, Mary Louise	*Indianapolis, Ind.*
Knox, George Washington, Jr.	*Oklahoma City, Okla.*
*Larsen, Thea Marie	*Madison*
Lewis, Sara Ann	*Madison*
Mead, Ralph Henri	*Merrill*
Morrison, Muriel Margaret	*Morrisonville*
Murphy, Paul Francis	*Rockford, Ill.*
Nicholson, Ida Olivia	*Dows, Iowa*
Norris, Edith Daphne	*La Moille, Ill.*
Oetjen, Dorothy Louise	*Williams Bay*
Pruitt, Vesta Matthews	*Bainbridge, Ind.*
Puelicher, Lucile Marie	*Madison*
Rhode, Richard Masson	*Madison*
Romes, Christopher	*Iowa City, Iowa*
Sinaiko, Hazel Isabel	*Madison*
Smith, Lucy Carolyn	*Madison*
Stondall, Alice Maudt	*Madison*

*Died January 2, 1924

Trachte, Esther Flora	*Madison*
Troemel, Gertrude Frances	*Madison*
White, Helen Mae	*Wilmette, Ill.*
Williams, Mary Catherine	*Madison*
Yeo, Richard S.	*Milwaukee*

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Course in Industrial Education
(School of Education)

Divers, Langdon Pierce	*Fond du Lac*
Kroening, Harry Carl	*Lancaster*

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Adult Special Students

Ambler, Kirby Pardee	*Chicago, Ill.*	L.S. Freshman
Ault, Aileen Cecilia	*Houston, Texas*	L.S. Freshman
Barden, Lawrence Andrew	*Madison*	C.C. Sophomore
Behmer, Lisa Hildegarde	*Oak Park, Ill.*	C.J. Freshman
Brandmeir, Frank Lawrence	*Portland, Ore.*	C.C. Sophomore
Boy, Carl Henry	*Madison*	L.S. Freshman
Buellesbach, Walter Henry	*Madison*	L.S. Freshman
Bullock, Arthur Adelbert	*Madison*	L.S. Freshman
Byington, Josephine Wilhelmine	*Madison*	C.J. Freshman
Campbell, Elizabeth Preston Allen	*Owings Mills, Md.*	L.S. Freshman
Carey, Edwin Blake	*Madison*	L.S. Freshman
Coates, Kenneth	*Neenah*	C.C. Junior
Collins, Adele Esmerald	*Milwaukee*	C.J. Freshman
Conklin, Catherine Gertrude	*Chicago, Ill.*	L. S. Freshman
Conlin, Russell Joseph	*Madison*	L.S. Freshman
Corbett, Stratford Francis	*Milwaukee*	L.S. Freshman
Culver, Elmer Thomas	*Madison*	L.S. Freshman
Detchon, Carl Alfred	*Youngstown, O.*	L.S. Freshman
Dewey, Ivah Lorene	*Mather*	L.S. Freshman
Echtner, John Dillon	*Green Bay*	C.C. Freshman
Farris, Don Milton	*Madison*	C.C. Freshman
Feldman, Harry	*New York, N. Y.*	L.S. Freshman
Fuhrman, Leah Reysa	*Kenosha.*	L.S. Freshman
Garlin, Simon Alexander	*Glens Falls, N. Y.*	L.S. Freshman
Gifford, Selene	*Marion, Mass.*	L.S. Sophomore
Goddard, Kenneth W.	*Dane*	C.C. Freshman
Gopadze, Illarion	*Milwaukee*	L.S. Freshman
Hawkins, Grace Milner	*Madison*	L.S. Freshman
Jones, Robert Edward	*New Haven, Ct.*	L.S. Freshman
Kailin, Dorothy	*Madison*	L.S. Sophomore
King, Florence	*Louisville, Ky.*	L.S. Freshman
Kruse, Elizabeth	*Madison*	L.S. Freshman
Lablanche, Marguerite Reine	*Madison*	L.S. Freshman
Longfield, Joseph John se	*Madison*	Ind. Ed. Senior

Lord, Arthur Bertram	*Milwaukee*	L.S. Freshman
McCarville, Helen Adelaide	*Darlington*	L.S. Freshman
McFadden, Minnie Bell	*Madison*	L.S. Freshman
Madden, Walter William	*Green Bay*	C.C. Freshman
Mettenet, Jeanne	*Chicago, Ill.*	L.S. Freshman
Morris, William Charles, Jr.	*Ashland*	C.C. Freshman
Mosenge, Willard Severan	*Racine*	L.S. Freshman
Mueller, Ellsworth Herman	*Madison*	L.S. Freshman
Mundstock, Edward Henry	*Chaseburg*	L.S. Freshman
Nehring, Erna Minnie	*Milwaukee*	L.S. Freshman
Nichols, Ella Henrietta	*Rochester, N. Y.*	L.S. Freshman
Raddant, Louis August	*Shawano*	C.J. Sophmore
Raef, Mildred Jacqueline	*Milwaukee*	L.S. Freshman
Ryan, Margaret Catherine	*Madison*	L.S. Freshman
Sauger, FredA.	*Egg Harbor*	Phys.Ed. Freshman
Shier, Harold Bernard	*Pulaski*	Gen.C. Senior
Smith, Jean Hope	*Chicago, Ill.*	L.S. Freshman
Smith, Vera	*Madison*	L.S. Freshman
Stanton, Bessie	*Elroy*	L.S. Freshman
Todd, Ralph Herman	*Stevens Point*	Gen.C. Freshman
Trapp, Frank Chester	*Waterloo*	L.S. Freshman
Vezina, Paul Westcott	*Escanaba, Mich.*	L.S. Freshman
Watson, William Edward	*Fond du Lac*	Gen.C. Freshman
Weingaertner, Erna Margaret	*Belleville, Ill.*	C.J. Freshman
Zaturenska, Marya Alexandrova	*Madison*	L.S. Freshman
Ziemer, Elizabeth Mary	*South Milwaukee*	C.C. Freshman

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Four Year Course in Pharmacy

Seniors

Aagesen, Nicholas Schuyler	*Milwaukee*
Beck, Seigfred Ernest	*Wabeno*
Beckerman, Russell Meyer	*Milwaukee*
Delfosse, Joseph Thompson, Jr.	*Chicago, Ill.*
Downie, Raymond Richard	*Madison*
Freiburger, Frank A.	*Milwaukee*
Lounsbury, Harry Edward.	*Madison*
Meyer, Gladys Faye	*Prairie du Sac*
Michels, Hugh Conrad	*Chilton*
Phillips, Arthur G.	*Chicago, Ill.*
Schwartz, Sam	*Madison*
Taylor, Palmer William	*Stevens Point*
Tilford, Edgar Lockhard	*Martinsville, Ind.*
Zimmermann, Florence Susanna	*Peoria, Ill.*

Juniors

Bobb, Roma Edgar	*McHenry, Ill.*
Braun, Herbert Adolph	*Milwaukee*
Hering, Kathleen Marion	*Shell Lake*
Muenzberg, Paul Henry, Jr.	*Milwaukee*
Shapiro, Alvin	*Milwaukee*
Uhl, Arthur Hoyt	*Galesville*

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Sophomores

Casely, Robert Ellsworth	*Marengo, Ill.*
Hanson, Andrew Leonard	*Chippewa Falls*
Hayes, James Patrick	*Madison*
Lockwood, George Shellington	*Marengo, Ill.*
Lundholm, Stanley Victor	*Rockford, Ill.*
McCain, John Pinckney	*Devils Lake, N. D.*
Meenk, Allan Gerald	*Waupun*
Murphy, Howard J.	*Delavan*
Pollack, Saul Kenneth	*Milwaukee*
Swoboda, Agnes Regina	*Antigo*
Weckmueller, Willard Christopher	*Milwaukee*
Weeman, King Henry	*Shawano*

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Freshmen

Amidon, Elva Laidlaw	*Granton*
Freudenberg, Karl Waldemar	*Wauwatosa*
Goldberg, Myron Max	*Stevens Point*
Harwood, Roderick Theron	*Milwaukee*
Jehle, Paul Ludwig	*Elgin, Ill.*
Knapp, John Adam	*Park Falls*
Leonard, Orville Chester	*Kenosha*
McCarthy, Lawrence Elroy	*Beloit*
Patton, Roberta Ernestine	*Byesville, Ohio*
Perlman, Jacob Lincoln	*Sheboygan*
Plank, Lloyd Thomsen	*Fond du Lac*
Voigt, John Louis	*Appleton*

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Two Year Course in Pharmacy
Second Year

Berner, Henry Lewis	*Antigo*
Brunner, Edmund Joseph	*Durand*
Damsteegt, Lester John	*Brandon*
Forberg, Serena Elizabeth	*Hubbard Woods, Ill.*

Kasson, Merritt Theron	*Laona*
Kielma, Sigmund Florian	*Milwaukee*
Klinkert, William Charles	*Stevens Point*
Kuethe, Harold August	*Marshfield*
Lange, Edward Walter	*Weyauwega*
Meagher, Paul Eldridge	*Mattoon*
Olson, Clifford Otto	*Madison*
Primakow, Jack Isadore	*Milwaukee*
Roberts, Glenn Ryle	*La Crosse*
Rosenberg, Edwin Leo	*Milwaukee*
Shearer, Arlie Everette	*Marengo, Ill.*
Trachte, Leonard Nathaniel	*Madison*
Weiss, Richard Glenn	*Madison*
Weix, Marzell Joseph	*Colby*

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First Year

Bienfang, Ralph David	*Jefferson*
Bryne, Robert Michael	*Kenosha*
Decker, Joseph Frank	*Cato*
Edison, Marvin Aaron	*Eleva*
Erickson, Walter Clarence	*Melvina*
Errickson, Buel Carter	*Soldiers Grove*
Francis, Floyd Gregor	*Madison*
Giebink, Allen Thomas	*Waupun*
Ginsberg, Labien	*Antigo*
Grandy, Carlos Lewis	*Black Creek*
Henning, Francis Louis	*Cambridge*
Hoelzel, Philipp Henry	*Watertown*
Hogan, James Elliott	*Ashland*
Hoppenyan, Edward Lester	*Ashland*
Hutchison, Clarence Edward	*Waukegan, Ill.*
Kimball, Evan Everett	*Marion*
Kremer, William Edward	*Fond du Lac*
Lamont, James Malcolm	*Madison*
Langsten, Milton	*West Allis*
Major, Francis Willard	*La Farge*
Moore, Milton Woodring	*Orangeville, Ill.*
Murphy, William Jermias	*Hudson*
Myra, Harland Alexander	*Ft. Atkinson*
Nye, Herman Francis	*McHenry, Ill.*
O'Neil, Claude Timothy	*Kilbourn*
Pederson, Adolph Martin	*Tunnel City*
Riley, Leslie James	*Ashland*
Rogers, Donald Earl	*Crandon*
Sampson, Jack Kitto	*Ashland*
Schaefer, Robert Ernest	*Milwaukee*
Schulz, Herbert Fred	*New London*

Schumacher, Russell Franklin	*Amery*
Shagam, Harry	*Chicago, Ill.*
Smith, Ralph Hayden	*Evansville*
Stoll, George Allen	*Sharon*
Stoneall, Rex Milferd	*Zenda*
Swan, Floyd Ralph	*Ladysmith*
Tobin, Lowell Casper	*Mellen*
Weinberg, Louis Robert	*Superior*
Werner, Harold Willard	*New London*

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Adult Special—Two Year Course

Golmgefsky, Hugo George	*Stockbridge*	First Year
Hohn, August Carl	*Lyndhurst*	First Year

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SCHOOL OF MUSIC

Seniors

Belscamper, Charlotte Marion	*St. Charles, Minn.*
Dieruf, Gladys Irene	*Madison*
Duncan, Erma Leona	*Madison*
Erbe, Gertrude Miriam	*Green Bay*
Glynn, Maude Elizabeth	*Superior*
Hanson, Ethel Irene	*Rio*
Jones, Grace Mildred	*Yonkers, N. Y.*
Mitchell, Mira Louise	*Madison*
Nelson, Esther B.	*Edgerton*

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Juniors

Bartlett, Cora Louise	*Eau Claire*
Burgy, Marion Elizabeth se	*Monticello*
Burnsted, Leah May	*Chetek*
Church, Norval Luther	*Omaha, Neb.*
Cockrell Alice Marjorie se	*Chicago, Ill.*
Hertzberg, Clara Cole	*Sheboygan Falls*
KinCannon, Zelma Marian	*Madison*
Netherland, Mary Gertrude se	*Perry, Mo.*
Plumlee, Grace Mitchell	*Brooklyn*

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Sophomores

Clifford, Anna Margaret	*Racine*
Hightower, Rosalind	*Peoria, Ill.*
Kern, Dorothy Henrietta se	*Sheboygan*
Klovstad, Marie	*Port Wing*

Maclean, Constance Patricia	*Sunnyside, Wash.*	
Madden, Elizabeth Andrews se	*Ridgewood, N.J.*	
Netzow, Anita Elizabeth	*Milwaukee*	
Odell, Roberta M.	*Madison*	
Reid, Katharine Calvert	*Wellsburg, W. Va.*	
Rooney, Rosemary Ursula	*Madison*	
Soldan, Lillian Caroline	*Madison*	
Vornholt, Dan Emerson	*Madison*	
Wesenberg, Norma Elsie	*Madison*	
Zander, Berenice Augusta	*Two Rivers*	—14

Freshmen

Arnold, Matie Louise	*Madison*	
Burgess, Helen Josephine se	*Madison*	
Chase, Marian Ruth	*Madison*	
Christians, Evelyn Ruth	*Johnson Creek*	
Connett, Emily Mellin	*St. Joseph, Mo.*	
Davison, Lura Mabel	*Waupun*	
Dixon, Judith Edwards	*Columbus*	
Drake, Eloise Jean	*Mendota*	
Euper, Gertrude Cecelia	*Watertown*	
Franey, Kathryn Elizabeth	*Madison*	
Goodrich, Mildred Jane	*Madison*	
Hoffman, Usona	*Madison*	
Johns, Alice Lucille	*Dodgeville*	
Johnson, Norma Esther	*Beloit*	
Jones, Paul George	*Black River Falls*	
Jordan, Elizabeth Anne	*Oshkosh*	
Knudsen, Edith Joanne	*Kenosha*	
Kraege, Helen Ernestine	*Madison*	
McPherson, David Franklin	*Carthage, Mo.*	
Meyne, Gertrude Marie	*Hortonville*	
Miller, David	*Eau Claire*	
Miller, Ray Carl	*Madison*	
Pelton, Marion Herfort	*Madison*	
Perssion, Ruth	*Milwaukee*	
Rachlin, Marjorie Mildred	*Madison*	
Roedell, Louise May Belle	*Dubuque, Iowa*	
Schultz, Esther Elizabeth	*Madison*	
Soldan, Fredora Ann	*Madison*	
Tappins, Ann Celeste	*Madison*	
Torkelson, Helena Christina	*Merrill*	
Vedder, Marian Mallory	*Clinton*	
Volkman, Elizabeth Jane se	*Eau Claire*	
Wheeler, Carol Leona	*Viroqua*	
Winston, Alice	*Highland Park, Ill.*	
Wood, Pearl Viola	*Madison*	
Wooster, Eleanor Rosa	*Madison*	
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Supervisors' Course

Second Year

Biehusen, Myrtha Joan se	*Sheboygan Falls*
Crary, Ida Mae se	*Streater, Ill.*
Gasser, Katherine Elizabeth se	*Sauk City*
Gray, Maude Alena	*Devils Lake, N. D.*
Greeley, Mary Catherine se	*New Richmond*
Lengst, Norma Barbara se	*Prairie du Chien*
McKay, Ruth Marie	*Wausau*
Mack, Dorothy Elizabeth	*Ft. Atkinson*
Patterson, Genevieve May se	*Evansville*
Peterson, Mabel Nellie se	*Florence*
Sneathen, Margaret J. se	*Baraboo*
Weaver, Pearl Lillian se	*Davenport, Iowa*

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First Year

Anderson, Frances Lucille	*Viroqua*
Anderson, Mildred Ellen se	*Tomah*
Cole, Leota Belle	*Marshall*
Crocker, Dorothy Adalaide se	*Spooner*
Elston, Ruth Janet se	*Muscoda*
Glau, Leone Claire se	*Charter Oak, Iowa*
Gress, Alice Strelow se	*Davenport, Iowa*
Hartwig, Ramona Luella se	*Orangeville, Ill.*
Hield, Mabel Marine	*Madison*
Hunter, Lucy Elizabeth se	*Madison*
Irish, Marie Verona se	*Madison*
Keller, Margaret Lillian se	*Baraboo*
Latta, Dora May se	*Clinton*
Leamy, Eileen Teresa se	*Bloomington*
MacGregor, Beatrice Merle se	*Madison*
Meiklejohn, Thelma Kathleen se	*Waupun*
Miller, Gladys Dorothy se	*Florence*
Naismith, Catherine Nairne se	*Oregon*
Parr, Helen Elizabeth se	*East Cleveland, Ohio*
Rabe, Gladys Wilma	*Lake City, Minn.*
Salter, Rhoda Elinor se	*W. DePere*
Slightam, Byrnina Denise se	*Madison*
Thompson, Alma Irene se	*Lancaster*
Wheeler, Opal Irene	*Superior*
Wienke, Lucile Gertrude	*Beloit*
Wilson, Evelyn Gertrude	*Superior*

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Adult Specials

Hardy, Ruth Asenath se	*Waukesha*	Mu.SU. First Year
l'Hommedieu, Dorothy Kellogg	*Madison*	Mu.Su. Sophomore

Metcalf, Leon Vinnedge	*Marysville, Wash.*	Mu.Su. Soph.
Ritter, Flora	*Madison*	Mu.Su. First Year

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Unclassified

Damon, Kenneth Finch	*Madison*
Dudley, Ruth Jane	*Madison*
Gibbon, Martha, B.A.	*Madison*
Harmon, Lloyd Walter	*Belleville*
Hay, Frances	*Beloit*
James, Mary Ventura	*Madison*
Kay, Arthur	*Madison*
Moore, Mae Louise	*Madison*
Rice, Rosamond E.	*Madison*
Riley, Juta L.	*Madison*
Ryan, Marion E.	*Wausau*
Ryan, Winefrid	*Wausau*
Scott, Lucile	*Maywood, Ill.*
Sister Mary Cordula	*Madison*
Thomas, Hattie Boucher	*Peirce City, Mo.*
Wengel, Raymond William	*Madison*
Wood, Mrs. Bird D.	*Madison*

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MEDICAL SCHOOL

Second Year

Bachhuber, Alphons Eugene ls	*Mayville*
Bassuener, Reynold Olive, B.A. g	*Sheboygan Falls*
Beglinger, Harold Fred, B.S. g	*Oshkosh*
Bennett, William Harold ls	*Ft. Atkinson*
Birnbaum, Frank Albert ls	*La Crosse*
Brachman, Louis ls	*Milwaukee*
Brooks, Arbie Le Roy ls	*Madison*
Canuteson, Ralph Irving ls	*Madison*
Carns, Marie Louise, B.A. g	*Knoxville, Ill.*
Chapman, Edwin James ls	*Oshkosh*
Demetropulos, Nicholas Demetrius	*Madison*
Dishmaker, Melvin Charles, B.A. g	*Algoma*
Dodd, John Morris ls	*Ashland*
Evenson, Earl E. ls	*Antigo*
Fredrick, Harry Yoman ls	*Westfield*
Gibson, Douglas Nelson ls	*Cumberland*
Gray, Rodney Jones ls	*De Forest*
Guy, Emmett Frank ls	*Milwaukee*
Hannon, Theodore R., B.A. g	*Madison*
Heath, Harold John ls	*Madison*

Herrman, Roy Frederick ls	*Sparta*
Hertzman, Alrick Brynhjoff, B.A. g	*Ashland*
Hindes, Herbert John ls	*Ableman*
Hipke, Malcolm Maynard ls	*Milwaukee*
Hipple, Frances Wardlow ls	*Madison*
Jenkinson, David Lester ls	*Minocqua*
Kaderabek, Erwin Joseph ls	*Manitowoc*
Kantor, Jennie ls	*Beloit*
Koepcke, Gerald Meinhardt ls	*Madison*
Krohn, Robert Tollack ls	*Black River Falls*
Kundert, Elizabeth, B.S. g	*Monroe*
Lampman, Harold Heath, B.A. g	*Madison*
Landa, Julio Felix ls	*Lima, Peru, S. A.*
Larsen, Erling Noer ls	*Madison*
Lawrence, Hans Will, B.A. g	*Madison*
Levitt, George ls	*Phillips*
Liebermann, Albert Bellack ls	*Watertown*
Lieberman, Ben ls	*Milwaukee*
Luidens, Henry ls	*Holland, Mich.*
McDonald, John Edwin ls	*Madison*
Metcalf, Ralph J. ls	*Spring Green*
Meyer, Ovid Otto ls	*Rosholt*
Nesbit, Mark Edwin ls	*Pleasantville, N. Y.*
Oatway, William Hanlon ls	*Waukesha*
Outhouse, Alice Irene ls	*Madison*
Poser, Edward Falk ls	*Columbus*
Randolph, Howell Sheppard, B.A. g	*Milton*
Rathert, Charles Edward ls	*Chilton*
Ritchie, Gorton ls	*Evanston, Ill.*
Robbins, Holden John ls	*Madison*
Rowley, James Arthur ls	*Wausau*
Ruffolo, Anthony Frank ls	*Racine*
Schacht, Fred William, B.S. g	*Racine*
Schacht, Roland John, B.S. g	*Racine*
Shapiro, Lazare Melvin ls	*Madison*
Smith, C. Richard, B.A. g	*Superior*
Smith, Theodore Jonathan ls	*Tomah*
Sommer, Arno William ls	*Sheboygan*
Spittler, August Wesley ls	*Fountain City*
Sullivan, Samuel John ls	*Madison*
Sumner, Willard Carlyle ls	*Madison*
Tallmadge, Guy Kasten, B.A. g	*Madison*
Tigay, Clara Deborah, B.S. g	*Madison*
Trautmann, Milton ls	*Appleton*
Walker, Howard McKinley ls	*Madison*
Weed, Linton Gilmore, B.S. g	*Madison*
Whitmer, Ralph Glenn, B.S. g	*Oskaloosa, Iowa*
Wilson, John Allen, B.A. g	

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First Year

Anderson, Ruth ls	*Milwaukee*
Baldwin, Raymond Matthew ls	*Beloit*
Berg, George Oscar ls	*Madison*
Bloemendal, Willard Bernard ls	*Holland, Mich.*
Breister, Benjamin Walter ls	*Fond du Lac*
Brindley, Emma Dowling ls	*Boscobel*
Burke, Charles Francis ls	*West De Pere*
Burke, Mead, B.A. g	*Chicago, Ill.*
Chesky, George Herman ls	*Milwaukee*
Chorlog, John Ingolf ls	*Madison*
Coyne, James Howard ls	*Madison*
De Nosaquo, Norman Victor ls	*Milwaukee*
Dewarzeger, Victor Theodore ls	*Green Bay*
Eagleburger, Lawrence Sidney ls	*Madison*
Elliott, William ls	*Madison*
Elsom, Kendall Adams ls	*Madison*
Emanuel, Karl William ls	*Shawano*
Emery, Myra, B.A. g	*Madison*
Engelmann, Victor Emil ls	*What Cheer, Iowa*
Erickson, Milton Hyland ls	*Lowell*
Eschweiler, Paul ls	*Madison*
Faletti, Anthony Joseph ls	*Spring Valley, Ill.*
Feldman, Samuel Snow ls	*Madison*
Finner, Lucy Louise, B.S. g	*Arcadia*
Foucek, Bohumil ls	*Berwyn, Ill.*
Grab, John Amandus ls	*Manawa*
Hatfield, Margaret Ellen ls	*Madison*
Hellebrandt, Frances Anna ls	*Oak Park, Ill.*
Henderson, Napier Ambrose ls	*Madison*
Hendrickson, Herman Stewart ls	*Black River Falls*
Johnson, Vincent Clifton ls	*Madison*
Jones, Ralph Earl ls	*Plymouth*
Keck, Everett Blaine ls	*Long Beach, Cal.*
Knudson, Joel William ls	*Galesville*
Kojis, Ferdinnant George ls	*Milwaukee*
Kriz, George Alan ls	*Madison*
Kuhn, Harry Albert ls	*Madison*
Kurtz, Chester m., B.A. g	*Madison*
Lins, Beatrice Martha ls	*Spring Green*
Lipman, William Harrison ls	*Antigo*
Long, Chester William ls	*Stanley*
Ludden, Raymond Horace ls	*Bloomington*
McGreave, Frank Xavier ls	*Shullsburg*
McNair, E. Ralph ls	*Brodhead*
Marsden, Wendell Herbert ls	*Fennimore*
Mason, Frank Newton ls	*Milwaukee*
Millard, Allen La Mont ls	*New London*

Milliren, Russell Edward ls	*Stockholm*
Morrison, John Taylor ls	*Owensboro, Ky.*
Munro, Jeannette, B.A. g	*Princeton, N. J.*
Noer, Rudolf Juul ls	*Wabeno*
Packard, John Sanderson ls	*Rhinelander*
Paull, Roscoe Alton ls	*Ridgeway*
Perrodin, Chester Alexander ls	*Wisconsin Rapids*
Portman, Raymond Joseph ls	*Ladysmith*
Prehn, Douglas Theodore ls	*Wausau*
Ralph, Leland Paul ls	*Cuba City*
Rathert, Burton Stewart ls	*Chilton*
Reay, George Daniel ls	*La Crosse*
Rekstad, Julius Edward ls	*Eau Claire*
Richards, Raymond Randolph ls	*Chetek*
Rowe, Richard Lawrence ls	*Hibbing, Minn.*
Rydell, Ellwood Otto ls	*Superior*
Sander, Oscar A. ls	*Madison*
Schoofs, Gregor Elmer ls	*Fond du Lac*
Senn, Milton J. E. ls	*Madison*
Shaw, Gerald William ls	*Waunakee*
Simon, Harry ls	*New York, N. Y.*
Skolas, Marcus ls	*R. D. 2*
Spooner, Alexander Dwight ls	*Lu Verne, Iowa*
Staley, Kate, B.A. g	*Springfield, Ohio*
Steen, Reginald Reed ls	*West Bloomfield, N. Y.*
Sterling, Russell Rhea ls	*Stanley*
Supernaw, Jack Shores, B. S. g	*Charlevon, Mich.*
Taylor, Arthur Chandler, B.A. g	*Madison*
Teschan, Rudolf Arnold Jr. ls	*Milwaukee*
Thiel, Wilferd Ardell ls	*Marshfield*
Thoeny, Oscar Walter ls	*Fountain City*
Thompson, Robert Clendenning ls	*St. Croix Falls*
Tressler, Willis Latanner ls	*Madison*
Vander Kamp, Harry ls	*Holland, Mich.*
Werrell, William Alexander ls	*Madison*
Wheelihan, Robert York ls	*Duluth, Minn.*
Willey, Howard Elsworth ls	*Lake Mills*
Winston, Thomas Mumford ls	*Highland Park, Ill.*
Wirig, Marres Harold ls	*Antigo*
Woods, Daniel Lindley ls	*Madison*
Zaun, John Joseph ls	*Milwaukee*
Zimmermann, Felix Herman ls	*Watertown*

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COLLEGE OF ENGINEERING

Seniors

Addington, Harold	*Willow River, Minn.*	M.E.
Alberts, Harry Carl	*Milwaukee*	M.E.
Amundson, Helmer Clarence	*Rio*	C.E.
Andreae, Stephen Carl	*Wauwatosa*	*E.E.*
Anthony, Herman Russell Chidester	*Madison*	M.E.
Aultman, Dwight Edward, Jr.	*Ft. Harrison, Ind.*	E.E.
Averill, Robert Lincoln	*Batavia, Ill.*	*E.E.*
Azcón, Ernesto	*Mexico, D. F.*	Min. E
Baehr, William Byron	*Glencoe, Ill.*	*Ch.E.*
Bandelman, Oliver John	*Mitchell, S. D.*	C.E.
Barenscher, Otto William	*Church's Ferry, N. D.*	*Ch.E.*
Barker, Carleton Joseph	*Troy Center*	E.E.
Barker, Herman Henry	*Noblesville, Ind.*	E.E.
Bars, Carl	*St. Charles, Ill.*	M.E.
Bartels, William Carl	*Sheboygan*	E.E.
Bauer, Charles August	*Springfield, Ohio*	M.E.
Baxandall, Frank Matthew	*Fall River*	E.E.
Bean, George Elmer	*Teton, Ida.*	E.E.
Beatty, William Gibbs	*Birmingham, Ala.*	Min.E.
Becker, Elmer William	*Appleton*	C.E.
Bellew, Edgar Thomas	*Appleton*	Ch.E.
Bentson, Harold Jack	*Kenosha*	M.E.
Berg, Leo Frank	*Lima Center*	E.E.
Blaisdell, Charles Oswald	*Darlington*	E.E.
Blanch, Frederick Doig	*Claremont, Minn.*	E.E.
Boley, Walter William	*Cleveland, Ohio*	Min.E.
Bopf, Edward Carl	*Wausau*	E.E.
Boruszak, Nathan	*Milwaukee*	E.E.
Branovan, Leo I.	*Milwaukee*	E.E.
Breed, Bowman Knight	*Racine*	M.E.
Breimeister, Harry	*Milwaukee*	C.E.
Breitenbach, William Edgar	*Madison*	Ch.E.
Breivogel, Milton William	*Two Rivers*	C.E.
Bruce, John Nathan	*Shawano*	*M.E.*
Bruhnke, Leslie T.	*Milwaukee*	M.E.
Buerk, Frederick Carl	*Racine*	E.E.
Bybuth, Martin Edward	*Eau Claire*	M.E.
Caldwell, Earl Leroy	*Indianapolis, Ind.*	M.E.
Carlson, George Alfred	*Chicago, Ill.*	M.E.
Carlyon, William Ralph	*Burlington*	E.E.
Cartwright, William Hugh	*Eau Claire*	E.E.
Chambers, Charles Jamieson	*Eldorado, Kan.*	M.E.
Chase, Sherman	*Madison*	M.E.
Chyle, John Joseph	*Cudahy*	Ch.E.
Coates, Royal Edward	*Prairie du Chien*	E.E.

Coe, Simeon Miles	*Sterling, Ill.*	E.E.
Collins, William Allan	*Madison*	C.E.
Corliss, Allen Gregory	*LaGrange, Ill.*	Ch.E.
Czerwonky, Hugo Emil	*Milwaukee*	M.E.
Davidson, Milton Sylvester	*La Crosse*	Ch. E.
Desmond, John Thomas	*Boscobel*	C.E.
Dollmeyer, Walker George	*Freeport, Ill.*	Min. E.
Donkle, Melvin Clarence	*Madison*	Ch.E.
Donnelly, Daniel Wilfred	*Appleton*	M.E.
Donohue, Edward Brown	*Helena, Mont.*	C.E.
Dowling, Roy Charles	*Dodgeville*	E.E.
Drissen, Wallace William	*Port Washington*	M.E.
Dudley, Delos Edson	*Madison*	M.E.
Dueno, Fred Henry	*Manitowoc*	E.E.
Duket, Sandy	*Marinette*	E.E.
Eaton, Temple Osman	*Virginia, Minn.*	E.E.
Eddy, Russell Morris	*Oconomowoc*	E.E.
Farwell, Knight Dick	*Chicago, Ill.*	C.E.
Feirn, William Hatherell	*Janesville*	M.E.
Fiedler, Stewart Otho	*Madison*	Ch.E.
Field, Walter Sherman	*Chicago, Ill.*	Min.E.
Finkle, George Henry	*Greenwood*	E.E.
Fischer, Herbert B.	*Embarrass*	E.E.
Fisk, George Robert	*St. Croix Falls*	M.E.
Fitze, Maurice Edward	*Beloit*	M.E.
Foxon, Roy Draper	*Northampton, Mass.*	C.E.
Fraser, Allen Morgan	*Brodhead*	E.E.
Friedman, Abraham Samuel	*Racine*	M.E.
Fulkerson, Reuben Perry	*Tacoma, Wash.*	Ch.E.
Gartner, Irl Cave	*Linneus, Mo.*	E.E.
Gary, Charles Vilas	*Madison*	Ch.E.
Gausman, William Henry	*Verona*	E.E.
Gerhardt, William Arthur, Jr.	*Neenah*	Ch.E.
Gladson, Clifford Clarence	*St. Louis, Mo.*	Min.E.
Goshaw, Irl Rufus	*Gary, Ind.*	E.E.
Gray, John Engels	*Mineral Point*	M.E.
Greeley, William Frederick	*Lake Delavan*	M.E.
Greene, Ernest Wilfred	*Plant City, Fla.*	Ch.E.
Gregg, Hendrick Jefferson	*Madison*	E.E.
Greiling, David John	*Green Bay*	M.E.
Grosjean, Harry William	*Milwaukee*	C.E.
Gunther, Gustave Adolph	*Spooner*	M.E.
Haddord, Irving Reinhold	*Rockford, Ill.*	C.E.
Hammann, William, Jr.	*Milwaukee*	C.E.
Hansen, Harold Edgar	*Green Bay*	M.E.
Hanson, Malcolm Parker	*Milwaukee*	E.E.
Hare, Clarence Matthew	*Barksdale*	Ch.E.
Harris, Mace Van Sant	*Fergus Falls, Minn.*	Ch.E.
Harris, Robert Edward	*Chicago, Ill.*	Ch.E.

Hart, Lyman Herbert	*Madison*	Ch.E.
Hartwell, Henry Thomas	*Madison*	M.E.
Haugen, Edmond Harrison	*Brookings, S. D.*	M.E.
Hawkins, Milner Haine	*Madison*	Min.E.
Hayward, Howard Vincent	*Milwaukee*	M.E.
Hering, Reuben Eugene	*Cross Plains*	E.E.
Hildreth, Lane Warner	*Madison*	M.E.
Hirsch, Edmund	*Milwaukee*	C.E.
Hirth, Carl William	*Milwaukee*	Ch.E.
Hoffman, Philip Anthony	*Belle Plaine*	M.E.
Holden, Charles Edward	*Burkhardt*	C.E.
Hoover, Stephen Clark	*Denver Col.*	E.E.
Hrubesky, George Frederick	*Menasha*	M.E.
Hume, Lloyd Edward	*Madison*	E.E.
Ihling, Herbert Martin	*Milwaukee*	C.E.
Johnson, Edwin Eric	*Dollar Bay, Mich.*	E.E.
Johnson, Floyd Dwight	*Bear Creek*	E.E.
Johnson, Howard Edward	*Ashland*	M.E.
*Johnson, Royce Everett	*Bear Creek*	E.E.
von Kaas, Herman Karl	*Milwaukee*	M.E.
Karnath, George Paul	*Fountain City*	M.E.
Kelhofer, Leon Martin	*Madison*	E.E.
Kelly, Pennell Clarke	*Ft. Atkinson*	Ch.E.
Kent, Hugh, Jr.	*Dundee, Ill.*	C.E.
Kersten, Aurin William	*Hartford*	E.E.
Kietzmann, Edward Herman	*Westfield*	E.E.
King, Kenneth Jacob	*Superior*	M.E.
King, Timothy Paul	*Niagara*	E.E.
Kleinhammer, Herman Albert	*Platteville*	M.E.
Koch, Norman Frederick	*Milwaukee*	M.E.
Koresh, George	*West Allis*	Ch.E.
Koskinan, Clyde John	*Fond du Lac*	M.E.
Kroesche, Herold Joseph	*German Valley, Ill.*	Ch.E.
Krohn, Howard Gustav	*Whitewater*	E.E.
Krombholz, Alois John	*Milwaukee*	Ch.E.
Kroncke, Earl Alfred	*Foley, Ala.*	C.E.
Kuenzli, Walter Arthur	*Wauwatosa*	Ch. E.
Kuhe, David Birmingham	*Madison*	Ch.E.
Landkamer, Othmar Frank	*Mankato, Minn.*	E.E.
Lanning, Brown Clifford	*Black River Falls*	E.E.
Larson, Arthur Joseph	*Evanston, Ill.*	E.E.
Leonard, John Burton	*Fond du Lac*	M.E.
Lessing, Otto	*Williamstown, Mass.*	E.E.
Lilja, Edgar David	*Rockford, Ill.*	E.E.
Lonergan, George	*Darlington*	Ch.E.
Lorig, Clarence Herman	*So. Milwaukee*	Min.E.
Luedtke, Elroy Robert	*Reedsville*	C.E.

*Fellow in Electrical Engineering.

Lynch, Henry Grattan	*Superior*	Min.E.
Lynn, Delmur Charles	*Cornell*	E.E.
McCullough, Herbert David	*Fond du Lac*	C.E.
MacLeod, William S.	*Madison*	C.E.
McMurran, Marshall John	*Madison*	E.E.
Madell, Frank James	*Oshkosh*	M.E.
Manke, Arthur Gustav	*Norwalk*	E.E.
Manthey, Rollin Henry	*Ablemans*	Ch.E.
Mariotte, Walter William	*Madison*	M.E.
Marx, Carl Henry	*Madison*	E.E.
Mason, Warren Alexander	*Milwaukee*	M.E.
Masters, Dean Bartley	*Canton, Minn.*	E.E.
Mathy, Anton	*Brussels*	C.E.
Maurer, Harold John	*Milwaukee*	M.E.
Michael John Hadji	*Samos, Greece*	E.E.
Miller, Thomas Foster	*Green Bay*	E.E.
Minshall, Neal Edward	*Viroqua*	C.E.
Miyasaki, Masao	*Lihue, Kauai, Hawaii*	E.E.
Mogg, J. Owen	*Fontana*	M.E.
Mohs, Carl Elijah	*Madison*	C.E.
Mollerus, Frederick John	*Milwaukee*	M.E.
Mooney, Fred Elmore	*Oconto*	Ch.E.
Morgan, Edgar William	*Madison*	E.E.
Mulholland, Clifford Arthur	*St. Louis, Mo.*	M.E.
Murphy, Dennis John	*Buhl, Minn.*	E.E.
Murphy, John Morgan	*Superior*	Min. E.
Naab, Milton Peter	*West Bend*	E.E.
Nelson, Edwin Fritshiel	*Superior*	Ch.E.
Nelson, Erik Nels	*Denver, Col.*	E.E.
Nelson, Floyd Arthur	*Cashton*	Min. E.
Nelson, Floyd Elmer	*Kenosha*	E.E.
Nemetz, Victor Wenzel	*Kewaunee*	E.E.
Nethercut, Robert Clifford	*Wauwatosa*	C.E.
Nichol, Paul Alexander	*Madison*	Ch.E.
Nichols, Thomas Chester	*Milwaukee*	M.E.
Nielsen, Arnold Helmuth	*Sparta*	E.E.
Nimmer, Friedrich William	*Milwaukee*	E.E.
Obriecht, Arthur Matthew	*La Crosse*	E.E.
Odell, Milford	*Madison*	E.E.
Olson, Edward Eric	*Milwaukee*	M.E.
Olson, John Hjalmar	*Hurley*	C.E.
Onstad, Ragnar Erick	*Madison*	E.E.
Osius, Edgar Frederick	*Plymouth*	E.E.
Otis, Edward Numan	*Madison*	C.E.
Ouweneel, William Anton	*Milwaukee*	M.E.
Ouweneel, William Edwin	*Milwaukee*	Ch.E.
Pech, Reuben John	*Manitowoc*	E.E.
Pedley, Howard LeRoy	*Kenosha*	E.E.
Peterman, Paul Howitt	*La Crosse*	E.E.
Peterson, Harold Arthur	*Phelps*	E.E.

Plettner, Earl Milton	*Algoma*	E.E.
Plewke, Walter Herman	*Avalon*	Ch.E.
Plummer, Richard Trezona	*Marble, Minn.*	M.E.
Pokras, Adolph	*Milwaukee*	E.E.
Porter, Frank M.	*Elkhorn*	E.E.
Purucker, Ralph Erhardt	*Jefferson*	E.E.
Purvis, Adrian Arthur	*Memphis, Tenn.*	M.E.
Quammen, Delbert Jonathan	*Madison*	M.E.
Rahr, Frederick Albert, Jr.	*Green Bay*	E.E.
Rand, Alfred Emil	*Chicago, Ill.*	M.E.
Ratcliff, Horace Hussey	*Madison*	E.E.
Reed, George Letchworth	*Boston, Mass.*	C.E.
Reinhart, Bruce Fairfax	*Toledo, Ohio*	M.E.
Rian, John	*Buhl, Minn.*	E.E.
Risteen, Horace William	*Chippewa Falls*	M.E.
Ritchie, William Edward	*Hinsdale, Ill.*	M.E.
Robb, Carroll Elbridge	*La Crosse*	C.E.
Roller, August Frank	*Sun Prairie*	E.E.
Rose, Reed Alden	*Madison*	M.E.
Rosecky, Joe	*Milwaukee*	M.E.
Rutherford, John Albert	*Baltimore, Md.*	Ch. E.
Sargis, Samson George	*Philadelphia, Pa.*	M.E.
Schacht, Delbert Herman	*Augusta*	E.E.
Schaefer, Carl Eugene	*Highland Park, Ill.*	M.E.
Schmidt, Walter Carl	*Brillion*	E.E.
Schneider, Alfred William	*Milwaukee*	C.E.
Schoenoff, Waldemar Paul	*Menomonie*	E.E.
Scholes, Robert Henry	*Endeavor*	E.E.
Schudt, Joseph August	*Freeport, Ill.*	C.E.
Schuman, Everett Carlyle	*Milwaukee*	C.E.
Servatius, John Peter	*Black Creek*	Min.E.
Shore, Franklin	*Anking City, Anhui, China*	C.E.
Sibbe, Carl Frederick	*Superior*	M.E.
Silver, Charles Albert	*Wauwatosa,*	Ch. E.
Smongeski, Paul Peter	*Two Rivers*	M.E.
Sogard, Lawrence Taylor	*Racine*	C.E.
Solomon, Earl Louis	*Mooseheart, Ill.*	C.E.
Spoodis, Anthony	*Superior,*	M.E.
Stebbins, Lawrence Lane	*Clinton, Iowa*	C.E.
Stewart, Sturtevant	*Rockford, Ill.*	E.E.
Stumpf, Walter Peter	*Madison*	M.E.
Sullivan, John Frederick, Jr.	*Hurley*	M.E.
Sun, Kwan Faung Henry	*Shanghai, China*	E.E.
Thessin, Paul George	*Milwaukee*	M.E.
Thomas, Everett James	*Ipswich, S. D.*	E.E.
Thomas, George Hill	*West Allis*	E.E.
Thomas, Walter Edward	*Milwaukee*	Ch.E.
Timmons, James Samuel	*Monroe*	E.E.
Tjoflat, Gerald Benjamin	*Ettrick*	E.E.

Torgeson, Oscar Winfield	*Madison*	C.E.
Towle, Wilbur Trayer	*Madison*	M.E.
Trenary, Horace Ivey	*Platteville*	E.E.
Trotter, Richard Adelbert	*Virginia, Minn.*	M.E.
Vac'avik, Frank Joseph	*Two Rivers*	E.E.
Vornholt, Karl Edward	*Madison*	E.E.
Walton, Joseph L.	*Moorestown, N. J.*	Ch.E.
Wandschneider, Fritz William	*Ft. Atkinson*	M.E.
Weimer, Bernard Arthur	*Arlington Heights, Ill.*	Ch.E.
Welch, John Francis	*Jefferson*	E.E.
Wells, John Pearl	*Lake View, Iowa*	E.E.
Whelan, Richard Allen	*Milwaukee*	Ch.E.
White, Emil	*Racine*	C.E.
Whitworth, William Edward	*Ansonia, Conn.*	E.E.
Wilcox, Clarendon Wilton	*Madison*	E.E.
Wing, Orlando Harold	*Eau Claire*	E.E.
Young, Ruby Reginald	*Ft. Atkinson*	M.E.
Zamzow, George Louis	*Baraboo*	M.E.
Zapata, José Emilio	*Madison*	Min.E.
Zia, Yussuf Abraham	*Constantinople, Turkey*	E.E.
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Juniors

Abendroth, George Herman	*Milwaukee*	C.E.
Alfery, Henry Frank	*Milwaukee*	E.E.
Alk, Louis Charles	*Green Bay*	C.E.
Anderson, Lester Virgil	*Racine*	M.E.
Andrus, Orrin Edgar	*Troy Center*	Ch.E.
Ballam, Horace Victor	*Marshfield*	C.E.
Bartleson, Glenn Sidney	*Saxeville*	C.E.
Benedict Reginald Ralph	*Medford*	E.E.
Bennett, Lester Cealian	*Endeavor*	C.E.
Bennett, Martin Toscan	*Katonah, N. Y.*	Ch.E.
Berger, Harold John	*Genoa Junction*	E.E.
Bergholz, Eugene Adolf	*La Crosse*	E.E
Besserdich, Arnold Carl	*Kewaunee*	M.E.
Bird, Eugene Aerris	*Montpelier, Idaho*	M.E.
Bloodgood, Dan Evans	*Elkhorn*	C.E.
Blunt, Albert Edward	*Evansville*	C.E.
Bodoh, Joseph Edward	*Shicoton*	E.E.
Bohrnstedt, Russel George	*Arcadia*	M.E.
Bole, Charles Alexander	*St. Charles, Minn.*	E.E.
Bolender, Howard Hosier	*Monroe*	M.E.
Bollens, Fred Henry	*Farmington, Mich.*	E.E.
Bonawitz, Walter George	*Milwaukee*	C.E.
Bond, Jerome Sanford	*Milwaukee*	M.E.
Borden, Fred Guy	*Madison*	E.E.
Brabender, George John	*Peshtigo*	Ch.E.
Brumm, Roman Henry	*Madison*	C.E.

Busby, Lynn John	*Arcadia*	C.E.
Carlson, Arthur Waldemar	*Superior*	E.E.
Carlson, McKinley S.	*Necedah*	E.E.
Carroll, Arthur Floyd	*Altoona*	E.E.
Cassoday, John B.	*Madison*	M.E.
Chadima, Willard John	*Cedar Rapids, Iowa*	M.E.
Chapman, Theron Taggart	*Oak Park, Ill.*	E.E.
Chinnock, Malcolm Owen	*Wabeno*	E.E.
Christmas, Basil Robert	*Superior*	C.E.
Coate, Warren Huber	*Maywood, Ill.*	C.E.
Cook, Maurice Stanley	*Chippewa Falls*	M.E.
Cooley, Donald N.	*Wauwatosa*	C.E.
Corey, Donald Holbrook	*Milwaukee*	E.E.
Cosentine, Louis George	*Kenosha*	E.E.
Cottingham, Willard Sherwin	*Argonne*	C.E.
Crew, Louis Crawford	*Arcola, Miss.*	C.E.
Crosby, Murray Grimshaw	*Elroy*	E.E.
Datesman, Hiram Moe	*Fremont, Ohio*	E.E.
DeMann Francis Louis	*Green Bay*	E.E.
Dickson, Lester Raymond	*Milwaukee*	Ch.E.
Doescher, Ernest Bernhardt	*Platteville*	E.E.
Dupuis, Harry Paul	*Sigourney, Ia.*	E.E.
Dyrud, Martinus Jacob	*Baraboo*	Ch.E.
Edwards, Arthur Wesley	*Highland*	C.E.
Ehlers, George Milton	*Milwaukee*	Ch.E.
Ekholm, Cecil Ray	*Superior*	C.E.
Ekstrom, Dean Bernard	*Superior*	Min.E.
Emrick, Daniel George	*Hillsboro, Ore.*	Min.E.
Engelke, Arnold Joseph	*La Crosse*	C.E.
Engelke, Herman Gerhard	*Milwaukee*	Ch.E.
Erickson, Einer Andrew	*Racine*	E.E.
Esau, William Alfred	*Aberdeen, S. D.*	E.E.
Esterline, Merrill Brown	*Indianapolis, Ind.*	Ch.E.
Estes, Deloit Fast	*Goshen, Ind.*	E.E.
Eyer, Claude Wesley	*Glendive, Mont.*	Ch.E.
Fabera, Wenzel	*Manitowoc*	M.E.
Fairman, Floyd Irving	*Brodhead*	E.E.
Field, George Hansen	*Racine*	C.E.
Fisher, Robert Ray	*Oregon*	E.E.
Fisher, William Henry	*Minocqua*	C.E.
Fleishauer, Wayne Ralph	*Arkansaw*	E.E.
Flueck, Walter John	*La Crosse*	C.E.
Francis, Chester Jenny	*Albany*	C.E.
Froehlig, Rudolph Alois	*Milwaukee*	Ch.E.
Gansen, Edward Frank Kaerwer	*Oshkosh*	E.E.
Gettelmann, Arthur Frederick	*Bismark, N. D.*	E.E.
Gibson, Harley Louis	*Madison*	E.E.
Giles, William Ralph	*Madison*	Ch.E.
Gotham, Donald Emerson	*Ladysmith*	Min.E.

Graham, George Wesley	*Hibbing, Minn.*	M.E.
Gramm, Anthony Frank	*Mt. Horeb*	E.E.
Griffey, Leon John	*Janesville*	Ch.E.
Grimstad, James Marion	*Mt. Horeb*	E.E.
Guettler, Robert Oscar	*Milwaukee*	Ch.E.
Guthrie, Sydney Boyd	*Salt Lake City, Utah*	Ch.E.
Haase, Harold Frederick	*Milwaukee*	Ch.E.
Hahn, Leonard Earl	*Kenosha*	Ch.E.
Hall, John LeRoy	*Whitewater*	Ch.E.
Hanson, Floyd Leslie	*Superior*	E.E.
Harms, Layton Royal	*Milwaukee*	C.E.
Haugh, Earl Wood	*Baraboo*	E.E.
Hazen, Harvey Duke	*Phelps*	M.E.
Hering, Oswald H.	*Mountain Home, Idaho*	Min.E.
Hitchins, Owen Stanhope	*Waterloo, Iowa*	M.E.
Hoebel, Harold Frederick	*Madison*	E.E.
Holmes, Hubert Germain	*Beloit*	E.E.
Holub, Edward	*Boyd*	E.E.
Huber, Henry Hans	*Whitefish Bay*	Min.E.
Hudson, Alfred	*Argentina, S. A.*	E.E.
Janzer, Lorin Henry	*Milwaukee*	C.E.
Jardine, Zac	*Madison*	C.E.
Jensen, Harold William	*Madison*	C.E.
Jones, Edson Gobar	*Madison*	M.E.
Jones, Henry Grady	*Madison*	M.E.
Juhl, Martin Ellis	*Ashland*	E.E.
Kelly, Daniel Sheldon Whipple	*Pierre, S. D.*	E.E.
Kincannon, Leo Theodore	*Madison*	M.E.
Kneer, Vernon Ralph	*Eau Claire*	C.E.
Knobloch, Robert John	*Eau Claire*	E.E.
Koenig, Herbert George	*Sauk City*	E.E.
Kreimann, Erwin Henry	*Kiel*	E.E.
Krieger, Elmer Carl	*Milwaukee*	C.E.
Kuhe, Harry	*Madison*	Ch.E.
Kurtz, Maynard Lynn	*Ft. Atkinson*	C.E.
Lallier, Paul Randall	*Madison*	E.E.
Landwehr, Waldemar John	*Sheboygan*	C.E.
Lange, Herbert William	*Watertown*	M.E.
Laube, LeRoy Francis	*Brodhead*	E.E.
Leisch, Frederick Krisch	*Portage*	E.E.
Lindner, Clement Pearl	*Prairie du Chien*	C.E.
Livingston, David Wesley	*Milwaukee*	E.E.
Lloyd, C. Herbert	*Milwaukee*	M.E.
Lovewell, Newton Nehemiah	*Washington, D. C.*	E.E.
Ludden, Charles Franklin	*Mineral Point*	E.E.
McCann, Augustus Ripley	*Madison*	E.E.
McCormick, Gerald Thomas	*Chicago, Ill.*	C.E.
McCoy, Julius Mayne	*Waitsburg, Wash.*	C.E.
MacDonald, William Heraly	*Green Bay*	E.E.

MacLeish, Kenneth Clinton	*Merrimack*	C.E.
McNeil, Emerson Duncan	*Virginia, Minn.*	Min.E.
Manson, Stewart Horn	*Wausau*	Ch.E.
Maresh, Frank	*Carrollville*	Ch.E.
Martin, Clarence Fred	*Oshkosh*	E.E.
Martin William Reuben	*Dodgeville*	E.E.
Mayer, Herbert Clarence	*Milwaukee*	E.E.
Megow, George Edward	*S. Milwaukee*	E.E.
Merrill, Robert Allen	*Sparta*	E.E.
Miller, Edward Holmes	*Green Bay*	E.E.
Miller, Merl William	*Baraboo*	M.E.
Minshall, Ethan Elmer	*Viroqua*	E.E.
Morrow, William John	*Kenosha*	Ch.E.
Muehlenbruch, Alfred Theodore	*Manitowoc*	M.E.
Musselman, Morse Monroe	*Madison*	E.E.
Neumann, Philip Carleton	*North Milwaukee*	E.E.
Newton, William Russell	*Madison*	C.E.
Niederman, Philip Henry	*Milwaukee*	M.E.
Nogueria, Frederico Pupo	*Brazil, S. A.*	E.E.
Nuesse, Elmer Carl	*Wauwatosa*	E.E.
Olson, Melvin Clarence	*Madison*	E.E.
Opitz, Herbert C.	*Elkhorn*	M.E.
Palen, Vernon Walser	*Sparta*	E.E.
Petersen, Edwin Scott	*Chicago, Ill.*	Ch.E.
Peterson, DuWayne John	*Dodgeville*	E.E.
Phelps, Ivan	*Albany*	C.E.
Plaenert, Alfred Bernhard	*Madison*	M.E.
Plautz, Edgar Gottlieb	*Milwaukee*	C.E.
Poppy, Cecil Clifford	*New London*	C.E.
Prasar, Hans Raja	*Lahore, Punjab, India*	E.E.
Pratt,Howard John	*Madison*	E.E.
Prideaux, Donald Williams	*Madison*	E.E.
Quinn, Raymond John	*Madison*	C.E.
Radke, Walter Ludwig	*Owen*	C.E.
Reinhold, Harold Edward	*Wausau*	E.E.
Reinhold, Max Francis	*Milwaukee*	C.E.
Rhode, Richard Valentine	*Kenosha*	M.E.
Richtmann, William Muir	*Madison*	M.E.
Rick, Norman Andrew	*Wausau*	C.E.
Ridgeway, Gordon Leroy	*La Crosse*	Ch.E.
Rietz, Raymond Carl Frederick	*Rock Island, Ill.*	M.E.
Ritchie, Russell Ervin	*Ashland*	E.E.
Roscoe, David Conrad	*Toledo, Ohio*	Min.E.
Rundell, Edward Bacon	*Madison*	C.E.
Saks, John Stephan	*Milwaukee*	C.E.
Saltzstein, Irving David	*Milwaukee*	C.E.
Schmidt, Alexander Otto, Jr.	*Milwaukee*	Ch.E.
Schmidt, Eugene Albert	*Milwaukee*	C.E.
Schmidt, George John	*Milwaukee*	C.E.

Schmidt, Herbert William	*Wauwatosa*	M.E.
Schrank, Joseph Michael	*Ashland*	M.E.
Schubert, William Emil	*Milwaukee*	M.E.
Sharratt, Clarence Willard	*Mazomanie*	E.E.
Sherburne, Henry Clement	*Fremont*	C.E.
Shimanski, Victor Edward	*Racine*	M.E.
Simons, Fred Adams	*Newtonville, Mass.*	C.E.
Simpelaar, Clyde Sterling	*Milwaukee*	M.E.
Sindt, Erwin Jacob	*Davenport, Iowa*	Ch.E.
Siren, Edward Rudolf	*Iron Belt*	Min. E.
Skoglund, Raymond Konrad	*Superior*	Ch.E.
Smallshaw, James	*Milwaukee*	C.E.
Smith, Millard Beale	*Wauwatosa*	C.E.
Smith, Ralph Albert	*Wauwatosa*	C.E.
Snyder, Clemens Matthew	*Madison*	C.E.
Steel, Beaumont Andrew	*Milwaukee*	M.E.
Stiehm, Floyd Manerd	*Johnson Creek*	E.E.
Streeter, Raymond	*Kewaunee*	E.E.
Stuart, Delbert Erasmus	*Monroe*	M.E.
Summers, Erwin Ruskin	*Huntington, Ind.*	E.E.
Sveen, Erwin Alexander	*Westby*	E.E.
Swain, Ralph Robert	*Waukesha*	M.E.
Taylor, William Harold	*Wauwatosa*	E.E.
Teckemeyer, Oscar William	*Madison*	M.E.
Tews, Roland Roy	*Milwaukee*	M.E.
Thayer, Harry Curtis	*Wauwatosa*	E.E.
Thiemann, Vincent Aloysius	*Devils Lake*	E.E.
Thomas, Cleo Whitney	*Madison*	E.E.
Thomas, Donald T.	*West Allis*	E.E.
Thomas, Melvin Aubrey	*New Castle, Neb.*	E.E.
Thompson, John Gordon	*St. Croix Falls*	C.E.
Thwaits, Edmond Harrison	*Milwaukee*	C.E.
Tovey, David Stephen	*Madison*	Min.E.
Tuttle, Harold Shipman	*Balsam Lake*	C.E.
Van Doren, Kenneth Reed	*Birnamwood*	E.E.
Waffle, Nathan Lowell	*Fond du Lac*	E.E.
Walker, Henry Oswald	*Houghton, Mich.*	E.E.
Waterman, Morris Chauncey	*Barrington, Ill.*	M.E.
Webb, Robert Barton	*Milwaukee*	C.E.
Weideman, Bernard Alfred	*Fond du Lac*	M.E.
Weiss, Harold Charles	*Rensselaer, Ind.*	Min.E.
West, Kenneth Allen	*Madison*	E.E.
Wheeler, Ralph Gilbert	*Pepin*	Ch.E.
White, Omar Washburn	*Missoula, Mont.*	C.E.
Whitten, Robert Clay	*Virginia, Minn.*	M.E.
Wienke, Arthur Robert	*Beloit*	C.E.
Wiese, Arno Mueller	*Davenport, Iowa*	E.E.
Winzenburg, Henry Edwin	*Madison*	C.E.
Wolff, Harvey Anton	*Milwaukee*	M.E.

Woodward, George Stedman, Jr.	*Norwood, Ohio*	M.E.
Wooldridge, Kent Edward	*Fond du Lac*	E.E.
Yehle, Robert Ralph	*Florence*	E.E.
Ziegler, Theodore Frederick	*Appleton*	M.E.
Zufelt, Jerome Crosby	*Sheboygan*	C.E.
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Sophomores

Abernathy, A. D.	*Madison*	E.E.
Anderson, Oscar Manford	*Viola*	E.E.
Arnold, Arthur Brown	*Madison*	M.E.
Atkins, William Forester	*Madison*	E.E.
Bailey, James Cletus	*Pembine*	E.E.
Bauernfeind, Walter Joseph	*Menasha*	E.E.
Bell, Joseph McClellan	*Wauwatosa*	Ch.E.
Bemm, Harold Frederick	*Milwaukee*	M.E.
Benfer, Maurice Frink	*Elkhorn*	M.E.
Bergmann, Esbin Henry	*Sparta*	Ch.E.
Bienfang, Mark Carl	*Jefferson*	E.E.
Bjorquist, Harold Olaf	*Milwaukee*	E.E.
Blumer, Walter Arnold	*Monroe*	E.E.
Brackett, Max Abraham	*Elk Mound*	E.E.
Brady, Eugene Nelson	*White Lake*	C.E.
Breitenbach, George Charles	*Madison*	M.E.
Brightly, Frederick Charles, Jr.	*Oak Park, Ill.*	M.E.
Brooks, Luther Everett	*Wausau*	M.E.
Brooks, Ralph Raymond	*Evansville*	E.E.
Bussey, Kenneth George	*Chicago, Ill.*	C.E.
Cahill, Walter D.	*Port Edwards*	C.E.
Campbell, Donald W.	*Evansville*	M.E.
Carlson, Edwin Albert	*Madison*	C.E.
Carpentier, Raymond Arthur	*Amery*	E.E.
Carter, Amos Rudyard	*Chetek*	E.E.
Chadwick, William Jacob	*Racine*	C.E.
Chase, Heman Lincoln	*E. Alstead, N. H.*	C.E.
Christensen Carl Edward	*Bailey's Harbor*	E.E.
Clark, Henry Lurkins	*Richland Center*	M.E.
Clark, Sheldon McKinley	*Madison*	C.E.
Cole, Ivan Larsen	*Clintonville*	C.E.
Courtenay, Bentley	*Milwaukee*	C.E.
Cramton, Nat Fayette	*Madison*	M.E.
Dahl, Arthur Gerald	*Chicago, Ill.*	E.E.
Damon, Glenn Herbert	*Wessington Springs, S. D.*	Ch.E.
De Bot, Elmer Clarence	*Wittenberg*	E.E.
Degollado, William Mojica	*Mexico City, Mex.*	E.E.
Deist, John Woodward	*Madison*	E.E.
Devendorf, Joseph Joslin	*Madison*	C.E.

Donaughey, James Bernard	*Madison*	C.E.
Dowling, Claire Frederick	*Boscobel*	C.E.
Dresser, Weyburn Hall	*Madison*	E.E.
Drolenga, Nicholas Clarence	*Chcago, Ill.*	C.E.
Ehrlinger, Henry P.	*Park Ridge, Ill.*	Min.E.
Eichfeld, William Kenneth	*Milwaukee*	C.E.
Elfers, Paul August	*Milwaukee*	Ch.E.
*Engel, Francis B.	*Mayville*	C.E.
Eriksen, Karl Angle	*Ashland*	C.E.
Ersler, Edward Sidney	*Madison*	C.E.
Evans, Norman Ambrose	*Two Rivers*	M.E.
Ewer, Edward Maynard	*Sheboygan*	C.E.
Fahrner, George Albert	*Wisconsin Rapids*	E.E.
Finlayson, Robert Edward	*Madison*	C .E.
Flagler, Lawrence Arthur	*Eau Claire*	M.E.
Folk, Donald Gartrell	*New Albany, Ind.*	E.E.
Frazier, Lincoln Bass, Jr.	*Aurora, Ill.*	E.E.
Frieden, Joseph Hyacinthe	*Madison*	M.E.
Galaz, José Dolores Encis	*Mexico City, Mex.*	E.E.
Gale, Grant Oscar	*Sodus, Mich.*	E.E.
Glick, William Cratis	*Green Bay*	E.E.
Golz, Norman Albert	*Wausau*	E.E.
Gore, George Whitcomb	*Madison*	M.E.
Green, Kenneth Henry	*Middleton*	C.E.
Greenidge, Charles Turner	*Janesville*	Ch.E.
Grinnell, Milo Dwight	*Monroe*	E.E.
Groenert, Lawrence Elmer	*Prairie du Chien*	E.E.
Growt, Glenn Nicholls	*Trempealeau*	C.E.
Guy, J. Robert	*Milwaukee*	M.E.
Hahn, Emilie	*Chicago, Ill.*	Min.E.
Hansen, Russell Emil	*Nye*	Ch.E.
Hanzel, Joseph William	*River Forest, Ill.*	M.E.
Hardy, Allan Arthur	*Chicago, Ill.*	C.E.
Hardy, Howard James	*Ashland*	C.E.
Harr, Russel Earl	*Rochelle, Ill.*	Ch.E.
Hart, Willard Harry	*Stevens Point*	C.E.
Hartling, Charles	*Rockwell City, Iowa*	E.E.
Hastings, William Harold	*Madison*	C.E.
Hebard, Glen George	*Eagle River*	E.E.
Hebda, Frank Joseph	*Cicero, Ill.*	C.E.
Heise, Lorenz William	*Madison*	M.E.
Hiemke, Hugo William	*Milwaukee*	Ch.E.
Hilliard, Spencer Gordon	*Milwaukee*	M.E.
Hockings, Everett Clarence	*Burlington*	E.E.
Holder, Lyman Franklin	*Rockwell City, Iowa*	E.E.
Holmquist, Arthur Swan	*Superior*	E.E.
Holzhauser, Elmer Louis	*Milwaukee*	Ch.E.
Howlett, Clarence Edward	*Omro*	Ch.E.

*Died October 28, 1923

Jackson, Ray	*Parrish*	E.E.
Jardine, Thomas Forrest	*Madison*	E.E.
Johnson, Carl Elmer	*Wausau*	E.E.
Johnson, Paul Richard	*Madison*	E.E.
Jopp, James Melville	*Kaleida, Manitoba, Canada*	E.E.
Kautz, Harold Raymond	*Madison*	E.E.
Kelley, Neil Thomas	*Elmwood*	E.E.
Kemnitz, Harold Clarence	*Milwaukee*	Ch.E.
Kemp, Frank William	*Beloit*	C.E.
Ketelhohn, Alfred Hugo	*Columbus*	C.E.
Klein, Arnold Lewis	*Milwaukee*	Ch.E.
Klema, Orvin Allen	*Racine*	Ch.E.
Koch, Richard Gerhard	*Milwaukee*	Ch.E.
Koch, Roderic Malcolm	*Evansville, Ind.*	Ch.E.
Kratsch, Henry William	*Oshkosh*	M.E.
Kubista, William Richard	*Madison*	Ch.E.
Kuehl, Edgar Castor	*Brillion*	Ch.E.
Lamboley, Raymond George	*Belleville*	E.E.
La Pour, Milton Francis	*Racine*	E.E.
Lathers, Victor Matthew	*Beloit*	C.E.
Leith, Andrew	*Madison*	C.E.
Leith, Kenneth	*Madison*	Min.E.
Lemmer, Vernon Eugene	*Spooner*	E.E.
Lerch, Glen Bennet	*Virginia, Minn.*	Min.E.
Liddle, George Fred	*Muskegon, Mich.*	C.E.
Lotzow, Fred Carl	*White Creek*	C.E.
Lovewell, Kermit Milton	*Washington, D. C.*	E.E.
McCoy, Robert Cassius	*Madison*	E.E.
McMillan, David Edward, Jr.	*Evanston, Ill.*	M.E.
Markham, George Edward	*Manitowoc*	C.E.
Markham, JackDauphin	*Manitowoc*	C.E.
Martin, George Wesley	*Mt. Horeb*	C.E.
Martin, Wesley Grindell	*Mineral Point*	Ch.E.
Matthias, Lynn H.	*Antigo*	E.E.
Medina, Pedro Cuevas	*Aguascalientes, Mex.*	M.E.
Mickle, Charles Theodore	*Green Lake*	C.E.
Millard, George Earl	*Tacoma, Wash.*	Ch.E.
Miller, Burton Frank	*Coloma*	E.E.
Miller, Erwin John	*Beaver Dam*	Min.E.
Millman, Deane Andrew	*Platteville*	Min.E.
Mina, Patricio Urro	*Magsingal, Ilocos Sur, P. I.*	E.E.
Moe, Clarence Maxwell	*Monroe*	C.E.
Mohns, Leslie Frederick	*Janesville*	E.E.
Mohr, Orie Blake	*Burlington*	C.E.
Molzahn, Harold Carl	*La Crosse*	C.E.
Morris, Robert Nicholas	*Washburn*	C.E.
Morsbach, Melvin Herbert	*Chicago, Ill.*	M.E.
Mortensen, Oscar John	*South Range*	C.E.
Mueller, Norman Paul	*Milwaukee*	C.E.
Mueller, Rudolf Benjamin	*Hot Springs, S. D.*	E.E.

Munn, Robert John	*Superior*	C.E.
Nelson, Ernest Alfred	*Chicago, Ill.*	C.E.
Nelson, Harry Albin	*Grantsburg*	M.E.
Nelson, Russell Arthur	*Madison*	C.E.
Nemela, Hugo Walter	*Buhl, Minn.*	E.E.
Newett, Alexander John	*Chicago, Ill.*	Ch.E.
Oberland, Edward Emanuel	*Manitowoc*	Ch.E.
Ortega, Manuel Durán	*Rouda, Spain*	Ch.E.
Parkinson, Herbert	*La Crosse*	C.E.
Parr, Merl Wayne	*Charles City, Iowa*	E.E.
Parsons, Walter Jay, Jr.	*Chicago, Ill.*	C.E.
Perlman, Charles	*Lake Mills*	C.E.
Perschbacher, Harold John	*West Bend*	E.E.
Perssion, Sidney	*Milwaukee*	C.E.
Piltz, Russell Julius	*Milwaukee*	C.E.
Pingel, Alfred William	*Appleton*	E.E.
Poehling, Edward William	*La Crosse*	M.E.
Polaski, Steven Harris	*Nashotah*	M.E.
Pollock, Reuben Jack	*Manitowoc*	E.E.
Prochaska, Victor Hugo	*Friendship*	C.E.
Prokop, Edmund William	*Eau Claire*	E.E.
Rabbe, John Albert	*Superior*	E.E.
Ramsay, Russell Bernard	*Morrisonville*	E.E.
Rand, Wendell Phillips	*Bear Creek*	Min.E.
Raper, Dorothy	*E. Cleveland, Ohio*	Min.E.
Rateike, George William	*Chicago, Ill.*	E.E.
Read, Kenneth Hugh	*North Milwaukee*	M.E.
Reade, Harold Otho	*Madison*	C.E.
Reader, Jay J.	*Delavan*	C.E.
Reese, Allen Homer	*Madison*	E.E.
Reinhold, Carl Jacob	*Milwaukee*	C.E.
Reynolds, Harry Laurence	*Mauston*	C.E.
Richter, Walter Hermann	*Milwaukee*	C.E.
Robinson, Laurance Penfield, Jr.	*Madison*	M.E.
Robisch, Norman George	*Jefferson*	E.E.
Roger, Albert John	*Roosevelt*	M.E.
Roland, Stanley Willard	*Rockford, Ill.*	E.E.
Ross, George Hewes	*Downers Grove, Ill.*	Ch.E.
Brothermel, Ulla A.	*Madison*	E.E.
Rudie, Leif Norman	*Westby*	E.E.
Rudolph, Roman Charles	*Fredonia*	M.E.
Rudy, Richard Henry	*Paris, Ill.*	Ch.E.
Rye, Frederick Sloan	*Wilmette, Ill.*	M.E.
Schanke, Donald Glenn	*Rochester, Minn.*	C.E.
Schmidt, Charles John	*Waunakee*	E.E.
Schmidt, George Larson	*Davenport, Iowa*	Ch.E.
Schneider, Robert Henry	*Madison*	M.E.
Schowalter, Clarence Herman	*Jackson*	M.E.
Schrader, Roland Ralph	*Kaukauna*	C.E.

Schwantz, Francis Walter	*Madison*	E.E.
Schwingel, Christian Henry	*Madison*	Ch.E.
Seastone, John Bouton	*Madison*	E.E.
Shoemaker, William Turner	*Philadelphia, Pa.*	M.E.
Silver, Harold Squier	*Wauwatosa*	E.E.
Singer, Ben Ervin	*Milwaukee*	C.E.
Slama, Raymond Adolph	*Prairie du Chien*	E.E.
Smith, Bernard Frank	*Milwaukee*	C.E.
Smith, Harold Ansorge	*Green Bay*	M.E.
Smith, Hiram Bowen	*Madison*	E.E.
Smith, Judson Porter	*Wausau*	C.E.
Sogard, Ralph Hoye	*Racine*	M.E.
Sokoloski, Edward Bernard Anthony	*Wisconsin Rapids*	E.E.
Sonday, Frederic John	*Sparta*	M.E.
Souerbry, John Marshall	*Chicago, Ill.*	E.E.
Staska, Emil Albert	*Union Center*	M.E.
Stedman, Robert Hollis	*Sturgeon Bay*	C.E.
Stehling, Ralph Joseph	*Milwaukee*	M.E.
Stein, Elmer Adam	*Milwaukee*	M.E.
Steinwand, Richard William	*Colby*	Ch.E.
Sumner, Bort Baldwin	*Madison*	M.E.
Switzer, Glidden Pierce	*De Kalb, Ill.*	M.E.
Symons, George Edgar	*Danville, Ill.*	Ch.E.
Taylor, William Russell	*Madison*	C.E.
Thayer, Frank Wilson	*Hinsdale, Ill.*	M.E.
Tickfer, Lester John	*Belfield, N. D.*	E.E.
Tietjen, William Leiner	*North Milwaukee*	Min.E.
Toner, Harold James	*Kenosha*	Ch.E.
Tratt, Francis Henry	*Whitewater*	E.E.
Trier, Robert Joseph	*Fond du Lac*	C.E.
Tseng, Lisan	*Shanghai, China*	C.E.
Tupper, Alphonse De Esten	*Plymouth*	Ch.E.
Twomey, Charles Franklin	*Rockford, Ill.*	Ch.E.
Verner, James	*Oakmont, Pa.*	M.E.
Walker, Wesley Stoddard	*Sioux City, Iowa*	Ch.E.
Wallace, Garvin John	*Cambridge*	E.E.
Walsh, Frank Archie	*Milwaukee*	Ch.E.
Walsh, Tom William	*Madison*	Ch.E.
Weaver, Donald Wismer	*Madison*	C.E.
Webster, George Walter	*Milwaukee*	E.E.
Weiskirch, Thomas Norman	*Thornton, Ill.*	Ch.E.
Whittet, Gordon Thomas	*Edgerton*	E.E.
Wiedring, Ben Alexander	*Milwaukee*	Ch.E.
Wingender, Albert Otto	*Milwaukee*	Ch.E.
Winkels, Walter George	*Superior*	M.E.
Winzenburg, Erwin Henry	*Madison*	C.E.
Wisner, John Cornelius	*Marinette*	C.E.
Wolfe, Harry C.	*Elkins, W. Va.*	E.E.
Wollaeger, Clarence Gustav	*Milwaukee*	M.E.

Wolworth, Lloyd Franklin	*Madison*	M.E.
Woy, Frank Hobbins	*Madison*	E.E.
Yahn, Arthur John	*Janesville*	Min.E.
Youngberg, Harold John	*West Salem*	C.E.
Zachow, Ralph Alvin	*Appleton*	M.E.
Zelade, Ervin Edgar	*Milwaukee*	C.E.
Zilisch, Harold William	*Milwaukee*	E.E.
Zodtner, Lisle Lester	*Portage*	Ch.E.
Zuzuly, Walter Svetislaw	*Chicago, Ill.*	M.E.

Freshmen

Abbott, Clark Henry	*Marshfield*	C.E.
Abendroth, Emil August	*Milwaukee*	C.E.
Adamson, Nicholas Frederick	*Racine*	C.E.
Alberts, Ben	*Milwaukee*	C.E.
Anderson, Arthur Job	*Chicago, Ill.*	C.E.
Anderson, Clarence Melvin	*Minot, N. D.*	E.E.
Anderson, Edwin John	*Rhinelander*	C.E.
Anton, Henry Adolph	*Milwaukee*	E.E.
Archie, David Edward	*Waterloo*	Ch.E.
Armbrecht, John George	*Madison*	C.E.
Bagnall, Vernon Barnard	*Jacksonport*	E.E.
Bailey, Gerald C.	*Pembine*	Ch.E.
Baker, Cleland Sayers	*Evansville*	E.E.
Baker, William Robert	*Janesville*	E.E.
Banta, Frederick Lee	*Stroudsburg, Pa.*	Min.E.
Bardeen, John	*Madison*	C.E.
Bareis, Raymond Christian	*Madison*	E.E.
Barkhausen, Paul Eric	*Milwaukee*	M.E.
Barkow, Harry William	*Brodhead*	E.E.
Bartels, Fred Louis	*Green Bay*	C.E.
Barton, George Lamont	*Albany*	M.E.
Bauer, Lloyd Earl	*Fond du Lac*	C.E.
Baumgarten, Harry Louis	*Tomah*	E.E.
Beau, Benno Jay	*Calvary*	Ch.E.
Beck, Frank Werner	*Fond du Lac*	C.E.
Beimer, Carl Saxe	*Beloit*	C.E.
Bell, Richmond Thomas MacGregor	*Milwaukee*	Ch.E.
Bennetts, Wendell	*Bessemer, Mich .*	E.E.
Bergstrom, Harvey William	*Withee*	E.E.
Birkenwald, Edward	*Milwaukee*	C.E.
Blair, Donald Shattuck	*Webster Grove, Mo.*	Min.E.
Blanchar, John Eggleson	*Windsor*	C.E.
Blashfield, Floyd Artwill	*Boscobel*	E.E.
Blawusch, Robert William	*Adams*	C.E.
Boardman, Henry Cliff	*New Richmond*	M.E.
Boeck, Ralph Elmer	*Milwaukee*	C.E.
Boggs, Robert Lang	*Wichita, Kan.*	Min.E.

Bolender, John William	*Monroe*	C.E.
Bondie, Robert Eric	*Madison*	C.E.
Bowsher, Nelson Spencer	*South Bend, Ind.*	M,E.
Brandecker, August Joseph	*Nekoosa*	M.E.
Brandenburg, William Carl	*Hudson*	C.E.
Branham, Ivan	*Nashville*	C.E.
Breitrick, Wilbur Clarence	*Wausau*	E.E.
Brigham, Robert Henry	*Jump River*	C.E.
Brosin, Henry Walter	*Milwaukee*	M.E.
Buchanan, Orrin Reed	*Viroqua*	E.E.
Budworth, Benjamin Charles	*Prairie du Chien*	E.E.
Bunker, Howard Graham	*South Bend, Ind.*	M.E.
Burdick, William Stillman	*Milton*	M.E.
Burkhart, Reginald J.	*Oswego, Ill.*	E.E.
Burnett, John, Jr.	*Antigo*	M.E.
Butz, Walter August	*Milwaukee*	C.E.
Canfield, Robert Raymond	*Sparta*	E.E.
Carney, William George	*Milwaukee*	C.E.
Carpenter, Earl Frederick	*Oakfield*	E.E.
Cassell, Henry Clay	*Madison*	Ch.E.
Caton, Dwight Louis	*Eau Claire*	E.E.
Chapin, Merrill Fred	*Brooklyn*	E.E.
Chapman, Sylvan	*Cassville*	C.E.
Chellman, Ellis Percy	*Frederic*	C.E.
Churchill, William Wood	*Madison*	E.E.
Clarke, Jordan Lee	*Milton*	E.E.
Cleveland, Leslie Jay	*Aurora, Ill.*	M.E.
Comstock, Glenn Allen	*Madison*	C.E.
Conry, Clifford Elsworth	*Janesville*	E.E.
Cooley, John Charles	*Madison*	M.E.
Cotter, Sylvester Daniel	*Madison*	E.E.
Cramer, Lawrence Emery	*Slinger*	E.E.
Crane, Aloise Berne	*Adams*	Ch.E.
Crawford, Howard Dean	*Wausau*	E.E.
Crowell, Arthur Burnell	*Park Ridge, Ill.*	Ch.E.
Custer, George Warren	*Kenosha*	E.E.
Custer, Lester Samuel	*Kenosha*	E.E.
Dahlem, Vern Cornelius	*Madison*	E.E.
Daly, Francis Gerald	*North Lake*	C.E.
Dannewitz, Harold Edwin	*Aurora, Ill.*	Ch.E.
Davidson, William Herbert	*Milwaukee*	M.E.
Davies, Edward Vernon	*Wichita, Kan.*	E.E.
Day, William Theodore	*Pocahontas, Iowa*	Ch.E.
Dean, W. Hayden	*Ladysmith*	E.E.
Decker, Andrew Hurlbut	*Fond du Lac*	E.E.
Deering, Otto Federick	*Madison*	M.E.
De Horn, Conrad Edward	*White Lake*	E.E.
Deininger, Walter Carl	*Monroe*	E.E.
Devine, George William	*Ontario*	E.E.

Dickerman, Herbert Arthur	*East Troy*	M.E.
Doepke, Fred Charles	*Milwaukee*	M.E.
Dopp, John	*Madison*	E.E.
Drake, Leslie Peter	*Poynette*	E.E.
Dyer, Vernon Henry	*Omro*	E.E.
Earle, Robert Lindsay	*Janesville*	M.E.
Eduardes-Ziegenhagen, Arthur W.	*Milwaukee*	C.E.
Edwards, William Henry	*Barron*	E.E.
Effland, Lyle Wright	*Moline, Ill.*	C.E.
Ekern, George Lewis	*Madison*	E.E.
Eliason, Oscar Leonard	*Sayner*	C.E.
Ellicott, Ernest Ellsworth	*Minneapolis, Minn.*	M.E.
Engelhorn, Willard	*N. Fond du Lac*	E.E.
Engelking, Chester Arthur	*Sheboygan*	E.E.
Erickson, Newell Lamont	*Mondovi*	Ch.E.
Everett, Richard Edmonston	*Madison*	E.E.
Fenn, LeRoy William	*Sheboygan*	C.E.
Fenton, Elmer George	*Fond du Lac*	E.E.
Ferris, Robert Gaye	*Harvard, Ill.*	E.E.
Finch, Clayton Lindsay	*Random Lake*	E.E.
Flanders, Jack Gilbert	*Oconto*	Ch.E.
Floore, William Ragland	*Columbus*	M.E.
Forster, George	*Madison*	M.E.
Fossum, Harold	*Frederic*	E.E.
Fottler, Forrest Merroll	*Wauwatosa*	E.E.
Frackelton, William Bright	*Lead, S. D.*	E.E.
Frasch, Albert Hilary	*Two Rivers*	E.E.
Fulton, Donovan Harold	*Beloit*	C.E.
Gage, Russell Emery	*Whitewater*	C.E.
Garland, John Daniel	*Sturgeon Bay*	E.E.
Gerberich, Myron Raymond	*Aurora, Ill.*	Ch.E.
Gerks, Irvin Herman	*New London*	E.E.
Geseland, Alfred Ernest	*Janesville*	E.E.
Giesen, Irving Walter	*Superior*	C.E.
Gilster, William Herman	*La Crosse*	E.E.
Goers, Henry William	*Milwaukee*	C.E.
Grad, Harold	*Milwaukee*	M.E.
Green, Herbert Walter	*Moline, Ill.*	E.E.
Green, Willard Oliver	*Middleton*	C.E.
Grzybowski, George	*Green Bay*	E.E.
Guetzlaff, Irwin August Emil	*Ft. Atkinson*	C.E.
Gundisch, Guido Michael	*Milwaukee*	E.E.
Gustafson, Howard William	*Rockford, Ill.*	Ch.E.
Guzman, Simeon Reyes	*Bulacan, P. I.*	E.E.
Haas, Matthew	*Alois*	M.E.
Hagemann, John Foster	*Ft. Atkinson*	C.E.
Halls, James Winslow	*Winnipeg, Canada*	C.E.
Halls, Philip Pierce	*Winnipeg, Canada*	C.E.
Hansen, Donald Frary	*Evansville*	E.E.
Hansen, Einar Theodore	*Thorp*	M.E.

Harker, Dave Leece	*Argyle*	C.E.
Hart, Harold Eugene	*Sturgeon Bay*	E.E.
Harting, Frederic Burton	*Elwood, Ind.*	M.E.
Heald, Abner Anthony	*Sheboygan Falls*	C.E.
Heian, Theodore	*Stanley*	E.E.
Heineke, Emil	*Kilbourn*	C.E.
Hemes, Edward Charles	*Port Washington*	E.E.
Hickok, Neil Roberts	*Madison*	M.E.
Hidde, Leo August	*Oconto*	E.E.
High, Clayton Edward	*Neillsville*	E.E.
Highleyman, Charles Day	*Janesville*	E.E.
Hillis, Leonard Folsom	*Marinette*	Ch.E.
Hinrichs, Walter Lloyd	*Verona*	E.E.
Hintz, Roland Robert	*Sheboygan*	C.E.
Hochberg, Mortimer Robert	*Chicago, Ill.*	Ch.E.
Hoffman, Raymond F.	*Plymouth*	E.E.
Holmes, Frank Leslie	*Waco, Tex.*	C.E.
Holst, Eugene Christian	*Madison*	E.E.
Homewood, Robert Thomas	*Madison*	C.E.
Hone, Edwin Fabian	*Racine*	E.E.
Horst, Arthur John	*Madison*	C.E.
Hummel, Stuart Kenneth	*Janesville*	E.E.
Hunt, Kenneth Edward	*Weyauwega*	E.E.
Hurtley, Greay	*Mondovi*	E.E.
Huxley, Walter	*Chicago, Ill.*	Ch.E.
Ihde, Albert Julious	*Kilbourn*	C.E.
Isabella, Joseph James	*Spooner*	C.E.
Jaseph, Lawrence Flower	*Green Bay*	M.E.
Jeffrey, Elton William	*Cuba City*	Ch.E.
Jenison, Ray Charles	*Davenport, Iowa*	C.E.
Jennings, Edgar Bloomfield	*Stroudsburg, Pa.*	Min.E.
Johnson, Clarence Wesley	*Racine*	M.E.
Johnson, Enear Albert	*Niagara*	C.E.
Johnson, Frederick Milton	*Freeport, Ill.*	E.E.
Johnson, Mark Frederick	*Eagle River*	E.E.
Johnson, Oscar Wilhelm	*Rhinelander*	E.E.
Jones, Paul Webster	*Albert Lea, Minn.*	C.E.
Jordon, Roy DeWitt	*Wyeville*	E.E.
Juneau, Fred Charles	*Milwaukee*	E.E.
Junge, Edward Carl	*Appleton*	M.E.
Kahn, Irving Ralph	*Waukesha*	C.E.
Kennedy, Dougald Fay	*Amery*	C.E.
King, Harold Edward	*Wautoma*	C.E.
Kirby, John Timothy	*Montreal*	E.E.
Klassy, Edwin	*New Glarus*	M.E.
Kloser, Marcellus Paul	*Cassville*	Min.E.
Koos, Paul Vincent	*South Bend, Ind.*	E.E.
Kotz, Samuel Elwin	*Monroe*	C.E.
Kremski, Edward Stanley	*Milwaukee*	E.E.

Krueger, Carl G.	*Oakfield*	C.E.
Krueger, Gustav Adolf	*Wautoma*	C.E.
Kullman, Earl Louis	*Milwaukee*	Ch.E.
Kyhos, Anton F., Jr.	*Mosinee*	C.E.
Lambrix, Percival James	*Hurley*	E.E.
Landwehr, Edgar Albert	*Sheboygan*	C.E.
Larson, Lawrence John	*Madison*	E.E.
Lawton, Charles Augustus	*Depere*	M.E.
Ledin, Carl Birger	*Rockford, Ill.*	C.E.
LeFevre, Robert Alexander	*Green Bay*	E.E.
LeMay, Neil Howard	*Cobban*	M.E.
Lenfestey, Frederick John	*De Pere*	C.E.
Leonard, Royal	*Waco, Texas*	C.E.
Levin, Jacob	*Milwaukee*	E.E.
Lewis, Herbert Murray	*Fond du Lac*	C.E.
Lidicker, William Zander	*Milwaukee*	C.E.
Ligh, David R.	*New Darp, N. Y.*	M.E.
Lindahl, Carl G.	*Dawson, Yukon, Alaska*	E.E.
Litow, Max	*Milwaukee*	C.E.
Little, George Moody	*Rockford, Ill.*	M.E.
Lounsbery, John Combs	*Cornell*	M.E.
Lueders, Bernhard Carl	*Columbus*	E.E.
McFarlane, Donald J.	*Janesville*	M.E.
McFarlin, Robert William	*N. Milwaukee*	E.E.
McNeight, Everett Richard	*Stratford*	E.E.
McNellis, Frank, Jr.	*Elmhurst, Ill.*	Ch.E.
MacRae, Norman Donald	*Goddman*	E.E.
Mackin, Hugh Fuller	*Madison*	E.E.
Mader, Howard Grant	*Winchester, Ill.*	Min.E.
Maloof, George	*Stoughton*	E.E.
Martin, Herman Julius	*Milwaukee*	M.E.
Mather, Harold Marshall	*Merrimac*	E.E.
Matthews, Charles William	*Milwaukee*	C.E.
Mattson, Paul Wallice	*Madison*	C.E.
Mayo, Frank Telling	*Milwaukee*	E.E.
Meade, Hilary William	*Montreal*	E.E.
Meeowsen, Quentin Joseph	*Oconto*	C.E.
Miller, Armin William	*Milwaukee*	C.E.
Miller, Edwin W.	*Kaukauna*	C.E.
Miller, Lester Leroy	*Madison*	E.E.
Millermaster, Ralph Anthony	*Milwaukee*	E.E.
Minskey, Arnold Sylvester	*Wautoma*	C.E.
Montgomery, Lyell Starkweather	*Evansville*	E.E.
Morack, Marvin Melvin	*New London*	E.E.
Moran, Raymond John	*Soldiers Grove*	C.E.
Morgan, Hudson	*Madison*	M.E.
Morgan, Walter Alexander	*Rockford, Ill.*	C.E.
Morris, Roger Eugene	*Chicago, Ill.*	M.E.
Morris, Wendland Beverly	*Kilbourn*	C.E.

Morton, Benjamin Frank	*Rhinelander*	E.E.
Muegge, Walter Henry Adam	*Lake Geneva*	C.E.
Murray, Allan Ronald	*Pepin*	E.E.
Murray, Vernon Moffatt	*New Westminster, B. C.*	E.E.
Myers, James Walter, Jr.	*Kenosha*	C.E.
Myshka, Edwin Joseph	*Wausau*	C.E.
Nash, Edwin Nelson, Jr.	*Galesburg, Ill.*	C.E.
Neess, Carl J.	*Milwaukee*	C.E.
Neill, William Folsom	*Lodi*	C.E.
Nesslar, Louis Casper	*Lake Geneva*	E.E.
Newman, Harold Clement	*Racine*	C.E.
Norris, Leighton Cyrus	*Madison*	E.E.
Norton, John Barge	*Connellsville, Pa.*	Ch.E.
Oettmeier, Arnold George	*Ft. Atkinson*	C.E.
O'Gara, William James	*Spooner*	Ch.E.
O'Laughlin, Michael Jerome	*Randolph*	E.E.
Oldenburg, Carl Robert	*Wausau*	E.E.
Olwin, Count Campbell	*Robinson, Ill.*	E.E.
Owen, John Foster	*Stevens Point*	Ch. E.
Peacock, Ernest Maxwell	*Cuba City*	C.E.
Peale, Ellwyn Eugene	*Natchez, Miss.*	M.E.
Peters, Norman Julius	*Plymouth*	M.E.
Piatt, Charles Burton	*Ft. Wayne, Ind.*	Ch.E.
Pierce, Solon Wesley	*Friendship*	C.E.
Pilger, Clarence Lloyd	*La Crescent, Minn.*	E.E.
Piltz, Arthur Wilmer	*Rudolph*	C.E.
Pope, Christian Anton	*Oshkosh*	C.E.
Quantock, Clarence James	*Aurora, Ill.*	E.E.
Radtke, Laurence Vernon	*Fond du Lac*	E.E.
Rehwinkel, Norman Gordon	*Milwaukee*	C.E.
Reinert, Albert Henry	*Lake Geneva*	M.E.
Reisse, George Fredrick	*West Bend*	Ch.E.
Rentschler, Fred M.	*Madison*	M.E.
Reynoldson, Roland George	*Sioux Falls, S. D.*	M.E.
Richardson, Francis Joseph	*Appleton*	Ch.E.
Ricker, William John	*Appleton*	E.E.
Risser, Andrew Allen	*Fountain City*	E.E.
Ritter, Paul R.	*Milwaukee*	Min.E.
Robinson, Harrison Page, Jr.	*Wauwatosa*	E.E.
Rotter, Henry	*Milwaukee*	C.E.
Rubinstein, Harry William	*Milwaukee*	E.E.
Ruf, Harold William	*Green Bay*	C.E.
Saari, Toivo Hjalmar	*Montreal*	E.E.
Samuels, Theodore Paul	*Okauchee*	E.E.
Sanborn, Wilfred Alden	*Waupun*	C.E.
Sargent, David Clement, Jr.	*Fond du Lac*	C.E.
Scheil, Merrill Adam	*Appleton*	Ch.E.
Schilke, Ralph Frank	*Green Bay*	M.E.
Schilstra, George Sydney	*Kilbourn*	C.E.
Schlundt, Hayes Coates	*Evanston, Ill.*	M.E.

Schmierer, William Henry	*Milwaukee*	C.E.
Schuerman, Raymond William	*Milwaukee*	C.E.
Schulz, Otto Bernard	*Racine*	C.E.
Schwegler, Henry John	*Janesville*	E.E.
Schwoerke, Orville Lamont	*Oklahoma City, Okla.*	C.E.
Scorgie, Robert	*Redgranite*	E.E.
Seeman, Lyle Edward	*Janesville*	E.E.
Senft, Henry Balthaser	*Rio*	E.E.
Severson, Norman Arthur	*Cambridge*	C.E.
Shafer, Samuel Parker	*Milwaukee*	C.E.
Shaw, Kenneth Paul	*Madison*	E.E.
Shoresman, Allen Morris	*Washburn*	E.E.
Smalling, Ira	*Cleveland, Tenn.*	E.E.
Smallshaw, John	*Milwaukee*	E.E.
Smith, Dorland	*New Carlisle,Ind*	Ch.E.
Smith, Lloyd Albert	*Mondovi*	E.E.
Smith, Richard Albert	*Linden*	C.E.
Smith, Ronald Rubin	*Janesville*	M.E.
Soderberg, Clyde Albert	*Iron River, Mich.*	E.E.
Sorenson, Gerhard Johan	*Westby*	C.E.
Soulen, Roger John Henry	*Kenosha*	M.E.
Spencer, Albert Washington	*Langlade*	E.E.
Splees, William Gotthold	*Waterloo*	E.E.
Stehr, Arthur Carl	*Madison*	Ch.E.
Steinbrinck, Lester	*Baraboo*	C.E.
Steinweg, Walter Rudolph	*Reedsburg*	C.E.
Steuber, William Floyd	*Madison*	C.E.
Stewart, Douglas Ley	*Madison*	Ch.E.
Stewart, Wilbur Douglas	*Ironwood, Mich.*	E.E.
Stowers, James Caleb	*Natchez, Miss.*	M.E.
Stuckmann, Roland Carl	*Sheboygan Falls*	M.E.
Swann, Ray Renaldo	*Brodhead*	E.E.
Tagatz, George Herman	*Neshkora*	C.E.
Teare, Benjamin Richard	*Menomonie*	M.E.
Teich, Frederic Mueller	*Milwaukee*	C.E.
Thayer, Neal Burton	*Antigo*	E.E.
Thompson, David William	*Ashland*	M.E.
Thompson, Lloyd Chester	*Sparta*	M.E.
Thomsen, Darrel Ecke	*Fond du Lac*	C.E.
Thordarson, Trig	*Chicago, Ill.*	E.E.
Thwaits, Charles W.	*Milwaukee*	M.E.
Tobey, Silas B., Jr.	*Wausau*	E.E.
Tobiessen, Fridtjof	*West Allis*	C.E.
Toellner, Edward Meyer	*Madison*	E.E.
Tolson, James Samuel	*Chicago, Ill.*	Ch.E.
Ulrich, Spencer Edward	*Neenah*	C.E.
Ungrodt, Armin Luther	*Medford*	E.E.
Vallee, John Wilson	*Milwaukee*	M.E.
Vander Brug, Peter	*Union Grove*	E.E.

Verplank, Wilbur Joseph	*Gray, Ind.*	C.E.
Weathers, William Mickle	*Madison*	Ch.E.
Westrich, Charles John	*River Forest, Ill.*	C.E.
Weyrough, Robert Clarence	*Burlington*	M.E.
Wheeler, Graydon George	*Pepin*	E.E.
Whitcomb, Walter Edward	*Green Bay*	E.E.
White, Charles Safford	*Oak Park, Ill.*	M.E.
White, Donald Owen	*Chicago, Ill.*	C.E.
White, Roland Frederick	*Washington, D. C.*	Min.E.
Whitmore, Harland William	*Beloit*	E.E.
Wickham, Walter Leo	*Eau Claire*	E.E.
Wilcox, Frederick Brehmer	*Madison*	C.E.
Wilkinson, John Beebe, Jr.	*Louisville, Ky.*	E.E.
Williams, Millard Joseph	*Racine*	M.E.
Wipperfurth, August John	*Madison*	E.E.
Wollaeger, Louis Adam	*Milwaukee*	E.E.
Woolverton, John Jacob, Jr.	*South Bend, Ind.*	M.E.
Wright, William Everett	*Ironwood, Mich.*	C.E.
Youell, Raymond	*Lake Geneva*	E.E.
Youngs, Kenneth Wilson	*Milwaukee*	M.E.
Zaborowsky, Adolph Joseph	*Racine*	M.E.
Zetterlund, Herbert Ferdinand	*Milwaukee*	E.E.
Zeugner, Orland Kump	*Ft. Atkinson*	C.E.
Zinn, Robert Edwin	*East Troy*	Ch.E.
Zoellner, Alfred Mathew	*Waupun*	Min.E.
Zola, Stanley Peter	*Two Rivers*	C.E.

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Adult Specials

Colbert, Thomas Peter	*Chicago, Ill.*	M.E. Sphomore
Erskine, Arthur James	*Jacksonport*	E.E. Sophomore
Leeders, James Clark	*Mountain Grove, Mo.*	E.E. Freshhman
Marquardt, Edwin Gottlieb	*Milwaukee*	Ch.E. Freshman
Nelson, Elmer Harry	*Racine*	E.E. Sophomore
Novotny, Raymond	*Oshkosh*	C.E. Freshman
Poole, James Martin	*Smithville Flatts, N. Y.*	Ch.E. Sophomore
Thackaberry, Forrest Gregg	*Madison*	E.E. Freshman

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LAW SCHOOL

Third Year

Anderson, Rudolph	*Superior*
Ansfield, Arnold Joseph	*Milwaukee*
Arnold, Lyman Kent	*Madison*
Arnold, Suel Orr	*Ingram*
Beyer, Adelbert John, M.A.	*Milwaukee*
Brewington, Russell Dumas	*Madison*
Brown, Lloyd Joseph	*Madison*
Burke, Thomas Nichols	*West DePere*
Burlingame, Leroy James, B.A.	*Madison*
Callahan, Kevin John	*Montello*
Christianson, Carl	*Deerfield*
Christianson, Oscar, B.A.	*Beloit*
Clark, Farnham Adelbert	*Menomonie*
Collipp, William Fulton	*Portage*
Conley, Paul Bernard	*Darlington*
Cooper, Claude Fenimore	*Superior*
Dahl, A. Walter	*Superior*
Draeb, August Edward	*Sturgeon Bay*
Ells, Robert Borden	*Rockford, Ill.*
Fischer, Lyman Frank	*Two Rivers*
Fritschler, John Curtis	*Sturgeon Bay*
Frye, Miriam Louise, B.A.	*Madison*
Goodman, Emanuel Milton	*Milwaukee*
Goodman, Leo John	*Kendall*
Greco, Charles	*Chicago, Ill.*
Gregg, Ashton Carter, B.A.	*Decorah, Iowa*
Hartwig, Harold William	*Watertown*
Herriot, Maxwell Haines	*Des Moines, Iowa*
Hiken, Charles	*Milwaukee*
Hooker, Edward Wight	*Waupun*
Janisch, William Jenning Bryan	*Waterloo*
John, Federic Charles	*Milwaukee*
Jones, Russell Phillips	*Edgewood, R. I.*
Karon, Morris	*Superior*
Katowitz, Harry James	*Kenosha*
Kletzien, Elmer Abraham	*New Holstein*
Knudson, Sidney	*Sturgeon Bay*
Korth, Earl Albert	*Eagle River*
Kraege, Frederick Halsey, Ph.B.	*Madison*
Lepkosky, Charles A.	*Kenosha*
Martineau, John Baptiste	*Oshkosh*
Martineau, Thomas Bourgoine	*Oshkosh*
Meyer, Eugene Paul	*Milwaukee*
Moreau, Frederick James, Ph.B.	*Casco*
Mosher, Herman Alexander	*Milwaukee*

O'Neil, Daniel Callahan	*Chippewa Falls*
Park, Allan Lamoreaux	*Stevens Point*
Paulsen, Paul Hillward	*Madison*
Persons, Harold Hepkins	*Janesville*
Peterson, Carl Edwin, B.A.	*Menomonie*
Reitan, Rudolph Norman, B.A.	*Bonduel*
Reynolds, Thomas Arthur	*Madison*
Roberts, Arthur Owen	*Superior*
Roberts, David Webster	*Superior*
Schenk, Gustave Paul	*Shawano*
Schmidt, Herman Arthur ls	*Columbus*
Sells, Athur Max	*Florence*
Seymour, William Lester	*Oshkosh*
Sigma, Samuel	*Two Rivers*
Slagg, Lowell Silverwood	*Edgerton*
Slagg, Stanley Wilmer	*Edgerton*
Snodgrass, Philip Milton	*Janesville*
Stephens, Dwight Sheldon	*Cuba City*
Thomas, Henry	*Madison*
Thompson, John Reginald	*Madison*
Thorson, Arthur Thomas	*Eau Claire*
Torphy, Michael Bryan	*Milwaukee*
Walozak, Bruno	*Milwaukee*
Walker, Beatrice	*Madison*
Werner, Victor Davis	*Shawano*

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Second Year

Abramson, Barney	*Chippewa Falls*
Anschuetz, William Joseph	*Boscobel*
Axley, Ralph Emerson, B.A.	*Seymour*
Beggs, Lyall T.	*Rice Lake*
Bunde, Herbert Albert	*Wisconsin Rapids*
Carlson, Harry Vladimir	*Kenosha*
Cattau, Louis William, B.A.	*Shawano*
Choinski, Walter Francis, Jr.	*Milwaukee*
Conners, Randolph Rogers	*Chippewa Falls*
Cosgrove, Frank William	*Fond du Lac*
Cristman, Ezra Dormer	*Milwaukee*
Currie, George Robert	*Montello*
Davis, George Cundall, B.A.	*Milwaukee*
Denyes, Lawrence Owens, B.S. g	*Appleton*
Dorau, Armin Carl ls	*Madison*
Edelson, Nathan	*Oshkosh*
Fitch, Logan Dallas	*Madison*
Gallagher, Don Francis	*Madison*
Gardner, William McHard	*Huron, S. D.*
Gill, Earle Francis, B.A.	*Madison*
Gollmar, Robert Howard	*Baraboo*

Grelle, Robert Charles B.A.	*Madison*
Higgins, Irene, M.A.	*Eagle River*
Jonas, Fred Charles	*Mishicot*
Klos, Henry William	*Madison*
Kriesner, Lionel Ira	*Green Bay*
Levin, Frank K.	*Wisconsin Rapids*
Luther, James Franklin	*Stanley*
Meyer, Adeline Josephine	*Madison*
Monfried, Mayor Bernard	*Madison*
Morse, Herbert	*Milwaukee*
Peck, Egon Waldemar	*Milwaukee*
Petersen, Ralph Henry, B.A.	*Milwaukee*
Peterson, Frederick Russell	*Florence*
Rathge, Bertram	*Beloit*
Reid, George Walker, B.A.	*Harvard, Ill.*
Rieselbach, L. LeRoy J.	*Milwaukee*
Roick, Virgil Henry, B.A.	*Baraboo*
Rosenbaum, Ralph K.	*Milwaukee*
Schmidt, Victor O.	*Plymouth*
Schumacher, Earl Emerson	*Beaver Dam*
Sigman, Abraham	*Two Rivers*
Soref, Samuel Meyer ls	*Milwaukee*
Tacki, J. Harold	*Kenosha*
Thompson, Earl J. ls	*Cottage Grove*
Thompson, John Cameron, B.A.	*Oshkosh*
Torrison, Mandt	*Manitowoc*
Trowbridge, Fred Newell, B.A.	*Viroqua*
Vance, George Sheldon	*Chicago, Ill.*
Weller, Horace L.	*Fond du Lac*
Wood, Norman Edward, B.A.	*Berlin*

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First Year

Abrahams, Abe A.	*Green Bay*
Adams, Lawson M.	*Kenosha*
Alder, Rodney Carl	*Monroe*
Anderson, Calmar Thorpin ls	*Chippewa Falls*
Bachhuber, Harold Alfred	*Juneau*
Benett, Ross Harley, B.A.	*Endeavor*
Berkoff, Louis Solomon	*Milwaukee*
Bieberstein, Adolph Joseph ls	*Phillips*
Blake, Henry Warren ls	*Waupaca*
Bogue, Everett Alan ls	*Poynette*
Bostwick, Harold King	*Chandon, Ohio*
Brazy, Joseph Phillip	*Menomonie Falls*
Buchbinder, James	*Milwaukee*
Bullinger, Frank Bauer	*Oshkosh*
Carter, Clinton Lyle ls	*Castlewood, S. D.*

Chase, Lucius Peter, B.A.	*Madison*
Cheever, Herbert Edward	*Brookings, S. D.*
Clemons, Lester	*Madison*
Closway, Gordon R.	*Merrillan*
Cockfield, Douglas W.	*Janesville*
Conners, Richmond Barker	*Chippewa Falls*
Damon, Robert Hosken	*Madison*
Davidson, Roy Clifford	*La Crosse*
Desmond, John William ls	*Milwaukee*
Dietrick, George Earl	*Madison*
Doyle, Cecilia Mary Ellen	*Fond du Lac*
Egan, John Ryan	*Sturgeon Bay*
Egan, Oswald Richard ls	*Highland*
Farr, Donald Lewis	*Eau Claire*
Fiedler, George Joseph	*Mineral Point*
Field, Ted Howard ls	*Rice Lake*
Fuller, Henry Chester ls	*Whitewater*
Gamroth, Joseph Claude	*Independence*
Gibson, Obie Edward, B.S.	*Madison*
Grelle, Edward Christopher	*Prairie du Chien*
Goodman, Bert Benjamin	*Milwaukee*
Grover, Frank H.	*Galesville*
Haider, Donald Harold	*Madison*
Hanson, Russell Edgar	*Scandinavia*
Harrington, John Timothy	*Madison*
Hazelwood, Clark ls	*Madison*
Heise, Cornelia Dorothea ls	*Madison*
Hendry, Allan Penfield ls	*Madison*
Hinman, Sturtevant ls	*Winnetka, Ill.*
Holmes, Robert Francis	*Baraboo*
Hopkins, Bert Earl ls	*Centuria*
Hurley, John Joseph	*Milwaukee*
Hurwitz, Merwyn I. ls	*Milwaukee*
Inman, Arthur Charles	*Whitewater*
James, Charlton Hughes	*Montfort*
Jensen, Alfred H., B.A.	*Madison*
Johnson, Roswell Browand ls	*Gary, Ind.*
Keith, George Mason ls	*Dalton*
Kovenock, Harry Aaron	*Milwaukee*
Lamb, Leslie Francis	*Madison*
Lange, George Frederick	*Columbus*
Leberman, Fulton Herman ls	*Sheboygan*
Levitin, Simon Samuel ls	*Madison*
Lewis, Helmar Ariel	*McFarland*
Linke, Blaine M.	*Beloit*
McEachen, Howard Donald	*Wayne, Neb.*
Mayer, John Charles	*Two Rivers*
Meyer, Sheldon Eugent	*Madison*
Moor, Raymond Jennings	*Milwaukee*

Morse, Wayne Lyman, B.A. g	*Madison*
Murphy, Edwin Brookfield	*Sterling, Ill.*
Newcomb, Don Carlos, B.A.	*Waupun*
Nicol, Floyd Shumway	*Superior*
Nicolaus, Alfred Herbert ls	*Ft. Atkinson*
Olson, Harold Dewey	*Hudson*
Page, Jennings Butler	*Spooner*
Paquette, Oscar Joseph	*Shullsburg*
Pedderson, Cliff. A.	*Madison*
Petrie, Arthur Julius, B.A.	*Franklin Grove, Ill.*
Porter, Howley Vinton ls	*Miles City, Mont.*
Price, Frederick Prescott, Jr. ls	*Milwaukee*
Quilty, Francis Cyril ls	*Madison*
Randall, Christian John ls	*Woodville*
Rogers, Barton Joseph	*Oshkosh*
Ruediger, George Paul, B.A.	*Fountain City*
Ruffolo, Fred, B.A.	*Racine*
Rusterholz, Carl Henry,, B.A.	*Manitowoc*
Rynders, Richard Roland	*Madison*
Scheier, Joseph Burr ls	*Milwaukee*
Schmege, Oscar John ls	*Appleton*
Seering, Harold Albert ls	*Shawano*
Shapiro, Leo Sidney	*Madison*
Sporer, Harold Joseph ls	*Manitowoc*
Staplekamp, Judson William	*Holland, Mich.*
Stevens, Myron Ray, B.A.	*Madison*
Thompson, Gena, Ph.B.	*Hudson*
Thompson, Robert Reese ls	*Oshkosh*
Tomsich, Mario Benjamin, B.A. g	*Gary, Ind.*
Traynor, Bernard Philip, B.S. g	*Madison*
Trousdal, Victor Oliver	*Eau Claire*
Weber, George Edwin ls	*Youngstown, Ohio*
Whitman, Marcus ls	*Baraboo*
Wilken, Rodney Frederick ls	*Whitehall*
Williams, Eugene Griswold ls	*Oshkosh*
Williams, H. Glynn	*Racine*
Wood, Willis	*Appleton*

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Law Unclassified

Bancroft, Blaine De Lap	*Milwaukee*
Barteau, Glenn W.	*Madison*
Chapin, William Judd	*Evansville*
Clough, Cecil Edward	*Greenland, N. H.*
Frenchick, Edward William	*Weyerhauser*
Humphrey, Edward Emmett	*Wild Rose*
Johnstone, Rowen Thompson	*Reedsburg*
Lee, Morton Anderson	*Stoughton*

Merriam, Allison William	*Madison*
Palmer, Roy George	*International Falls, Minn.*
Reeve, Robert C.	*Waunakee*
Schwellenbach, Edgar W.	*Madison*
Skrentny, Cecilia Mary	*Indiana Harbor, Ind.*
Stearns, Roswell Noel	*Milwaukee*
Wendt, Francis Harry	*Sturtevant*
Wright, Robert Raymond	*Ironwood, Mich.*

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COLLEGE OF AGRICULTURE

Long Course

Seniors

Beier, Edwin Adolph	*Rockford, Ill.*
Benson, Irving Milton	*Iola*
Brown, Leland Palmer	*Sturgeon Bay*
Bunce, Elsworth William se	*Milwaukee*
Bussan, Urban George se	*Cuba City*
Butler, Richard se	*Horicon*
Caldwell, Lester Earl se	*Morrisonville*
Callenbach, Ernest William	*Virginia Beach, Va.*
Chu, Tso Yung	*Hankow, China*
Clements, Harry Francis se	*La Crosse*
Colby, Harold Leslie	*Madison*
Comstock, Gilbert William	*Oshkosh*
Corbett, Kenneth Hughes	*Appleton*
Crane, Charles Percy	*Oshkosh*
Crow, Thomas William	*Platteville*
Dahl, Stanley Gustaf	*Chicago, Ill.*
Dahl, Carl Arnold S.	*Superior*
Davis, Erwin Frederic	*Rockford, Ill.*
Dennerlein, Arno Alfred	*Plymouth*
Dickson, Allan David	*Moxee City, Wash.*
Dudley, John Edward, Jr.	*Madison*
Eiseman, Charles	*Chicago, Ill.*
Flueck, Herbert Allen	*La Crosse*
Ford, Thomas Howard se	*Livermore, Ky.*
Fritschl, Roland Godfrey	*Milwaukee*
Fulton, Franklin Davis	*Baltimore, Md.*
Goodrich, Charles Victor	*Lone Rock*
Goss, Victor Vayne se	*Mondovi*
Gregor, George Valentine se	*Algoma*
Gunderson, Frank Lester	*Madison*
Hagen, Arthur Enoch se	*Mauston*
Hastings, Barbara	*Atchison, Kan.*
Heal, Bryon Franklin	*Marshfield*

Heggestad, Ernest J.	*Hollandale*
Henika, Franklin Sinclair	*Madison*
Iverson, Clarence Frederick	*Kenosha*
Jenny, Gerald	*Milwaukee*
Johnson, Gustavus Emil se	*Boyceville*
Johnson, Tracy Worden	*Waupaca*
Jones, David Caradoc	*Cambria*
Kletzien, Seymour W. Federic	*New Holstein*
Klosterman, Adolph Henry	*Shawano*
Koch, Aaron Irwin	*Osceola*
Lathrope, Howard Roswell se	*Wauzeka*
Legrid, Lester Ira	*Deer Park*
Liu, Hsing-Chi	*Hankow, China*
Lochaya, Nai Chuang	*Bangkok, Siam*
Logan, Ward Thomas	*Warsaw, Ind.*
Longenecker, George William	*Neillsville*
Looker, Arthur Ray se	*Madison*
Maldaner, Theodore	*Watertown*
Matteson, Stephen Halsey	*Chicago, Ill.*
Mellor, Milton Edward se	*Delavan*
Mohr, Charles Alan	*Madison*
Murphy, Harold Edward se	*Delavan*
Murwin, Herbert Franklin	*Edgerton*
Oertel, Everett se	*Prairie du Sac*
Osius, William Frederick se	*Plymouth*
Otterson, Henry	*Deer Park*
Pallett, Raymond Benjamin	*Fennimore*
Parmele, Harris Barnum	*Rockford, Ill.*
Pederson, Carl Severin	*Tunnel City*
Pelnar, Joseph Edward se	*Kewaunee*
Phelps, Charles Fenton	*Madison*
Polivka, Joseph Bernard	*Coloma*
Price, Ferdinand Theodore se	*Amherst*
Ralph, Robert Osborne se	*Montfort*
Read, John Chinn	*Porter, Ind.*
Reinhold, John Gunther	*Milwaukee*
Renk, Walter Frank	*Sun Prairie*
Rinear, Earl Harmon	*Brecksville, Ohio*
Rohrbeck, Edwin Herman se	*Cambria*
Sabin, Samuel Henry	*Academy, S. D.*
Scarseth, George Dewey se	*Galesville*
Schaars, Marvin Arnold se	*Merrill*
Schneider, Earl Edward se	*Madison*
Sears, Verlyn Fred	*Neillsville*
Skaife, Charles William se	*Livingston*
Sly, Keith Chester	*Blair*
Smith, Edward Magruder	*Chicago, Ill.*
Smith, Hugo Genin se	*Madison*
Smithyman, Ralph Pendleton	*Wauwatosa*

Stephens, Henry Le Roy se	*Dodgeville*
Stevens, Theodore	*Viroqua*
Stiles, Hugh Raymond	*Lake Mills*
Stinchfield, Roswell Herrick	*Waupaca*
Titzlaff, Glynden Stelzer se	*Mishicot*
Thatcher, Paul Alexander	*Danbury*
Thomsen, Louis Charles	*Madison*
Tollefson, John McKinley	*Madison*
Trumbower, Irvin Royce	*Shell Lake*
Ullrich, Felix Helmuth se	*Burkhardt*
Vandrell, Earl Felix se	*Sturgeon Bay*
Viste, Ingwald Oscar se	*Sawyer*
Wachlin, Frank Emil se	*Wonewoc*
Wackman, Ralph Bruce	*Brooklyn*
Wade, Gerald Charles	*Wauwatosa*
Wahle, LeRoy Louis	*Davenport, Iowa*
Wentworth, William Norris	*Madison*
Wileden, Arthur Frederick se	*Pewaukee*
Wilkinson, Frank se	*Benton*
Wilson, Edward Elmer	*Burkesville, Ky.*
Wiseman, John Wesley se	*Benton*
Wolverton, Earl Martin	*Oshkosh*

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Juniors

Anderson, John Parmor	*Oconto Falls*
Anderson, Oscar E.	*Oconto Falls*
Arneson, Edgar	*Barneveld*
Arnold, Sam James	*Madison*
Bartels, Roland Oscar	*Sheboygan*
Bawden, Rogers	*Arena*
Becker, Harvey Lawrence	*Galesville*
Bollinger, Paul E.	*Sharon*
Boughton, Elmer Christie	*Ashland*
Bradley, Gervase Dynes se	*Lindsey*
Bray, Clarence Eugene	*Cobb*
Brereton, Ione	*Dane*
Brown, Carlton Newbre	*Rhinelander*
Buse, Leslie August	*Beloit*
Carew, Alvin Dennis	*Chippewa Falls*
Castner, Russell se	*Loyal*
Chandler, Fergus George	*Madison*
Cleary, Thomas Louis	*Dubuque, Iowa*
Cooper, Austin Augustin, Jr	*Platteville*
Crutcher, Frank Douglas se	*Carrollton, Ky.*
Culbertson, Eldred Small	*Seymour*
Doyon, Bertrand Herrick	*Madison*
Ehrgott, Ernst Evans	*Milwaukee*

Gibson, Earle Arthur	*Madison*
Goldman, Milton J. M.	*Milwaukee*
Gorman, David Harold	*Madison*
Harpster, John Shannon	*Freeport, Ill.*
Harris, Orville Frank	*Milwaukee*
Harrison, Robert Solon, Jr.	*Madison*
Hayes, Birchard Platt	*Clearwater, Fla.*
Helz, George Ernest	*Milwaukee*
Hill, Harry Ellsworth se	*Waldo*
Holmes, Lawrence Germain	*Beloit*
Hubin, Walter Hugo se	*Shell Lake*
Hutaff, Mildred Elise	*Wilmington, N. C.*
Johnson, Alden Leslie	*South Wayne*
Jones, Frank D. Lloyd	*Mauston*
Kaiser, John George	*Madison*
Kaufmann, Fred Henry Otto	*Sheboygan*
Kellogg, Ernest Bowman	*Yonkers, N.Y.*
*Klare, Richard Henry	*Fox River*
Kloser, George Gus	*Cassville*
Kropp, Herbert Louis	*Milwaukee*
Kuhns, Richard Jesse	*Dayton, Ohio*
La Duke, Charles Vayne	*Gilmanton*
Lewis, Carl Cecil	*Camp Point, Ill.*
Longsdorf, Lisle Leslie	*Arkansas*
Luttrell, Cassius Dewey	*Fonthill, Ky.*
McKenzie, Keith Everett	*Barneveld*
Massey, George Frederick, Jr.	*Walworth*
Murray, Hugo Andrew se	*Galloway*
Nye, Roy Frederick	*Durand, Ill.*
Oleson, Grunow Otto se	*Madison*
Payton, Earl Eugene	*Shiocton*
Pearson, Frank William	*Mooreland, Ind.*
Pellow, Leland Clifford	*Mineral Point*
Pelton, Joseph LeRoy se	*Madison*
Perry, Russell Lawrence	*Wilmette, Ill.*
Piper, George Adam	*Sharon*
Roberts, Edward John	*Cambria*
Robinson, Arthur Frederick	*Mauston*
Rogers, Howard Everett se	*Hutchinson, Minn.*
Rossow, Russell Julius	*Greenwood*
Rowland, Raymond Edgar se	*Ashmore, Ill.*
Sagen, Harry Edward	*Washburn*
Schaefer, Herbert Carl	*Brillion*
Scott, Henry Thomas	*Poynette*
Semb, Joseph	*Galesville*
Shaller, Frank Jamison	*Whitewater*
Small, George Leon	*Wauwatosa*

*Died Nov. 19, 1923

Steadman, Ralph A.	*Morecroft, Wyo.*
Stiles, Russell Simmons	*Lake Mills*
Swingle, Everett Bell	*Racine*
Tenpas, Reuben John	*Hingham*
Vaile, Joseph Edwin	*Kokomo, Ind.*
Vallejo, Senefelder Peter	*Callao, Peru, S. A.*
Van Horn, Hiram Percival	*Clinton*
Weyker, Clement Joseph	*Dousman*
White, Milton Francis	*Madison*
Wood, Harry Maxwell	*Zanesville, Ind.*
Wright, Mary Alice	*Mauston*
Zahorik, John Joseph se	*Kewaunee*

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Sophomores

Austin, Fogo Reed	*Gillingham*
Berg, Basil William se	*Dodgeville*
Boughton, Ralph Deane	*Ashland*
Bracke, George Morritz	*Milwaukee*
Chada, Harvey Lorenzo	*Green Bay*
Eggert, Floyd Herman	*Two Rivers*
Farner, Walter Carl	*Gilmanton*
Finley, Watts	*Hoopeston, Ill.*
Goers, Theodore Walter	*Milwaukee*
Hammen, Clarence Fredrick	*Ripon*
Harrison, Carter Monroe	*Wilton*
Hartwig, Alfred Carl	*Bristol*
Henry, Archibal Renwick	*Macfarland*
Hsu, Tsu Yung	*Hongchow, China*
Hughes, Edward Raymond	*Columbus*
Hull, Harold Haight	*Whitewater*
Ingebritsen, Carroll Raymond	*Madison*
Jacobs, Ralph Knolton	*Milwaukee*
Johnson, Arthur Calvin	*Elgin, Ill.*
Johnson, Arthur Oliver	*Madison*
Jorgenson, Emil Austin	*Waupaca*
Klevay, Leslie Michael	*Milwaukee*
McGraw, Harvey Benedict	*Cortland, N.Y.*
Nelson, Paul Moritz	*Superior*
Niebuhr, Clarence Edward	*Madison*
Ogden, William Butler	*Edgerton*
Ogilvie, William Edward	*Madison*
Palmer, Alfred Edward	*Madison*
Pritchard, Forrest Chester	*Propetstown, Ill.*
Reed, Russell Harlan	*Dickinson, N. D.*
Reiter, Benjamin Merrel	*Racine*
Ruste, Anton	*Mt. Horeb*
Sarles, William Brown	*Madison*
Schneider, Ernest	*Spiez, Switzerland*

Schnurr, Marlin Mark	*Kewaskum*
Schreiner, Fred Jacob	*Glen Haven*
Searls, Edward Marlborough	*Madison*
Simpkins, Mellancthon Harry	*Madison*
Webb, Rolland Blair	*Poynette*
Whitworth, Charlie Hubbard	*Mondovi*
Wigglesworth, Charles William	*Madison*
Zaumeyer, William John	*Milwaukee*

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Freshmen

Adams, Mighill Wilford	*Westby*
Allison, Donald Eugene	*McFarland*
Arbuthnot, Harold John	*Janesville*
Arndt, Chester Emil	*Neillsville*
Bain, Franklin Cooper	*Martinsville, Ind.*
Bale, Milo DeWitt	*Shullsburg*
Bice, Charles Mountjoy	*Hancock, Mich.*
Bowker, E. Stuart	*Chicago, Il.*
Brackett, Richard Alfred	*Elk Mound*
Brant, Frank Harlan	*Youngstown, Ohio*
Bricker, Joseph McLain	*Nevada, Iowa*
Buethe, Walter Carl	*Chicago, Ill.*
Butman, Burel Stark	*Galesville*
Cate, Harold Henry	*New Glarus*
Cheli, Clement Frederic	*Calumet, Mich.*
Cherdron, Irving Taylor	*Cedarburg*
Chucka, Joseph Anton	*Beaver*
Danielson, David Monfred	*Greenwood*
Delwiche, Anthony Joseph	*Green Bay*
Dougan, Trever Cranston	*Beloit*
Elmer, Randall John	*Monticello*
Ernst, Malcolm	*Chicago, Ill.*
Eves, Parvin B.	*Berwin, Ill.*
Farrell, Myrland James	*Brooklyn*
Fish, Laurens Brainerd	*Webster Groves, Mo.*
French, Arnold	*Galesville*
Gerity, James Frederick	*Mukwonago*
Gramling, Henry Jason, Jr.	*Milwaukee*
Grange, Paul Leroy	*Darlington*
Greer, Jefferson Eliot	*Chicago, Ill.*
Guthrie, Hugh	*North Milwaukee*
Harris, Warren Harold	*Baraboo*
Helgren, Clarence Leanord	*Florence*
Herpich, Arno	*Thiensville*
Hinckley, Robert George	*Milwaukee*
Holton, George Richardson	*Chicago, Ill.*
Humphrey, Norman Leslie	*Waterloo*

Jones, Elizabeth Lee	*Oak Park, Ill.*
Kartman, Emmett Chris	*Cassville*
Klement, Harlow Carl	*Fort Atkinson*
Klumb, Roy Lester	*Milwaukee*
Krippner, Carroll Porter	*Ft. Atkinson*
Kurtz, Elmer William	*Cedarburg*
Lageschulte, Verne Henry	*Barrington, Ill.*
McFarlane, Kenneth Joseph	*Janesville*
Marple, Eldon Milo	*Hayward*
Merkel, Ralph Edward	*Chicago, Ill.*
Mortensen, Bjorn Petrell	*Christiania, Norway*
Nesbitt, Eli Scribner	*Oxford*
Page, William Alfred	*Sparta*
Peterson, Lester Orlando	*Westby*
Pinney, Thomas Stedman	*Sturgeon Bay*
Roach, Gilbert Ewing	*Chicago, Ill.*
Savery, Thomas H.	*Chicago, Ill.*
Schneck, Edward Merril	*Milwaukee*
Segner, Paul Milles	*St. Croix Falls*
Sersted, Arthur Millard	*Edgerton*
Shaw, Brewster Hopkinson	*Birmingham, Mich.*
Sherbert, Hugh Otto	*Weyauwega*
Smelser, Harry Augustus	*Milwaukee*
Smith, Gertrude May	*Montclair, N. J.*
Sommer, William Albert	*Sheboygan*
Stoddard, Raymond Harold	*Richland Center*
Story, William Leonard	*Birmingham, Mich.*
Strauss, Samuel	*Chicago, Ill.*
Strommen, Arthur Malcolm	*Greenwood*
Towers, Lewis McLeish	*Portage*
Tratt, Walter Salisbury	*Whitewater*
Truesdale, Foster Earl	*Twin Bluffs*
Weiner, Louis Henry	*Columbus*
Wilke, Earl Joseph	*Milwaukee*
Wolberg, Floyd Byron	*Iola*
Woods, John Broughton	*Waterman, Ill.*

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Course in Home Economics

Seniors

Aylward, Florence Luella se	*Madison*
Baldwin, Orrel Tennant se	*Evansville*
Bartle, Vernelta Trubeht se	*Madison*
Beebe, Louise	*Sparta*
Bird, Geneva Anne se	*Madison*
Borst, Lillian Rulison se	*Schenectady, N. Y.*
Brown, Mabel Ruth	*La Grange, Ill.*

Bruss, Helen Ida se	*Lancaster*
Clow, Bertha Cochrane se	*Oshkosh*
Cobb, Helen Elizabeth	*Ft. Scott, Kan.*
Cole, Minnie Bruins	*Madison*
Corey, Helen Grace	*De Kalb, Ill.*
Crowe, Edith se	*Charleston, Ill.*
Davy, Leita	*Conneaut, Ohio*
Dickinson, Pauline Dorothy se	*Edgerton*
Duncan, Marian Logan se	*Mercer, Pa.*
Ehlert, Lucile Margaret se	*Hillsboro*
Faris, Nina Charlotte se	*Danville, Ill.*
Gay, Dorothy Trumbo se	*Ottawa, Ill.*
Gefke, Edna Marie se	*Madison*
Goddard, Hazel Mary	*Madison*
Gregg, Jennie Emily se	*Madison*
Gregg, Marion Arlene se	*Madison*
Habhegger, Marian Katherine se	*Milwaukee*
Haswell, Marion Noble se	*Windsor*
Helgeson, Rebecca Maria	*De Pere*
Hicks, Genevieve se	*Madison*
Hyndman, Ruth Ora se	*Capron, Ill.*
Jacobs, Ruth Kathryn se	*Stevens Point*
Jones, Ruth Eleanor se	*Racine*
Kellum, Anna Laura se	*Camby, Ind.*
Knott, Elizabeth May se	*Antigo*
Kriz, Mary Evans se	*Milwaukee*
Kusta, Anna se	*Two Rivers*
Lamoreux, Doris Marguerite se	*Milwaukee*
Lewis, Harriet se	*Fargo, N. D.*
Lightbourn, Alice Fae	*Ada, Minn.*
Lyons, Maude May se	*Brodhead*
McClurg, Ruth Margaret	*Lima, Ohio*
McKinney, Zilpha Bernice se	*Madison*
Mahar, Gladys, Kathryn se	*Hartford*
Matteson, Angela Barbara	*Madison*
Maynard, Elizabeth Remma se	*Plymouth*
Meiselwitz, Elvera Adelgunde se	*Kiel*
Mellor, Eddis Anita se	*Madison*
Mills, Beatrice Porter	*Hazel Green*
Mink, Ruth Eleanor se	*Lancaster*
Morey, Elizabeth May	*North Freedom*
Moser, Ada Magdalene se	*Hiawatha, Kan.*
Mulhall, Mary Louise se	*Sioux City, Iowa*
O'Connor, Annette Mary	*Hartford*
Oestreich, Ottilie Edgren se	*Janesville*
O'Malley, Frances Mary	*Madison*
Perkins, Margaret Keith	*Brockton, Mass.*
Phillips, Angeline se	*Warren, Pa.*
Pidd, Hazel Sadye se	*Milwaukee*

Poundstone, Marie Eve se	*Mellen*
Raisbeck, Agatha Ruth se	*Madison*
Rathbun, Wilma Clara se	*Madison*
Rieck, Mildred Aileen se	*Chicago, Ill.*
Riising, Blanche Marie se	*Madison*
Runkel, Dorothy Edith	*Burlington,*
Sanborn, Deborah Bertine	*Kankakee, Ill.*
Sauerhering, Mabel Joan se	*Hartford*
Saunders, Kathleen Alma se	*Madison*
Shoninger, Dorothy Viola	*Chicago, Ill.*
Shugart, Grace Margaret	*Princeton, Ill.*
Stack, Meredith Marie	*Superior*
Stangel, Viola Ann se	*Manitowoc*
Stevens, Gertrude Elizabeth se	*Chicago, Ill.*
Stevenson, Ina Margaret	*Winnebago, Minn.*
Sundby, Marie Ione	*Stoughton*
Sutton, Phoebe Jane	*Seattle, Wash.*
Temples, Pauline Querry	*Tulsa, Okla.*
Thompson, Gladys Elmyra se	*Rio*
Tilton, Edith Ruth se	*Fairmont, Ill.*
Topp, Margo Elisabeth se	*Columbus*
Touzalin, Helen Virtue	*Chicago, Ill.*
Tyler, Lillian Ruth se	*Hurley*
Waddle, Alchee Caroline se	*South Wayne*
Warnes, Muriel Mae se	*Chicago, Ill.*
Winkelman, Helen Dorothy se	*Omaha, Neb.*
Wright, Adaline Victoria se	*Chicago, Ill.*
Wyard, Charlotte Ann se	*Fargo, N. D.*

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Juniors

Ackley, Florence Davenport se	*Beloit*
Arnold, Gladys Beryl	*Fennimore*
Beatty, Alice Cotton	*Birmingham, Ala.*
Black, Minnie Holtz	*Valparaiso, Ind.*
Callsen, Helen Christine	*Chicago, Ill.*
Carroll, Mary Margaret	*Oconto*
Claus, Loraine Adelaide se	*Madison*
Clinton, Evva Elizabeth	*Menasha*
Connell, Myra Evangeline	*Chilton*
Coon, Dorothy Margaret	*Stevens Point*
Cooper, Hattie Catherine se	*Fond du Lac*
Cretney, Helen Elizabeth se	*Madison*
Davy, Adeline Helen se	*Madison*
Dickinson, Lorraine Ellyn	*Edgerton*
Dieruf, Louetta Mae	*Madison*
Ellood, Vera Brown	*Madison*
Emerson, Helen Elizabeth	*Whiting, Ind.*
Emery, Helen Maria	*Bradford, Pa.*

Erskine, Leone Pulcheria Schmidt se	*Forestville*
Evans, Elsie Crooker	*Superior*
Fast, Lucy Wood	*Denver, Colo.*
Fischer, Salome Frances	*Port Pierre, S. D.*
Fish, Martha Elizabeth	*Denver, Colo.*
Foster, Irmgarde	*Ripon*
Grams, Elizabeth Marie	*La Crosse*
Griffing, Elizabeth Adeline	*Clark, S. D.*
Groesbeck, Jessie Marian	*Ripon*
Habenicht, Matilda Charlotte	*Wauwatosa*
Haines, Nelle Christiana	*Sawyer*
Hile, Margaret Lydia se	*Superior*
Hollingsworth, Martha Frances	*Sheboygan*
Householder, Helen Frances	*La Farge*
Hummel, Emma Wilma	*Arlington*
Jamison, Lida Anna se	*Appleton*
Jennish, Margaret Edythe	*Iowa Falls, Iowa*
Johnson, Genevieve Gladys	*South Wayne*
Kelly, Esther Gannon	*St. Louis, Mo.*
Kussman, Emma Ida	*Fairwater*
Lewis, Mary	*Dodgeville*
McCoy, Elizabeth Florence	*Madison*
McDonald, Vivian Bernice	*Black River Falls*
McDonough, Teresa Winifred	*Edgerton*
McHardy, Margaret Ann se	*Hibbing, Minn.*
Moore, Eugenia Booth	*Glencoe, Ill.*
Nelson, Ruth Mae	*Waupaca*
Oliver, Doris	*Highland Park, Ill.*
Olsen, Irene Bergetta se	*Whitewater*
Palica, Jean Louise	*Kenosha*
Raymond, Laura Estelle	*Detroit, Mich.*
Rowe, Blanche Marie	*Madison*
Scanlon, Irene Charlotte se	*Madison*
Scofield, Esther	*Edgerton*
Shield, Jalien	*St. Louis, Mo.*
Simmons, Hortense	*Darlington*
Smith, Dorothy P.	*Pocatello, Idaho*
Smith, Ethol Esther	*Madison*
Smith, Florence Mary	*Madison*
Spohn, Frances Adeline se	*Madison*
Steinbring, Helen Jones	*Elroy*
Sullivan, Catherine Ann	*Madison*
Taylor, Velma Agnes se	*Cascade*
Thomas, Clara Lucile	*Madison*
Thomas, Mona Louise	*Dodgeville*
Tipple, Frances Katherine	*Oregon*
Tompkins, Elisabeth	*St. Louis, Mo.*
Trumbull, Marjorie Elizabeth	*Racine*
Ullrich, Edna Minna se	*Watertown*

Ullrich, Margaret Elizabeth	*Platteville*
Williams, Margaret Elizabeth	*Berlin*
Wilson, Elizabeth Irene	*Ft. Atkinson*
Wolf, Gladys Jennette se	*Madison*
Young, Hazel Elizabeth se	*Galesville*

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Sophomores

Amerman, Frances Margaret	*West Plains, Mo.*
Beatty, Barbara Elsie	*Davenport, Ia.*
Beeler, Sara Louise	*Hamilton, Ohio*
Berning, Mildred Sophia	*Reedsburg*
Bond, Mabel	*Muscatine, Ia.*
Brill, Mary Catherine	*Congress Park, Ill.*
Bryhan, Elisabeth Taylor	*Lancaster*
Burke, Esther Elizabeth	*Madison*
Cooper, Helen Hamilton	*Dubuque, Ia.*
Crabb, Elva May	*Lake City, Ia.*
Cuff, Edith Jeanette	*Portage*
D'Amour, Antoinette Dorothy	*Rapid River, Mich.*
Davis, Mary Soule	*Paris, Ky.*
Dexter, Margaret Pauline	*Allegan, Mich.*
Douglas, Juanita	*Electra, Tex.*
Dvorak, Eunice Margaret	*Milwaukee*
Eckert, Diana Erna	*Markesan*
Edwards, Dorothea Mary	*Cambria*
Egbert, Jessie Elizabeth	*La Crosse*
Feeney, Ruth Mary	*Madison*
Follstad, Margaret Sophie	*Elcho*
Gobar, Thelma Lydia	*Madison*
Hammann, Florence	*Milwaukee*
Harvey, Evelyn Leonard	*Grand Rapids, Mich.*
Hawkinson, Lily Elvera	*South Bend, Ind.*
Hoffman, Lavona Mary	*Madison*
Humphrey, Carolyn Elizabeth	*Madison*
Humphrey, Mary	*Wild Rose*
Hunzicker, Beulah Adeline	*Lake Mills*
Irmscher, Sophia Dorothy	*Fort Wayne, Ind.*
Jelleff, Helen Elizabeth	*New London*
Kassube, Bertha A.	*Madison*
Koch, Rhoda Elizabeth	*Milwaukee*
Kohl, Cordula Josephine	*Marshfield*
Konop, Kathleen Elizabeth	*Madison*
Lacy, Estella Claire	*Madison*
Leenhouts, Ruth Gertrude	*Grand Rapids, Mich.*
Levis, Emmeline Sophia	*Madison*
McCue, Grace Ellen	*St. Louis, Mo.*
Messerschmidt, Irene Myrtle	*Madison*

Naset, Beulah Silverwood	*Madison*
Newcomb, Eleanor	*River Falls*
Noll, Lucile Colette	*Marshfield*
Norem, Lillian Florence	*Milwaukee*
Oestreich, Evelyn Paulina	*Janesville*
Oetting, Myrtle Georgiana	*Chicago, Ill.*
Olson, Agnes Elenora	*Madison*
Parker, Genevra	*Clinton*
Pazour, Ellestena Victoria	*Kimball, S. D.*
Pedersen, Gertrude	*Winter Haven, Fla.*
Peterson, Clara Bertina	*Hollandale*
Pettersen, Helen Emily	*Madison*
Piehl, Esther Hilder	*Williams Bay*
Pitzele, Tillie Sylvia	*East Chicago, Ind.*
Porter, Frances Jeannette	*Waukesha*
Pratt, Inez Lillian	*Cambridge, Ill.*
Rawleigh, Estella Mae	*Freeport, Ill.*
Rogers, Mary Adora	*Soperton*
Ruff, Gertrude Carolyn	*Hammond, Ind.*
Ryan, Lucile Margaret	*Sheboygan*
Schaefer, Verona Lydia	*Brillion*
Segner, Esther Frances	*St. Croix Falls*
Sense, Eleanora Hattie	*Bayfield*
Shimizu, Tsuta	*Unomachi, Iyo, Japan*
Smith, Bernice Marie	*Madison*
Southcott, Eleanor Margaret	*Dousman*
Starr, Sarah Luella	*Bethany, Ill.*
Steinbach, Josephine Mary	*New Rockford, N. D.*
Stempel, Helen Louise	*Fort Madison, Ia.*
Stone, Berenice Irene	*Madison*
Sylvester, Beatrice Garnet	*Madison*
Tesch, Gertrude Frances	*Chilton*
Thiesen, Aileen Margurite se	*Racine*
Thomas, Carolyn Louise	*Louisville, Ky.*
Thompson, Eunice Holland	*Lewiston, La.*
Thuerer, Margaret Lillian	*Baraboo*
West, Mabel Lillian	*Madison*
Williams, Margaret E.	*Madison*
Wolf, Lucile Catherine	*Richland Center*
Wolf, Marcia Mary	*Madison*

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Freshmen

Alverson, Eleanor Frances	*Madison*
Amlie, Rosalie	*Madison*
Baldwin, Marion Louise	*Beloit*
Bennett, Ena Marie	*Madison*
Bepler, Edith Dierck	*San Francisco, Cal.*
Borun, Ruth Anne	*Milwaukee*

Bruhn, Marren Juliana	*Spring Green*
Burkman, Helen Marie	*Roscoe, Ill.*
Carlisle, Iris Dorothy	*Robinson, Ill.*
Caughey, Esther Marie	*Madison*
Chasey, Beatrice	*Marion, Ind.*
Clapp, Louise	*Morris, Ill.*
Clash, Margaret Ellen	*Toledo, Ohio*
Courtney, Leone Harris	*Marquette, Mich.*
Covey, Juliet	*Belvidere, Ill.*
Crary, Virginia	*Streator, Ill.*
Davenport, Mabel Anne	*Madison*
Dibble, Elizabeth Henriette	*Tompkinsville, Staten Island, N. Y.*
Dixon, Marion Hortense	*Madison*
Ehrenfest, Ellen Schwab	*St. Louis, Mo.*
Farman, Bessie	*Edgerton*
Fertow, Cora Rafter	*Madison*
Filyes, Ruth Margaret	*Madison*
Fletcher, Winifred T.	*Grand Rapids, Mich.*
Goldman, Beatrice	*Milwaukee*
Grant, Dorothy Elizabeth	*Chicago, Ill.*
Hansen, Ellen Marie	*Neenah*
Hanson, Virginia Louise	*Washington, D. C.*
Hausam, Hortense	*St. Louis, Mo.*
Herold, Lucile Virginia	*Relay, Md.*
Herreid, Helen-Marie	*Madison*
Hill, Freddie Mae	*Madison*
Hoff, Margaret Ellenore	*Madison*
Kauffman, Alice Avenella	*Princeton, Mo.*
Kelhofer, Bertha Ernestine	*Madison*
Keller, Marvel	*Prairie du Sac*
Kelly, Eunice Emily	*Mineral Point*
Kinkaid, Arlone Bradford	*Sioux City, Ia.*
Krohn, Gertrude T.	*Black River Falls*
Kruschke, Frieda Elvina	*Waldo*
Kurtz, E. Gertrude	*Milwaukee*
Lampert, Irene Mildred	*Boscobel*
Larson, Olive Ann	*Madison*
Latta, Ruby Irene	*Clinton*
Lidbeck, Kleo	*Marinette*
Lipman, Sadie Elizabeth	*Antigo*
Lovell, Dorothy Belle	*Muscoda*
McClure, Constance Nathalie	*Western Springs, Ill.*
Mason, Inez Loretta	*Beaver Dam*
Mears, Gladys Lucille	*Pepin*
Meiselwitz, Bernice Ida	*Kiel*
Mills, Mary	*Black River Falls*
Minahon, Eileen Lenore	*Madison*
Pearce, Marie Elizabeth	*Richmond, Va.*

Peck, Joan Alice	*Herman, Minn.*
Phillips, Coralyn Pricilla	*Freeport, Ill.*
Rom, Bernice Laura	*Milwaukee*
Rooney, Helen Ruth	*Madison*
Rowland, Marie Jane	*Hutchinson, Kan.*
Schaettle, Ruth Evangeline	*Mondovi*
Schernecker, Agnes Florence	*Madison*
Schmidt, Frieda Olga	*Chicago, Ill.*
Schroeder, Ethel Pearle	*Reedsburg*
Schultz, Marjorie Isabelle	*Chicago, Ill.*
Schulz, Esther LaVern	*Madison*
Sherburne, Clara Rose	*Fremont*
Siljan, Frieda Theresa	*Madison*
Simons, Catherine Hedrick	*Chicago, Ill.*
Smith, Helen Mary	*Madison*
Smithyman, Ruth	*Wauwatosa*
Stangel, Margery Anne	*Manitowoc*
Studeman, Jeanette Louise	*Madison*
Umphress, Helen Anna	*Huntington, Ind.*
Wallber, Elsa Carrie	*Milwaukee*
Warren, Eleanor Sparrow	*Westfield, Mass.*
Ziebarth, Margaret Anne	*Madison*

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Middle Course

Second Year

Beatty, Lester Gaylord	*La Moille, Ill.*
Eckhardt, Levi Hall	*Viroqua*
Hamlyn, Elwyn Winsor	*West Bend*
Kirley, Patrick Eugene	*Townsend, Mont.*
Lewis, John W. se	*Dodgeville*
Merriam, Dale Chester	*Darlington*
Rott, Carl Albert	*Wonewoc*
Smith, Jack Eggleston	*Wausau*
Sousek, Anthony Stephen	*Leopolis*
Vandervest, Walter Louis	*Casco*
Wilke, Gilbert Clarence	*Sheboygan*
Williams, David Humphrey	*Wales*
Wilsie, Carroll Paton	*Brandon*

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First Year

Carmichael, Adelbert Dudley	*Barrington, Ill.*
Corres, Carlos Felix	*Milwaukee*
Francois, Julian Charles	*Brooklyn*
Galaz, Roberto Enciso	*Mexico City, Mexico*
Harris, Minor Jay	*Berlin*

Higgins, Lionel Gordon	*Onalaska*
Jacobs, John Ralph	*Mukwonago*
Jones, Everett M.	*Dodgeville*
Khajavi, Fathollah N.	*Tehran, Persia*
Lobb, Howard J.	*Madison*
Martinez, Carlos Severiano	*Mexico City, Mexico*
Pinkerton, Robert Chester	*Waupun*
Piper, Ralph R.	*Sharon*
Reeves, Frank Weir	*Memphis, Tenn.*
Selmer, William Sylvanus	*Iola*
Smith, George Washington, Jr.	*Burnett*
Taylor, Harold George	*Two Rivers*
Thorson, Martin Benjamin	*Iola*
Tibbet, George Francis	*Chippewa Falls*
Trenary, Orville John	*Belmont*
Williamson, Louis Edward	*Neillsville*

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Adult Specials

Arnold, Alice Hopkins	*Naples, Maine*	A Freshman
Bolin, Donald William	*Bay City*	A Sophomore
Nelson, Nander Manley	*Ladysmith*	A Freshman
Rasmussen, Edwin John	*Honey Creek*	A. M. Freshman
Rich, John Alfred	*Baraboo*	A Freshman
Sery, George Raymond se	*Milwaukee*	A Junior
Stevens, Lelia Etoile	*Montpelier, Miss.*	HE Sophomore

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Wisconsin Library School

Allman, Florence E.	*Rensselaer, Ind.*
Ashmore, Ruba M.	*Fennimore*
Bailey, Margaret	*Adairville, Ky.*
Benedict, Margaret L.	*Fond du Lac*
Blakely, Margaret	*Grinnell, Iowa*
Brown, Helen	*Port Huron, Mich.*
Brown, Thera M.	*Riverside, Ill.*
Clark, Marian R.	*Moline, Ill.*
Crothers, Marie A.	*Neillsville*
Demmler, Geraldine A.	*Eau Claire*
DuBrucq, Florence G.	*Menomonie, Mich.*
Fenton, Dorothy M.	*Neenah*
Grondahl, Mabel	*Red Wing, Minn.*
Hager, Beatrice M.	*Whitehall*
Hempstead, Helen E.	*Saginaw, Mich.*
Hooley, Theresa C.	*Cedar Rapids, Ia.*
Hughes, Nellie D.	*Springfield, Ill.*
Kistler, Ellen D.	*Royal Center, Ind.*
Knapp, Ruth I.	*Ottawa, Ill.*

Knight, Mrs. Bernice H.	*Waupaca*
Kohler, Mrs. Violet E.	*Coffeyville, Kan.*
Kosmoski, Gertrude D.	*Owatonna, Minn.*
Lawton, Elizabeth S.	*Oak Park, Ill.*
Liebermann, Anne	*Fort Atkinson*
McKenzie, Ina	*Duluth, Minn.*
McLaughlin, Madge	*Mason City, Ia.*
Nutting, Mrs. Lenore M.	*Madison*
Perry, Gwenn	*Oconto*
Ream, Margaret M.	*Green Bay*
Rockwell, Helen A.	*Canton, Pa.*
Rugg, Marian D.	*St. Louis, Mo.*
Simpson, Elizabeth W.	*Porter Springs, Ga.*
Wurzburg, Dorothy A.	*Grand Rapids, Mich.*
Young, Olive J.	*North Fond du Lac*

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Joint Course

Bumps, Marjorie E.	*Detroit, Mich.*
Hicok, Alice R.	*Hancock, Mich.*
Liu, Kwo-Chuin, M.A. g.	*Nanking, China*
Wesley, Vannita L.	*Owatonna, Minn.*

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Students Receiving Training Under the Direction of the Federal Board for Vocational Education

Appleby, Delma G.	*Boyceville*	L.S.
Argyle, Alfred E.	*Baraboo*	L.S.
Aubey, Arnold B.	*Deerfield*	L.S.
Barber, Forrest M.	*Baraboo*	L.S.
Bloom, Elmer P.	*Frederick*	L.S.
Brown, William J.	*Moline, Ill.*	M.E.
Engelbreth Clarence	*Racine*	C.J.
Felch, Estel D.	*Menomonie*	E.E.
Gessert, George W.	*Plymouth*	E.E.
Grady, Francis D.	*Oregon*	L.S.
Guldan, Malcolm B.	*Chippewa Falls*	L.S.
Gutowski, Leon A.	*Milwaukee*	Agr.
Haakenson, Edward C.	*Stoughton*	M.E.
Hawley, Albert G.	*Madison*	L.S.
Hayes, William M.	*Baraboo*	L.S.
Hermansen, Harold P.	*St. Croix Falls*	L.S.
Irons, William M.	*Poynette*	Agr.
Jaarsma, John	*Fulton, Ill.*	E.E.
Jones, John F.	*Marshall, Minn.*	Agr.
Julius, George	*Fond du Lac*	M.E.
Klockau, William F.	*Rock Island, Ill.*	M.E.

Kwasigroch, Paul J.	*Milwaukee*	E.E.
Lane, Sidney	*Iron Mountain, Mich.*	Agr.
Lange, Otto F.	*Wonewoc*	Agr.
Learman, Bernard F.	*New London*	M.E.
Lord, George A.	*Chicago, Ill.*	Agr.
Louret, Maurice	*Waldo*	M.E.
Mueller, Frederick Eugene	*Mendota, Ill.*	C. J.
Peterson, Elvin N.	*Minneapolis, Minn.*	Law
Sucher, Robert N.	*Peoria, Ill.*	L.S.
Swan, Ivan L.	*Viola*	L.S.
Sweet, Daniel M.	*Limeridge*	M.E.
Welch, Dale W.	*Cornucopia*	Agr.
Wenzel, Clarence H.	*Milwaukee*	Dairy C.
White, Allen W.	*Racine*	C.C.
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Students Enrolled in Regular Courses

Anderson, Ben O.	*Ashland*	C.C.
Anderson, Calmar T.	*Chippewa Falls*	C.C.
Anderson, Oscar M.	*Viola*	Agr.
Ballam, George A.	*Marshfield*	Ch.C.
Beck, Seigfred E.	*Waubeno*	Pharm.
Beggs, Lyal T.	*Rice Lake*	Law
Bennetts, Wendell	*Bessemer, Mich.*	E.E.
Bolin, Donald	*Bay City*	Agr.Ad.Sp.
Bollens, Fred H.	*Farmington,Mich.*	E.E.
Brehmer, Robert G.	*Fond du Lac*	L.S.
Brown, Lloyd J.	*Madison*	Law
Butler, Richard	*Horicon*	Agr.
Cahill, Walter D.	*Port Edwards*	C.E.
Caldwell, Earl L.	*Indianapolis, Ind.*	M.E.
Canuteson, Ralph I.	*Madison*	L.S., Med.
Carey, Leon	*Marion*	L.S.
Christenson, William C.	*Madison*	Ch.C.
Christoph, Earle	*Hamilton Lake, Fla.*	L.S.
Clark, Farnham	*Menomonie*	Law
Coates, Kenneth B.	*Neenah*	C.C.Ad.Sp.
Corliss, Allen G.	*La Grange, Ill.*	Ch.E.
Courtney, Charles J.	*Madison*	L.S.
Coutant, Paul L.	*Danville, Ill.*	L.S.
Crew, Louis C.	*Arcola, Miss.*	C.E.
Demetropulos, Nicholas D.	*Madison*	L.S.,Med.
Desmond, John T.	*Boscobel*	C.E.
Desmond, John William	*Milwaukee*	L.S.,Law
DeVault, Grover G.	*Madison*	A.Grad.
Devendorf, Joseph	*Madison*	C.E.
Drolenga, Nicholas	*Chicago, Ill.*	C.E.
Dunham, Rex J.	*Madison*	Ind.Ed.

Field, Walter S.	*Madison*	M.E.
Fogelman, Thomas B.	*Westfield, Ind.*	L.S.
Ford, Thomas H.	*Livermore, Ky.*	Agr.
Frenchick, Edward W.	*Weyerhauser*	Law
Fritschler, John C.	*Sturgeon Bay*	Law
Fuller, Henry C.	*Whitewater*	C.C.,Law
Gartner, Irl C.	*Linneus, Mo.*	E.E.
Gilson, Elmer F.	*Shawano*	Gen.C.
Goedecke, Ray	*Merrimac*	L.S.
Gorman, David H.	*Madison*	Agr.
Goshaw, Irl R.	*Gary, Ind.*	E.E.
Greco, Charles	*Madison*	Law
Gregg, Ashton C.	*Decorah, Ia.*	Law
Hartman, William	*Madison*	A.Grad.
Hendrickson, Joel S.	*Madison*	C.C.
Hering, Oswald H.	*Madison*	Min.E.
Hume, Lloyd E.	*Madison*	E.E.
Hunt, Lawrence E.	*Sulphur Springs, Ind.*	Ind.Ed.
Ingebritson, Henry P.	*Madison*	L.S.
Iverson, Clarence F.	*Kenosha*	Agr.
Jackson, Ben F.	*Milwaukee*	Gen.C.
Johns, Cedric P.	*Dodgeville*	L.S.
Johnson, Edwin E.	*Dollar Bay,Mich.*	E.E.
Johnson, Gustavus E.	*Boyceville*	Agr.
Johnston, David M.	*Madison*	L.S.
Kaderabek, Erwin J.	*Manitowoc*	L.S.,Med.
Kaiser, John G.	*Madison*	Agr.
Kent, Hugh, Jr.	*Missoula, Mont.*	C.E.
Kleinhammer, Herman	*Platteville*	M.E.
Knight, Gerald L.	*Joplin, Mo.*	L.S.Grad.
Lawrence, Hans W.	*Madison*	L.S.,Med.
Ledin, Carl B.	*Rockford, Ill.*	C.E.
Leukel, Walter A.	*Brillion*	A.Grad.
Lightner, Seward	*Racine*	C.C.
Looker, Arthur B.	*Viola*	Agr.
Lounsbury, Harry E.	*Madison*	Pharm.
McCarthy, Eugene J.	*Flandreau, S. D.*	C.C.
Mackmiller, George G.	*Ashland*	C.C.
Mariotte, Walter W.	*Madison*	M.E.
Merrill, Robert A.	*Sparta*	E.E.
Michael, John H.	*Neenah*	E.E.
Miller, Frank R.	*Madison*	Gen.C.
Miller, Thomas F.	*Green Bay*	E.E.
Moe, Clarence F.	*Monroe*	C.E.
Nelson, Martin J.	*Madison*	L.S.Grad.
Norgord, Andy	*Cambridge*	Ch.C.C.
Nye, Roy F.	*Durand, Ill.*	Agr.
Oertel, Everett	*Prairie du Sac*	Agr.
Olson, Edward E.	*Milwaukee*	M.E.

Pack, Leon L.	*Madison*	C.J.
Peterson, Carl E.	*Menomonie*	Law
Peterson, Ephraim L.	*Stockholm*	C.J.
Price, Ferdinand	*Amherst*	Agr.
Reitan, R. Norman	*Bonduel*	Law
Rust, Clarence A.	*Madison*	Ch.C.
Schoechert, Adolph E.	*Whitewater*	L.S.
Semb, Joseph	*Galesville*	Agr.
Shaw, Ralph	*Madison*	E.Grad.
Shearer, Arlie E.	*Marengo, Ill.*	Pharm.
Sherbert, Otto Hugh	*Weyauwega*	Agr.
Shufelt, Harlan	*Madison*	Ind.Ed.
Sibbi, Carl	*Superior*	M.E.
Skroch, Roman S.	*Whitehall*	C.C.
Smith, Herbert	*Iron River*	L.S.
Snoddy, William O.	*Glasgow, Ky.*	L.S.
Spies, Jacob A.	*Gillette*	C.C.
Steadman, Ralph A.	*Kearney, Neb.*	Agr.
Sylvester, Selmar A.	*Galesville*	C.C.
Thatcher, Paul A.	*Danbury*	Agr.
Thomas, Cleo W.	*Madison*	E.E.
Thorpe, Reed	*Salt Lake City, Utah*	Gen.C.
Thorsen, Adolph G.	*Milwaukee*	C.C.
Tims, Eugene C.	*Louisville, Miss.*	A.Grad.
Tollefson, John M.	*Madison*	Agr.
Van de Water, Henry	*Midway*	L.S.
Van Lone, Eldyn	*Jefferson*	A.Grad.
Van Steenberg, Victor	*Madison*	Ch.C.
Walker, Alfred E.	*Madison*	L.S.
Washbush, Arnold A.	*Fond du Lac*	C.C.
Wells, Charles	*Platteville*	C.C.
West, Kenneth	*Madison*	E.E.
Wittenberg, Wilber W.	*Milwaukee*	L.S.
Wolworth, Lloyd	*Madison*	M.E.
Youngberg, Harold J.	*West Salem*	C.E.
Zapata, José	*Madison*	Min.E.

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SUMMER SESSION 1923

GRADUATES

Matriculated in the Graduate School

Abegg, Fred Anton g — *Portland, Ore.*
M.S., Syracuse University

Adams, Jesse Bliss — *Harvard, Ill.*
B.S., Kansas State Agricultural College

Ahearn, Arthur John — *New London*
B.A., Ripon College

Albee, Vera Madeline — *Waterford*
B.A., University of Wisconsin

Albertz, Hugo William g — *Watertown*
M.S., University of Wisconsin g

Albjerg, Victor g — *Fergus Falls, Minn.*
B.A., University of Minnesota

Alderfer, Harold Freed — *Bluffton, Ohio*
B.A., Bluffton College

Alford, Pauline — *Duluth, Minn.*
B.A., Oberlin College

Allem, Florence N. — *San Antonio, Tex.*
B.A., University of Nebraska

Allen, George Washington — *Alamosa, Col.*
B.A., University of Nebraska

Allison, Ruth — *Sioux Falls, S. D.*
B.A., Uuniversity of South Dakota

Almer, Alvin Theodore — *Aledo, Ill.*
B.A., Augustana College

Amb, Guri — *Portland, N. D.*
B.A., University of North Dakota

Andersen, Emma Nathalia — *Ames, Neb.*
M.A., University of Nebraska

Anderson, Clarence Ambrose — *Dresser Junction*
B.A., Gustavus Adolphus College

Anderson, Elsie Violet — *St. Paul Minn,*
B.A., Macalester College

Anderson, Henry Oliver — *Madison*
B.A., Southern Minnesota Normal College

Anderson, John Arlington — *Racine*
M.S., University of Wisconsin

Anderson, Raymond Conrad — *Dresser Junction*
B.A., Gustavus Adolphus College

Anderson, William Tait — *Madison*
Ph.B., University of Wisconsin

Armand, Margaret Briggs — *Madison, Ind.*
B.A., Hanover College
Armstrong, Eva M. — *Wichita, Kans.*
B.S., Kansas State Teacher's College
Ashman, Benjamin Hamlin — *Madison*
B.A., Valparaiso University
Atwood, John Thomas — *Gays Mills*
B.A., University of Wisconsin
Augustus, Anne Heard — *Macon, Miss.*
MA., University of Mississippi
Austin, Grace Geraldine — *Madison*
B.A., University of Wisconsin
Axtell, Victor Vern — *Madison*
B.A., University of Wisconsin
Babcock, Mary Rath — *Milwaukee*
B.A., University of Wisconsin
Babcock, Robert Witbeck — *Albany, N. Y.*
B.A., Harvard University
Baber, Ray Erwin — *Netawaka, Kan.*
M.A., University of Wisconsin
Baernstein, Harry Daniel — *Racine*
B.S., University of Wisconsin
Bahe, Dorothy Virginia — *Kansas City, Mo.*
B.A., University of Illinois
Bailie, Florence Eva — *Lancaster*
B.A., University of Wisconsin
Baker, Edith — *Irvington, N. J.*
B.A., Indiana University
Baker, Georgia Helena — *Oxford, Ind.*
B.A., Indiana State Normal
Baker, Oscar Roland g — *St. Croix Falls*
B.S., University of Wisconsin
Bakken, Henry Harrison g — *Mt. Horeb*
B.A., University of Wisconsin
Baldwin, Ira Lawrence — *West Lafayette, Ind.*
M.S., Purdue University
Baldwin, Woodson Samuel — *Orlinda, Tenn.*
B.S., University of Tennessee
Bale, Mary Gratiot — *Galena, Ill.*
Ph.B., University of Wisconsin
Ballantine, James Rolland — *Bloomington*
M.S., University of Wisconsin
Banker, Paul Philip — *Brookings, S. D.*
B.S., University of Wisconsin
Banta, Josephine Davis — *Indianapolis, Ind.*
M.A., University of Chicago
Barackman, Rufus Alonzo — *Lincoln, Kan.*
B.A., Macalester College
Barnett, Beryl — *Oklahoma City, Okla.*
M.A., University of Oklahoma

Barnett, Mary Anna — *Pontiac, Mich.*
B.A., Kalamazoo College
Basemann, Max L., Jr. — *Cedar Rapids, Iowa*
B.A., Coe College
Bassett, Katherine Elizabeth — *Oswego, N. Y.*
B.S., Columbia University
Bassett, Madeline Frances — *Coatesville, Pa.*
B.A., Cornell University
Bassuener, Reynold Oliver — *Sheboygan Falls*
B.A., Lawrence College
Battig, Leon — *Milwaukee*
B.A., University of Wisconsin
Baxter, Mary Margaret — *Kansas City, Mo.*
B.S., University of Missouri
Bear, Lloyd Elson — *Monroe*
B.S., Leander Clark University
Beaver, Howard Tichenor g — *Trinidad, Col.*
M.A., University of Wisconsin
Bechtel, Katherine — *Eureka, Ill.*
B.A., Eureka College
Beffel, John Marshall, Jr. — *Milwaukee*
B.A., University of Wisconsin
Beglinger, Harold Fred gm — *Oshkosh*
B.S., University of Wisconsin
Bernal, Jacob M. — *Taos, N. M.*
B.A., University of Dubuque
Bernhausen, Ernest A. — *Riesel, Tex.*
B.A., Baylor University
Berry, Lillian June — *Burlington, Iowa*
B.S., Iowa Wesleyan University
Berry, Lydia Mitchell — *Versailles, Ky.*
B.A., Transylvania College
Best, Anna Lillian g — *Manhattan, Kan.*
B.S., Kansas State College
Bierke, Edward Carl — *Denmark*
B.S., Carroll College
Bingham, Arthur Barnes — *Hudson, Ohio*
B.S., University of Illinois
Bird, Mary Louise — *Davenport, Iowa*
B.A., Goucher College
Black, James Gilbert — *Harrodsburg, Ky.*
M.S., University of Kentucky
Blair, Mary Ellen — *St. Louis, Mo.*
B.A., Vassar College
Blair, Mildred Margaret — *Fort Recovery, Ohio*
B.A., Oberlin College
Bliss, Myrtie Rundlett g — *Green Bay*
B.S., University of Wisconsin
Blotz-Perkins, Elizabeth Margaret g — *Madison*
B.A., Lawrence College

Bohlman, Herbert William g — *Kaukauna*
M.A., University of Wisconsin
Bohstedt, Elise — *Victor, Iowa*
B.A., Drake University
Bolton-Smith, Carlisle — *Memphis, Tenn.*
B.A., Amherst College
Bond, Eugene Ayres g — *Madison*
B.A., University of Wisconsin
Boone, George Nicholas — *McPherson, Kan.*
B.A., McPherson College
Borchers, Gladys Louise — *Madison*
B.A., University of Wisconsin
Borders, Rachel Mallory — *Kansas City, Mo.*
B.A., Mississippi State College for Women
Botts, Elbert Dysort — *Springfield, Mo.*
M.S., University of Wisconsin
Bowen, Mary Charlotte — *Indianapolis, Ind.*
M.A., University of Iowa
Bowstead, John Edleston — *Edmonton, Alberta, Canada*
M.S., University of Wisconsin
Brabant, Josephine Mary — *Madison*
B.A., University of Wisconsin
Bradish, Rachel Hall — *Ottawa Hall*
B.A., University of Wisconsin
Bradley, Clara Vivian — *Lindsey*
B.S., University of Wisconsin
Branks, Lloyd Henry — *Janesville*
B.A., University of Wisconsin
Brewer, Aubrey Keith — *Richland Center*
M.S., University of Wisconsin
Brewer, Sylvia LaForest — *Des Moines, Iowa*
B.A., Simpson College
Brooks, George Frederick — *Hutchinson, Kan.*
Ph.B., Kansas Wesleyan
Brooks, John g — ***E. Boston, Mass.***
M.A., University of Wisconsin
Brown, Elinor Martha — *Sioux Falls, S. D.*
B.A., University of Wisconsin
Brown, Lydia Lawrence — *Chicago, Ill.*
M.A., University of Wisconsin
Brown, Maynard Wilson — *Great Falls, Mont.*
B.S., University of Wisconsin
Brown, Reuben Samuel — *Madison*
B.A., University of Wisconsin
Bruce, William Robert — *Menasha*
B.A., Lawrence College
Buchanan, Lulu Ellen — *Monmouth, Ill.*
B.A., Monmouth College
Buchheimer, Edward Henry — *St. Louis, Mo.*
B.A., Concordia College

Buck, Flora g — *Omaha, Neb.*
M.A., University of Wisconsin

Burdick, Harold Ormond — *Salem, W. Va.*
B.A., Milton College

Burdick, William Dighton — *Milton*
B.A., Milton College

Burhans, Nathaniel Charles — *Burlington, Iowa*
B.S., Iowa State College

Burke, Mead g, m — *Madison*
B.A., University of Wisconsin

Burns, John Francis — *Cuba City*
B.A., Columbia College

Burt, Joseph Bell — *Lincoln, Neb.*
B.S., Purdue University

Butler, James Harman — *Indianapolis, Ind.*
B.A., Indiana University

Cafferty, Neil George — *Madison*
B.S., University of Wisconsin

Caldwell, Mary Lavina — *Poynette*
B.A., University of Wisconsin

Call, Hazel — *Milan, Mo.*
B.S., Kirksville Missouri State Teachers College

Callahan, Ethel Beatrice — *Binghamton, N. Y.*
B.A., Cornell University

Callahan, Gertrude Leona — *Madison*
Ph.B., University of Chicago

Calvert, Truman Bland — *Muncie, Ind.*
B.A., Indiana University

Camp, Una Lenore — *South Bend, Ind.*
B.A., Indiana University

Campbell, Anna Mabel g — *Kansas City, Kan.*
M.A., University of Wisconsin

Campbell, Gus William — *Chicago, Ill.*
B.A., Beloit College

Cape, Thomas Wilson — *Madison*
B.A., University of Wisconsin

Carey, Orville Clifford — *Appleton*
B.A., Lawrence College

Carley, Verna Adeline — *Appleton*
B.A., University of Wisconsin

Carroll, Daniel Bernard g — *Pittsfield, Ill.*
B.A., University of Illinois

Carswell, Harry Eaton g — *Richland Center*
B.S., University of Wisconsin

Cary, Elizabeth Robinson — *Versailles, Ky.*
B.A., University of Kentucky

Case, Blanche Margaret — *Baldwin, Kan.*
B.A., Baker University

Case, Wilhelmina Georgie — *Prairie du Chien*
B.A., University of Wisconsin

Cass, Alta — *Sauk Center, Minn.*
Ph.B., Hamline University
Cellars, Esme — *Chetopa, Kan.*
B.S., Kansas State Normal, Emporia, Kans.
Chandler, George Anthony g — *Madison*
B.S., University of Wisconsin
Chao, Henry Hsueh-hai — *Kiangsu, China*
M.S., University of Wisconsin
Chapel, Ralph Ezra — *Akron, Ohio*
LL.B., Western Reserve University
Chase, Paul Weaver — *Evansville*
B.S., University of Wisconsin
Chassee, Leo Jeannot — ***Madison***
B.A., University of Wisconsin
Cheek, Maude — *Amory, Miss.*
B.S., Mississippi State College for Women
Cheo, Chia-shu — *Nanking, China*
B.A., University of Nanking
Child, William Clark g — *Oberlin, Ohio*
M.S., University of Wisconsin
Chipman, John — *Bloomington, Ill.*
M.S., University of Iowa
Clark, Georgiana Irene — *Waukegan, Ill.*
Ph.B., University of Wisconsin
Clark, John A. — *Manitowoc*
Ph.B., University of Wisconsin
Clausen, Minnie Margaret — *Percival, Iowa*
B.A., Nebraska Wesleyan University
Clauson, Nils Ylvisaker g — *Madison*
B.A., Luther College
Cleaveland, Marion — *Cleveland, Ohio*
M.A., Western Reserve University
Coates, Charles Penney — *St. Louis, Mo.*
Ph.B., University of Wisconsin
Cochran, George Washington — *West Lafayette, Ind.*
M.S., Pennsylvania State College
Coe, Arthur William — *Horicon*
B.S., University of Wisconsin
Collins, Ellene — *Austin, Tex*
B.A., University of Texas
Collins, Jeannette Maria g — *Cumberland*
B.A., Boston University
Colter, Ruth Marion — *St. Paul, Minn.*
B.A., University of Minnesota
Conger, Lester William — *Kohler*
Ph.B., University of Wisconsin
Cook, Florence Marie — *Madison*
B.A., University of Minnesota — *Madison*
Cook, Gladys Emerson — *Haverhill, Mass.*
M.S., University of Wisconsin

Cooke, Nellie *Kansas City, Mo.*
Ph.B., De Pauw University
Coon, Gaylord Palmer g *Madison*
B.S., University of Wisconsin
Cooper, Albert Everett *Austin, Tex.*
B.A., University of Texas
Cooper, Eleanor Julia *Springport, Mich.*
B.A., Albion College
Cooper, Lyle Winston *Lake Forest, Ill.*
B.A., Colorado College
Cooper, Rose Mary *St. Louis, Mo.*
B.A., University of Michigan
Cordell, Elizabeth Miller J. *Madison*
Ph.B., University of Wisconsin
Corbin, Grace Ethel *Latham, Kan.*
B.A., Phillips University
Corley, Grover Leroy g *Madison*
M.A., University of South Carolina
Cornelius, Lottie Roberts *Aguas Calientes, Mexico*
B.A., University of Missouri
Coursen, William Marshall *East Youngstown, Ohio*
B.S., Ohio University
Coxon, Theodora Porter *Rockford, Ill.*
B.A., Ohio Wesleyan College
Crane, Howard Wilson *Monongahela, Pa.*
B.A., Grove City College
Cravens, Clarence Chambers *Gleason, Tenn.*
B.S., University of Wisconsin
Crawford, Lewis William *Syracuse, N. Y.*
M.A., Princeton University
Creutz, Lester *Monroe*
B.A., University of Wisconsin
Cross, Maude Lucile *Emporia, Kan.*
B.S., Kansas State Normal, Emporia, Kansas
Cummings, Gladys *Xenia, Ohio*
B.A., Miami University
Curtis, Elisa *Grinnell, Iowa*
B.A., University of Illinois
Curtis, Lera B. *Edmore, Mich.*
B.S., Michigan State Normal College
Daeumler, Robert *Pine Bluff, Ark.*
B.A., St. Johns Lutheran College, Winfield, Kan.
Dahle, Beulah *Mount Horeb*
B.S., University of Wisconsin
Dancer, Wayne *Toledo, Ohio*
M.A., Ohio State University
Daniels, Thomas Richard *Weyerhaeuser*
B.S., University of Wisconsin
Davidson, Roy *Tulsa, Okla.*
B.A., University of Kansas

Davis, Jean Scobie B.A., Bryn Mawr College	*Princeton, N. J.*
Davis, Robert Hardin g B.A., North Texas Normal College	*Thalia, Tex.*
Day, Alice Marie g B.A., University of Wisconsin	*Madison*
De Bruin, Cornie A. B.A., Central College	*Pella, Iowa*
Decker, Venora Stephens B.A., Aurora College	*Kewanee, Ill.*
Delker, Loretta B.A., University of Wisconsin	*Milwaukee*
De Vault, Grover G. g B.S., Iowa State College	*Madison*
De Vine, Elenora Beatrice B.A., University of Wisconsin	*Larwill, Ind.*
Devine, Mary Helen B.S., Iowa State College	*Sigourney, Iowa*
Dexter, Mary Olive B.A., Northland College	*Elroy*
Dexter, Stephen Torrey B.S., University of Wisconsin	*Ashland*
Diebold, Frances Elizabeth B.A., University of Wisconsin	*Madison*
Dietzman, William Paul B.A., University of Wisconsin	*Richland Center*
Digby, Margaret Louise B.A., Washington University	*Webster Groves, Mo.*
Dilley, Lois M. B.A., Northwestern University	*Harvard, Ill.*
Dimmig, Howard B.S., Pennsylvania State College	*East Greenville, Pa.*
Dodd, Mary Caroline B.A., Marion College	*Marion, Ind.*
Dollar, Ferne Vida B.S., Columbia University	*Oshkosh*
Domogalla, Bernhard Paul g M.S., University of Wisconsin	*Milwaukee*
Dove, William Franklin g M.S., University of Wisconsin	*Ames, Iowa*
Draper, Bernice Evelyn M.A., University of Wisconsin	*Loyal*
Drotning, Anna Elizabeth B.S., University of Wisconsin	*Deerfield*
Duda, Isadore Mabel B.A., Northland College	*Bloomer*
Dumke, Emma Charlotte B.A., State Teacher's College of Colorado	*New Holstein*
Dunwiddie, Walter Rockwood B.S., University of Wisconsin	*Fox Lake*

Dvorak, Mary Mayme — *Agricultural College, N. D.*
M.A., University of Nebraska

Dye, Emmett Charles g — *Madison*
B.S., South Dakota State College

Dye, Erma Pepple g — *Madison*
B.S., South Dakota State College

Dynes, John Elmer — *Fargo, N. D.*
B.S., North Dakota Agricultural College

Dynes, Lola Miriam — *Mt. Carroll, Ill.*
B.S., University of Wisconsin

Earhart, Franc Corrilla — *Hopkinton, Iowa*
B.S., Lenox College

Early, William Irvin — *Sioux Falls, S. D.*
B.A., University of Indiana

Eastman, Harry Rudolph g — *Lansing, Iowa*
B.A., Beloit College

Eaton, Howard Ormsby g — *Madison*
B.A., University of Wisconsin

Egan, Esther Livingston — *Chicago, Ill.*
B.A., Drury College

Ellis, Mabel Evangeline g — *Madison*
B.A., University of Wisconsin

Ellis, Myrtelle Lula — *Milton*
B.A., Milton College

Ellis, Samuel Robert — *Stoughton*
Ph.B., University of Wisconsin

Ells, Margaret Ely — *Rockford, Ill.*
B.A., Rockford College

Elvehjem, Conrad Arnold g — *McFarland*
B.S., University of Wisconsin

Emery, Myra g, m — *Madison*
B.A., University of Wisconsin

Emig, Elmer — *Danville, Ind.*
B.A., Central Normal College, Danville, Ind.

Endres, Gregory Michail g — *Madison*
B.A., Columbia College, Dubuque, Iowa

English, Donald John — *Wyocena*
B.S., University of Wisconsin

Eschweiler, Elaine Katharine — *Madison*
B.A., University of Wisconsin

Esson, Victor Emanuel — *Buffalo, N. D.*
B.A., University of Wisconsin

Evans, Ewart Owen — *Evansville*
B.A., Carroll College

Evans, Maysel Evelyn — *Bangor*
B.A., University of Wisconsin

Evans, Miriam Whitton — *Tulsa, Okla.*
B.A., University of Wisconsin

Fagan, Harry Morgan — *Butler, Pa*
B.A., Washington and Jefferson College

Falk, Karen Frederikka — *Stoughton*
B.A., University of Wisconsin
Falkins, Bernice Werly — *San Jose, Ill.*
B.A., University of Illinois
Fanselow, John Ray — *Perry, Iowa*
M.S., University of Chicago
Feddersen, Esther Carolyn — *Alton, Ill.*
B.A., University of Illinois
Ferris, Bessie Newell — *Forth Worth, Tex.*
B.A., Daniel Baker College, Brownwood, Texas
Fischer, Milton Andrew — *Dodgeville*
B.A., University of Wisconsin
Fisk, Emma Luella g — *Newark, N. Y.*
M.A., University of Wisconsin
Fix, Alois Ashley — *Phillips*
B.S., University of Wisconsin
Flatman, Bessie Taylor — *Bagley*
B.A., University of Wisconsin
Fleming, Chester Southwick — *Kirksville, Mo.*
B.S., Carthage College
Fleming, Jennie Kingsley — *Kirksville, Mo.*
B.S., University of Missouri
Flick, Oka S. — *Indianapolis, Ind.*
B.S., Northwestern University
Forseth, Victor Edward — *Martell*
Ph.M., University of Wisconsin
Foster, Harriette Edith — *Wichita, Kan.*
B.A., Fairmont College
Fox, Philip Gorder, g — *Waterloo*
B.A., University of Wisconsin
Freeman, Stella Mae — *Trinity, Ky.*
B.S., Miami University
Frey, Harold Alfred — ***Madison***
B.A., University of Wisconsin
Frick, Lois Waitstill — *Independence, Mo.*
B.S., University of Missouri
Friedrich, Paul Edmond — ***Madison***
B.A., University of Wisconsin
Fritschel, Herbert Ernst — *Milwaukee*
B.A., Ripon College
Fromm, Arthur George — ***Milton***
Ph.B., University of Wisconsin
Fronk, Joseph Edward — *Spring Green*
B.A., University of Wisconsin
Frost, Arthur H. — *Madison*
B.S., University of Wisconsin
Fry, Mabel Swarr — *Topeka, Kan.*
B.S , Universtiy of Missouri
Funican, Mary — *Greencastle, Ind.*
B.A., Indiana University

Gabbard, Letcher P. *College Station, Tex.*
M.S., University of Wisconsin
Gaffney, Edward James *Madison*
B.S., University of Wisconsin
Ganfield, Dorothy Evelyn *Waukesha*
B.A., Carroll College
Geyer, Lee Edward *Corning, Kan.*
B.A., Baker University
Gibbs, Margaret *Shawano*
B.A., Ripon College
Gilbert, Edna Mary *Okeana, Ohio*
B.S., Miami University
Gilbert, Otto Gustav *Milwaukee*
B.A., University of Wisconsin
Gildow, Elton Maurice *Albany, Ore.*
B.S., Washington State College
Gill, Anda Cleo *Pellston, Mich.*
B.A., Alma College
Gill, Ella Georgia *Memphis, Tenn.*
B.A., Mississippi State College for Women
Gill, Helen Van Riper g *New York, N. Y.*
M.A., University of California
Glasspoole, James Edward *Mondovi*
B.S., University of Wisconsin
Gleason, Clyde Walter *Portage*
Ph.B., University of Wisconsin
Godbey, Ewart Gordon *Middleburg, Ky.*
B S., University of Kentucky
Goddard, Roy William *Virginia, Minn.*
Ph.B., Universty of Chicago
Goebel, Edmund Joseph *St. Francis*
B.A., St. Francis Seminary
Goff, Sidney Britton g *Elkhorn*
B.S., University of Wisconsin
Goodell, Alice Maud g *Eau Claire*
B.A., University of Wisconsin
Goodrich, Lowell Pierce *Ripon*
B.A., Ripon College
Goodyear, C. Esther *Wichita, Kan.*
B.A., University of Wisconsin
Graff, Marshall Conant *Wausau*
M.A., University of Wisconsin
Granovsky, Alexander A. g *Fort Collins, Col.*
M.S., University of Wisconsin
Gray, Giles Wilkeson *Greensburg, Ind.*
B.A., De Pauw University
Green, Jerome Boley g *New York, N. Y.*
M.S., University of Wisconsin

Gregg, Mabel Josephine g — *Madison*
M.A., University of Wisconsin
Greiff, Lotti June — *New York, N. Y.*
B.A., Barnard College
Griem, Walter Bert g — *New Holstein*
B.S., University of Wisconsin
Griepenstroh, Louise — *Terre Haute, Ind.*
B.A., Indiana State Normal
Griffiths, Margaret Sarah — *Ripon*
B.A., Ripon College
Grill, Karl R. N. — *Denver, Col.*
B.A., University of Wisconsin
Grimes, Waldo Ernest — *Manhattan, Kan.*
B.S., Kansas Agricultural College
Gross, Erwin George — *New Haven, Conn.*
Ph.D., University of Wisconsin
Groth, Edna Rose — *Jackson*
B.A., University of Wisconsin
Gryce, Selma S. Steinfort — *Turtle River, Minn.*
B.L., University of Wisconsin
Gudsos, Alta Jeanette — *Cashton*
B.A., University of Wisconsin
Guernsey, Leeta S. — *Madison*
M.A., State University of Iowa
Guillemin, Ernst Adolph — *North Milwaukee*
B.S., University of Wisconsin
Guillemin, Victor Jr. — *North Milwaukee*
B.A., University of Wisconsin
Guyer, Julia — *Kansas City, Mo.*
B.A., University of Missouri
Hacker, Henry Christian — *Cedarburg*
Ph.B., University of Wisconsin
Hall, Esther Marguerite g — *Franklin, Ind.*
B.A., Franklin College
Hampton, Edith Sidney — *Richmond, Ind.*
B.A., Indiana University
Hannan, Loretto Frances — *Madison*
B.A., University of Wisconsin
Hansen, Harold Floyd — *Merrill*
B.A., Ripon College
Hansen, William Carl — *Neillsville*
B.S., University of Wisconsin
Hare, Harold Richard — *Vancouver, Canada*
B.S., University of Toronto
Hartgering, Frances Beatrice — *Rapid City, S. D.*
B.S., South Dakota State College
Hartman, Albert Leopold — *Garfield, Kan.*
B.S., Kansas State Teachers College, Emporia, Kan.

Hartman, Mabel Virginia *Garfield, Kan.*
B.S., Kansas State Teachers College, Emporia, Kan.
Hartung, Walter Henry g *Welcome, Minn.*
B.A., University of Minnesota
Haskin, Lynn Gerald *Bloomer*
B.A., Ripon College
Hastie, Wilma *Indianola, Iowa*
B.A., Simpson College
Hatch, Ruth Irene g *Seneca, Kan.*
B.A., Baker University
Hathaway, Edward Sturtevant g *Madison*
M.A., University of Wisconsin
Hathaway, Emma Gahagan *Madison*
B.A., Tusculum College
Hayes, Augustus Washington *New Orleans, La.*
Ph.D., University of Wisconsin
Haynes, Violet May *Emporia, Kan.*
B.A., University of Kansas
Healy, Hazel Marie *Muscatine, Iowa*
M.A., University of Wisconsin
Heimlich, Louis Frederick *West Lafayette, Ind.*
M.S., Purdue University
Hein, Regina Mary , *Madison*
B.A., University of Wisconsin
Helble, Herbert H. g *Appleton*
B.A., Beloit College
Helderman, Leonard Clinton *Wheatland, Ind.*
B.A., Indiana State Normal School
Hendricks, Lydia Ann *Tomah*
B.A., University of Wisconsin
Henningsen, Carleton g *Madison*
M.S., University of Wisconsin
Hessing, Grace Angela *Sun Prairie*
B.A., University of Wisconsin
Hickerson, Frank Raymond *Wellsville, Mo.*
B.A., Missouri University
Hickey, Philip John *Madison*
M.S., University of Wisconsin
Hicks, Marion Adah *Madison*
B.A., University of Wisconsin
Hield, Charles Raymond *Janesville*
B.A., University of Wisconsin
Hill, Nels Alfred g *Williams, Iowa*
B.S., Iowa State College
Hinterberg, Edward Herman *Highland*
Ph.B., University of Wisconsin
Hodges, Bess Pearl *Westville, Okla.*
B.S., University of Arkansas

Hoekje, Hanna Gamelia — *Holland, Mich.*
B.A., Hope College
Hoffman, Vera Marguerite — *Ripon*
B.A., Ripon College
Hoiby, Cora Margrethe — *Madison*
B.S., University of Wisconsin
Holcombe, Florence Ethel — *Madison*
B.A., University of Wisconsin
Holden, Eugene Davenport g — *Madison*
M.S., University of Wisconsin
Hollowell, Carney Agnew — *Princeton, Ky.*
B.S., University of Kentucky
Holsinger, Ernest J. — *Marion, Ind.*
B.A., Marion College
Hood, Sadie Elizabeth — *Racine*
Ph.B., University of Wisconsin
Hoover, Calvin Bryce — *Madison*
B.A., Monmouth College
Hopkins, Fannie — *Galveston, Ind.*
B.A., Franklin College
Hoppin, Edith — *Milwaukee*
B.A., University of Wisconsin
Houser, Ethel Marian — *Ohio City, Ohio*
M.A., University of Wisconsin
Howard, Bess Edward — *Jackson, Mo.*
B.A., Randolph-Macon Woman's College
Howard, Mary Zarelda — *Jackson, Mo.*
B.A., Randolph-Macon Woman's College
Howell, Leander D. g — *Bexar, Ala.*
M.S., Texas Agricultural and Mechanical College
Howerton, Flora J. — *Meridian, Miss.*
B.A., University of Wisconsin
Howes, Margaret Hannah — *Omaha, Neb.*
B.A., University of Nebraska
Hudson, Mildred — *Guthrie, Mo.*
B S., University of Missouri
Huebner, Arthur Carl — *Madison*
Ph.B., University of Wisconsin
Hughes, Violet Ann — *Madison*
B.A., University of Oklahoma
Hummel, Benton LaRue — *W. Lafayette, Ind.*
B.S., Purdue University
Hutson, John B. — *Lexington, Ky.*
B.S., University of Kentucky
Hydle, Lars Larsson g — *Madison*
B.A., North Dakota University
Inglis, David Nelson — *Milton*
M.A., University of Wisconsin

Ingraham, Dora Virginia *Milwaukee*
B.A., University of Wisconsin
Jackson, Henry Theodore *Monmouth, Ill.*
B.A., Illinois Wesleyan University
Jackson, Jerome Case *Racine*
B.A., Thiel College
Janssen, George g *Madison*
M.S., South Dakota State College
Jacquith, Clifford LaRoy *Green Lake*
B.S., University of Wisconsin
Jenkins, Ruth Elizabeth *Springfield, Ohio*
B.A., Wittenberg College
Jennings, Blandford *Green Bay*
B.A., University of Wisconsin
Jewett, Eugene Augustus *Madison*
Ph.B., University of Wisconsin
Johanson, Ernest Jerome *Oshkosh*
B.A., Carthage College
John, Dwight Tufts *Madison*
B.A., Otterbein College
Johnson, Ardin Llewelyn *Wautoma*
B.A., University of Wisconsin
Johnson, Edward Wallace *Madison*
B.A., University of Wisconsin
Johnson, George Fiske g *Powell, Ohio*
M.S., University of Wisconsin
Johnson, Margaret *Cambridge, Ohio*
B.S., Ohio State University
Johnson, Orville M. g *Madison*
B.S., Ohio State University
Johnson, Silas Gaylord *Madison*
Ph.B., University of Wisconsin
Johnstone, Roy Kenneth *Randolph*
B.A., Lawrence College
Jome, Hiram Leonard *Madison*
M.A., University of Wisconsin
Jones, John Paul *Milwaukee*
B.A., University of Wisconsin
Jones, Lester, Martin g *Madison*
M.A., Columbia University
Jones, Martha Pearl *Saffordville, Kan.*
B.S., Kansas State Teacher's College
Jordan, Brady R. g *Madison*
B.Litt., Princeton University
Jordan, Jesse Neil *Independence, Mo.*
B.A., Knox College
Julien, Arlie Paul g *Yeoman, Ind.*
M.S., University of Wisconsin

Kasten, Marie Antoinette g — *Milwaukee*
M.A., University of Wisconsin
Keating, S. Caroline — *Alexis, Ill.*
B.S., Monmouth College
Keck, Bertha Helena — *Lansing, Mich.*
B.S., Michigan Agricultural College
Keller, Hazel Alice — *Greenwood, Ind.*
B.A., Franklin College
Kellogg, Helen Julia — *St. Paul, Minn.*
B.L., University of Wisconsin
Kelly, Agatha Irene — *Butte, Mont.*
B.A., Mt. St. Joseph College
Kelso, Mary Ellen — *Dravosburgh, Pa.*
B.A., University of Pittsburgh
Kemmer, Frank Leonard — *Detroit, Mich.*
B.A., University of Wisconsin
Kemmer, Vernetta Stevenson — *Detroit, Mich.*
B.A., University of Wisconsin
Kendall, Raymond Miller — *Greencastle, Ind.*
M.A., De Pauw University
Kennedy, Claude C. g — *Waukesha*
B.A., Carroll College g
Kentzler, Ruth Purdy — *Madison*
B.A., University of Wisconsin
Kenyon, Walter Alexander g — *Madison*
M.A., University of Wisconsin
Kephart, Anna Nasbye — *Pleasureville, Ky.*
B.A., Georgetown College
Kepple, Joseph Francis — *Cadott*
B.A., University of Wisconsin
Kerr, James Purvis — *Grand Rapids, Mich.*
B.A., University of Michigan
Kersten, Harold John g — *Wauwatosa*
B.S., University of Wisconsin
Keys, Alma Lee — *Malvern, Ark*
B.S., Oklahoma Agricultural and Mechanical College
Khoorshid, Ardeshir g — *Secunderabad, India*
M.S., University of Wisconsin
Kibbey, Cora Avis — *Fairmount, Ind.*
B.A., Indiana State Normal
Kieffer, Bernice Elizabeth — *Findlay, Ohio*
B.A., Wittenberg College
Kiessling, Oscar Edward — *Jefferson*
B.A., University of Wisconsin
Kinney, Percy LeRoy — *Galesburg, Ill.*
B.S., University of Illinois
Kirk, Anna Euphrasia — *Lyons, Ind.*
B.A., Earlham College

Kissick, William Perry — *Beloit*
B.A., Penn College, Iowa
Kjeseth, Milton Almor — *Derouda*
B.A., St. Olaf College
Klaus, Roland Austria — *Winneconne*
B.A., Lawrence College
Klein, Michael William g — *Madison*
B.S., Lawrence College
Knapple, Margaret — *Lexington, Neb.*
B.A., Cotner College
Knight, Pearle Ethel g — *Beloit*
B.A., Beloit College
Knoelk, William Charles — *Milwaukee*
B.A., University of Wisconsin
Knowles, Harold Fredrick — *Tomah*
B.A., University of Wisconsin
Knudsen, Gertrude Anne — *Madison*
B.A., University of Wisconsin
Koepp, Otto August — *Madison*
B.A., University of Wisconsin
Kohl, Leo Henry — *Marshfield*
B.A., University of Wisconsin
Kohlhoff, Carl Henry — *Milwaukee*
B.A., University of Wisconsin
Kozelka, Frank Ludwig — *Shiocton*
B.S., University of Wisconsin
Krantz, Nettie E. — *Wenona, Ill.*
B.S., Knox College
Krause, Clarence Carl — *Milwaukee*
Ph.B., University of Wisconsin
Kropf, Dorothy Ann — *Madison*
B.A., University of Wisconsin
Krueger, Harriet Ottelia — *Stevens Point*
B.A., University of Wisconsin
Krueger, Wabun Clarence — *Sawyer*
B.S., University of Wisconsin
Krueger, Walter William — *Grand Rapids, Mich.*
Ph.B., University of Wisconsin
Kruse, Wilfred Frederick — *Ft. Wayne, Ind.*
B.A., Concordia College
Kumlien, Wendell Frichiof — *Brookings, S. D.*
M.S., South Dakota State College
Kundert, Elizabeth g, m — *Monroe*
B.S., University of Wisconsin
Kung, Müller Ling-Hsüan — *Shantung, China*
B.S., University of Wisconsin
Lahman, Clifford Keyes — *Mt. Vernon, Iowa*
B.A., Cornell College

Lahman, Helen May — *Franklin Grove, Ill.*
B.A., Northwestern University

Lahmann, Albert Henry — *Milwaukee*
B.A., University of Wisconsin

Laird, David Gordon g — *Vancouver, B. C., Canada*
B.S., University of Toronto

Laird, James Alexander g — *Madison*
B.S., University of Wisconsin

Lampman, Harold Heath g, m — *Clare, Mich.*
B.A., University of Wisconsin

Lamson, C. Louise — *Fairfield, Iowa*
B.A., University of Wisconsin

Land, Samuel Lewis — *Cookeville, Tenn.*
B.S., Peabody College

Landis, Pauline Elizabeth — *Marion, Ind.*
B.A., De Pauw University

Langstadt, Lucille — *Appleton*
B.A., University of Wisconsin

Larson, Karl Gottfrid — *Rock Island, Ill.*
B.A., Augustana College

Lasher, Normal J. — *Gas City, Ind.*
B.A., Marion College

Lasley, Robert Law — *Wentworth, N. C.*
M.A., University of North Carolina

Lathrop, Andrew William g — *Endicott, N. Y.*
M.S., University of Wisconsin

Lattimer, John Ernest g — *Madison*
B.S., University of Toronto

Laub, Carl Herbert g — *Terre Haute, Ind.*
M.A., University of Wisconsin

Law, Blanche — *Springfield, Mo.*
B.A., Southwest Missouri State Teachers College

Lazier, Wilbur Arthur g — *Madison*
B.S., University of Illinois g

Lean, Olive Clarissa — *Dousman*
Ph.B., University of Wisconsin

Lechtenberg, William John — *Milwaukee*
M.A., Marquette University

Leffler, Shepherd — *Kansas City, Mo.*
B.A., University of Missouri

Le Fort, Emilio g — *Rosario, Santa Fe, Argentina, S. A.*
Agronomic Engineer, National University of Buenos Ayres

Leonard, Louise Upton — *Kansas City, Mo.*
B.A., University of Kansas

Lepkovsky, Samuel g — *Kenosha*
M.S., University of Wisconsin

Leukel, Walter Herman A. g — *Brillion*
B.S., University of Wisconsin

Levitin, Nadia — *Madison*
B.A., University of Wisconsin

Lewis, Alice Margaret — *Lake Preston, S. D.*
B.A., Yankton College

Lewis, Ella Marie — *Lake Preston, S. D.*
B.A., Yankton College

Lewis, John Roberts g — *Spanish Fort, Utah*
M.S., University of Utah

Lewis, Russell Francis — *Reedsburg*
B.A., University of Wisconsin

Ley, Hilda Margaret — *De Pere*
B.A., University of Wisconsin

Leyburn, James Graham — *Rome, Ga.*
M.A., Princeton University

Lichtenwalner, Daniel Charles — *College Park, Md.*
M.S., University of Maryland

Liebig, Pauline Glottsleben — *Tarkio, Mo.*
M.A., University of Wisconsin

Liggett, Lillian Lucile — *Winnebago, Ill.*
B.A., Rockford College

Lightbody, Howard David — *East Lansing, Mich.*
M.S., University of Chicago

Limber, Ralph Clark g — *Meadville, Pa.*
B.A., Allegheny College

Limp, Charles Earl — *Holton, Ind.*
M.S., University of Wisconsin

Lindegren, Alina Marie g — *Superior*
M.A., University of Wisconsin

Lindesmith, Orlando R. — *Minnewauken, N. D.*
B.A., Harvard University

Lindsay, Buena Wood — *Madison*
B.S., Northwestern University

Lisse, Martin William — *State College, Pa.*
M.S., University of Washington

Little, Caroline Barnes — *Kalamazoo, Mich.*
B.S., University of Wisconsin

Little, Eleanor Nightingale — *Dubuque, Iowa*
B.A., Wellesley College

Little Mary Ninas — *Kansas City, Mo.*
B.A., University of Illinois.

Little, Theresa — *Peshtigo*
B.A., University of Wisconsin

Llewellyn, Elberta — *Streator, Ill.*
Ph.B., Central Wesleyan College, Warrenton, Mo.

Lockhart, James Irving — *Waukegon, Ill.*
B.A., Colorado State Teachers College

Lommel, Walter Ernest — *West Lafayette, Ind.*
B.S., Purdue University

Longenecker, Ernest A. g — *Madison*
B.S., University of Wisconsin
Loomer, Gretchen Lana — *Delavan*
B.S., University of Wisconsin
Loomis, Orson Earl — *Beloit*
B.A., Beloit College
Lorenz, Jennie — *Sheboygan*
B.A., University of Wisconsin
Loveless, Helen Esther — *Milford, Ill.*
B S., Northwestern University
Luebchow, Erwin O. — *Wausau*
B.A., University of Wisconsin
Lumpkin, Hope Henry g — *Madison*
M.A., University of Wisconsin
Lund, Bertha Theressa — *Mt. Horeb*
B.A., University of Wisconsin
Lundberg, Mildred Theresa — *Evanston, Ill.*
B.A., Northwestern University
McBroom, Ethel Minnie — *Woodstock, Ill.*
B.A., Northwestern University
McCabe, Mae Anna — *Onaga, Kan.*
B.S., Iowa State College
McCarthy, Margaret Mary — *Mellen*
B.A., University of Wisconsin
McCarty, George Washington — *Fort Branch, Ind.*
M A., Columbia University
McCaull, Mary Edna g — *Garden Grove, Iowa*
B.A., University of Illinois
McClure, Virginia Alice — *Lexington, Mo.*
B.S., University of Missouri
McConnell, Mildred Morse g — *Fond du Lac*
M.A., University of Wisconsin
McCormick, Elizabeth Rosalia — *Superior*
B.S., Teachers' College, Columbia University
McDermott, Leone — *Darlington*
B.A., University of Wisconsin
McDonald, Helen Esther — *Anderson, Ind.*
M.S., University of Wisconsin
MacDougall, Charlotte — *Madison*
B.A., University of Wisconsin
McDowell, Carroll — *Arkansas City, Kan.*
B.A , Kansas University
McFarland, Evelyn Volmer — *Los Angeles, Cal.*
B.A., University of Wisconsin
McFarland, Lola Beryl — *Delaware, Ohio*
B.A., Otterbein College
MacFarlane, Jean Marie — *Oshkosh*
B.A., Lawrence College

MacGillivray, John Henry g *Urbana, Ill.*
M.S., University of Illinois
McGinnis, Helen Anastasia *Chicago, Ill.*
M.A., University of Illinois
McKee, Jewel Chester g *A. and M. College, Miss.*
B.S., Mississippi Agricultural and Mechanical College
McKinney, Lela Fern *Newton, Ind.*
B.A., The Western College for Women, Oxford, Ohio
McLaird, June May *Chatfield, Minn.*
Ph.B., Hamline University
McLean, Arthur Lloyd g *Westfield*
B.A., Carroll College
McLenegan, Annie Susan g *Beloit*
M.A., University of Wisconsin
McLeod, Eva S. *Madison*
B.A., University of Wisconsin
McPherson, Maud Esther *Washington, D. C.*
M.A., University of Wisconsin
Mackey, Walter Curriden *Waukegan, Ill.*
B.S., University of Wisconsin
Magistad, Oscar Conrad g *Forestville*
M.S., University of Wisconsin
Maloney, Evelyn Laura *Fond du Lac*
B.A., University of Wisconsin
Marquart, Philip Butler *Milton Junction*
B.A., University of Wisconsin
Marsh, Mabel Irene *Akron, Ohio*
Ph.B., Mt. Union College
Marshall, Julia *Quenemo, Kan.*
B.A., College of Emporia
Martelle, Nerville Austin g *Menominee, Mich.*
B.A., Lawrence College
Martin, Charles Christian *Indianapolis, Ind.*
B.A., Wittenberg College
Martin, Grace Lois *Grinnell, Iowa*
B.A., Grinnell College
Martin, Josephine Elliott *Pine Bluff, Ark.*
B.A., University of Arkansas
Martin, Luther Simpson *Muncie, Ind.*
B.S., Muncie Normal
Martin, Margaret Jeannette *Syracuse, N. Y.*
M.A., Syracuse University
Martindale, Sallie Ann *Zarah, Kan.*
B.A., College of Emporia
Martinstein, Marie *Oskaloosa, Iowa*
B.A., University of Wisconsin
Marvin, Arthur Donald *Beaver Dam*
B.A., University of Wisconsin

Mason, Ralph Bryant g — *New Windsor, Ill.*
M.A., University of Wisconsin
Mathys, Della Mabelle — *Arcadia*
B.A., Lawrence College
Matsumoto, Ryozo g — *Tokyo, Japan*
B.A., Keio University, Tokyo
Matsuno, Masashi, A. — *Miyagiken, Japan*
B.S., University of Illinois
Mattson, Oscar Fredrick — *Superior*
Ph.B., University of Wisconsin
Meacham, Edna Lillian g — *Carlisle, Pa.*
M.A., Cornell University
Megchelsen, Florence — *Keokuk, Iowa*
B.A., Monmouth College
Meisekothen, Hildegarde Mary — *Madison*
B.A., University of Wisconsin
Meredith, Mamie J. — *Lincoln, Neb.*
B.A., University of Nebraska
Merriman, Cecil Hiram — *Oxford*
B.A., Carroll College
Meulemans, August Martin g — *Madison*
B.A., University of Wisconsin
Meyer, Harvey Gustav — *Knoxville, Tenn.*
B.A., University of Wisconsin
Michalski, Elizabeth Caroline — *Cleveland, Ohio*
B.A., Western Reserve University
Milbrandt, Ruth Victoria — *Brooklyn*
B.A., University of Wisconsin
Millar, Agnes — *Wooster, Ohio*
B.A., College of Wooster
Miller, Nellie — *Monroe*
B.A., University of Wisconsin
Mills, Neal Dow — *Battle Creek, Mich.*
B.A., Milton College
Milum, Vern G. g — *Viola*
B.S., University of Wisconsin
Mizoe, Satsuki g — *Hokkaido, Japan*
M.S., Tohoku Imperial University g
Moeck, Arthur Henry — *Milwaukee*
Ph.B., University of Wisconsin
Moehlenpah, Marion g — *Milwaukee*
B.A., University of Wisconsin
Mohler, Henry Calvin — *Roann, Ind.*
B.A., Indiana University
Molstad, Gehard P. — *Stoughton*
B.A., Ripon College
Moore, John Brooks — *Ann Arbor, Mich.*
M.A., University of Washington

Morey, Ruth Edson — *Pittsburgh, Pa.*
B.A., Mount Holyoke College
Morford, Dale David — *Huntington, Ind.*
B.A., Indiana University
Morgan, Howard Charles — *Kansas City, Kan.*
B A., University of Kansas
Morgan, Ruth Ann — *Neodesha, Kan.*
B.S., Kansas State Agricultural College
Morris, Olive C. — *Sawtelle, Cal.*
B.A., Syracuse University
Morse, Wayne Lyman g, 1 — *Madison*
Ph.B., University of Wisconsin
Motley, Emery Tyler g — *Madison*
M.S., Alabama Polytechnic Institute
Mowery, Ray Clifford — *Lubbock, Tex.*
B.S., Texas Agricultural and Mechanical College
Mueller, Clara Helen — *Marshfield*
B.A., Carroll College
Murneek, Andrew Edward g — *Madison*
M.S., Iowa State College
Murphey, Paul Raymond — *Akron, Ohio*
B.A., Muskingum College
Murphy, Brynhilde Josephine — *Madison*
B.A., University of Wisconsin
Murray, Helen Hyacintha — *Madison*
B.S., University of Wisconsin
Murray, Helen Marie — *Painesville, Ohio*
B.A., Oberlin College
Napoli, Anton — *Milwaukee*
B A., Northwestern College, Napervile, Ill.
Naude, Petrus Johannes — *Bethal, Transvaal, S. A.*
M.S., North Carolina State College
Neal, Annie g — *Gainesville, Tex.*
M.A., University of Wisconsin
Neiman, Margaret Alice — *Whitewater, Kan.*
B.S., Kansas State Agricultural College
Nelson, Laura Marsh — *Milwaukee*
B.A., University of Wisconsin
Nelson, Louis Ellsworth — *Superior*
B.A., University of Wisconsin
Newell, Lynn Fields — *Oshkosh*
B.A., University of Wisconsin
Newton, Harriet Ann — *Madison*
B.A., Miami University
Nicholson, Caroline Lucile — *Westtown, Pa.*
B.A., Earlham College
Nicolai, Martha g — *Milwaukee*
B.A., University of Wisconsin

Noland, Lowell Evan g — *Madison*
M.A., University of Wisconsin
Norling, Sven Albert — *Söderhamn, Sweden*
M.S., Agriculture College, Upsala, Sweden
Norris, Elva Lovina g — Laurel, Neb.
B.A., Nebraska Wesleyan University
Oakley, Carroll Frank — *Milton*
B.A., Milton College
O'Brien, Ruth — *Glenville, W. Va.*
B.A., Goucher College
O'Connell, William Valentine — *Hutchinson, Kan.*
B.S., Kansas State Teachers College, Emporia, Kan.
Ogden, Warner Mitterling — *Laketon, Ind.*
B A., Manchester College
Oldigs, William g — *Leigh, Neb.*
B.A., Midland College
Olds, Deborah Fay — *Madison*
B.M., University of Wisconsin
Opstedal, Anthon John — *Oshkosh*
B.S., University of Wisconsin
Orth, Albert Alan — *Terre Haute, Ind.*
B.A., State Normal, Terre Haute, Ind.
Osborn, Leland George — *Wood River, Ill.*
M A., University of Illinois
Otte, Gilbert Theodore — *Detroit, Mich.*
B.A., Concordia College
Outland, Ethel Rose — *Anamosa, Iowa*
B.S., Coe College
Outland, Ruth A. — *Anamosa, Iowa*
B.A., Coe College
Overton, Millard Herbert — *West Lafayette, Ind.*
B.S , Purdue University
Overton, Sue Louisa — *Dallas, Tex.*
B.A., Randolph-Macon Woman's College
Owen, William Vern — *W. La Fayette, Ind.*
Ph.B., University of Chicago
Paddock, Frank g — *Madison*
B.A., Indiana State Normal
Page, James Franklin g — *Clarksville, Mo.*
M.A., University of Chicago
Parker, Mary Abigail — *Omaha, Neb.*
B.A., University of Nebraska
Parks, Ermine Josephine — *Marceline, Mo.*
B.A., Park College
Paul, Mary Helen — *Milton Junction*
B.A., Milton College
Paulson, Walter Ernest — *Hollandale*
Ph.B., University of Wisconsin

Perkins, Birdie Anna — *Newton, Kan.*
B.A., Colorado State Teachers College
Perlman, Jacob g — *Madison*
M.A., University of Wisconsin
Perry, Kathryn Illeen — *East Aurora, N. Y.*
B.A., University of Wisconsin
Perstein, Arnold — *Berkeley, Cal.*
Ph.B., University of Wisconsin
Petersen, Doris Ruth — *Dundee, Ill.*
B.A., Beloit College
Peterson, Clarence Theodore — *Dubuque, Iowa*
B.A., University of Dubuque
Pettus, Shirley Gill — *Louisville, Ky.*
B.A., Wellsley College
Pflueger, Luther Appel — *Crystal Lake, Ill.*
M.A., University of Indiana
Phelan, Earl Walter — *East Orange, N. J.*
B.Chem., Cornell University
Pieper, John — *Urbana, Ill.*
M.S., University of Illinois
Pinkerton, Elizabeth Woolfolk — *Versailles, Ky.*
B.A., Transylvania College
Pitkin, William Asbury — *Greensburg, Ind.*
B.A., De Pauw University
Pletcher, Helen Ana — *Lock Haven, Pa.*
B.A., Pennsylvania State College
Pohle, Helen Londora — *Madison*
B.A., University of Wisconsin
Pontius, Byron Ernest g — *Lafayette, Ind.*
B.S., Ohio State University
Post, Robert Edwin — *St. Joseph, Mich.*
B.S., Michigan Agricultural College
Potts, Howard Wyatt g — *Edmond, Okla.*
B.A., University of Oklahoma
Potts, Jane H. — *Holland, Mich.*
B.A., Hope College
Powell, May Latin — *Dayton, Ohio*
B A., Otterbein College
Powell, Parker Preston — *Auburn, Ala.*
M.S., Alabama Polytechnic Institute
Pray, H. A. Holden g — *Madison*
M.A., Oberlein College
Prescott, Frank Williams g — *Madison*
M.A., University of Wisconsin
Priem, Lillian Arends — *Naperville, Ill.*
B.S., Northwestern College
Priestley, Virginia — *Memphis, Tenn.*
B.A., University of Tennessee

Pryor, Margaret g — *Prairie Lea, Tex.*
M.A., University of Texas
Quimby, Arelisle — *Sheboygan*
B.A., Oberlin College
Racy, Amelia Mary — *St. Louis, Mo.*
Ph B., Chicago University
Rahr, Louis Frederick — *Kenosha*
B.L., University of Wisconsin
Ralya, Lynn Louis — *Beloit*
B.S., Michigan Agricultural College
Ramsey, Elizabeth Pearl — *Akron, Ohio*
B.A., Hiram College
Ramsey, Garnet LaVina — *Cedar Rapids, Iowa*
B.A., Coe College
Randolph, Howell Sheppard g, m
B.A., Milton College
Rankin, Kate Hamilton — *Waterloo, Iowa*
B A., Muskingum College
Ranney, Harriet Alma — *Riceville, Iowa*
B.A., Iowa State Teachers' College
Ransom, Eunice Rae — *Fennimore*
B.A., University of Wisconsin
Ranson, George James — *Highland, Kan.*
B.A., College of Emporia
Rapp, Miriam — *Watonga, Okla.*
B.S., Oklahoma Agricultural and Mechanical College
Rasmussen, Edna Amelia g — *St. Louis, Mo.*
B A., Washington University
Ray, Dorothy Margaret — *Madison*
B.A., University of Wisconsin
Reid, Mary Esson — *Toronto, Canada*
B.A., University of Toronto
Reinking, Lillian Antoinette — *Baraboo*
B.A., University of Wisconsin
Rellahan, John Joseph — *Stevens Point*
B.A., University of Wisconsin
Rentsch, Anna Mary — *New Concord, Ohio*
B.A., University of Pittsburgh
Resh, Warren Herlan — *Winnebago, Ill.*
B.A., University of Wisconsin
Reynolds, May Statler g — *Madison*
B.S., Iowa State College
Richey, Herman Glenn — *Terre Haute, Ind.*
B.A., Indiana State Normal
Ricker, George Granville — *Rockport, Ind.*
B.S., Purdue University
Riddell, Fred Thomas — *E. Lansing, Mich.*
B.S., Michigan Agricultural College

Riebe, Harvey August g — *Onalaska*
Ph.M., University of Wisconsin
Ringler, Alexander Preston — *Medford*
B.A., Pennsylvania College
Rintelman, William Llewlyn g — *Menomonee Falls*
Ph.B., Lawrence College
Robichaux, Francis Joseph — *Baton Rouge, La.*
B.A., Louisiana State University
Rockwell, Ruth Evelyn — *Crown Point, Ind.*
B.A., University of Wisconsin
Rockwood, Stanley Walker — *Waukesha*
M.A., University of Chicago
Rodolfo, Augustin g — *Zambales, P. I.*
B.S., University of Wisconsin
Rody, Dessie Viola — *Kokomo, Ind.*
B.A., Indiana University
Roelofs, Helen Henrietta M. — *Grand Rapids, Mich.*
M.A , University of Michigan
Roeske, Margaret Elsa — *Hancock*
B.A., Ripon College
Rogers, Lennette May g — *South Carver, Mass.*
M.A., University of Wisconsin
Rohrer, Perry Lawrence — *North Manchester, Ind.*
B.A., Manchester College
Romberg, Henry August — *Clintonville*
B.S., University of Wisconsin
Roth, William Edward — *Mauston*
B.A., University of Wisconsin
Rouch, S. Earl — *Morocco, Ind.*
B.A , Indiana University
Rouse, Glenn Francis g — *Madison*
B.A., Cornell College
Rousseau, Lousene G. — *Wisconsin Rapids*
M.A., University of Wisconsin
Rowley, Clarmae Budde — *Renaryae, Col.*
B.A., Stanford University
Royce, Harvey Day g — *Ft. Atkinson*
B.S., University of Wisconsin
Rudie, Neil H. g — *Westby*
Ph.B., University of Wisconsin
Rummel, Olga Flora — *Cincinnati, Ohio*
B.S , Denison University
Rushton, Eugene Roy g — *Montgomery, Ala.*
B.A., University of Virginia
Russell, Cecil Ruffell g — *Christchurch, New Zealand*
B.S., University of Wisconsin
Russell, Mary — *Oklahoma City, Okla.*
B.S., Oklahoma Agricultural and Mechanical College

Rykert, Martha Adelaide — *Chicago, Ill.*
B.A., Northwestern University
Sanborn, Katherine Yates g — *Madison*
B.A., University of Wisconsin
Sanders, Isaiah Sumner — *Alcorn, Miss.*
B.A., Tougaloo College
Sandidge, William Lee, Jr. — *Lynchburg, Va.*
M.S., University of Virginia
Sands, Helene Marie — *Boston, Mass.*
B.A., Smith College
Sannes, Didrik — *Madison*
D.D.S., University of Illinois
Sauer, Elmer Ernst — *Watertown*
B.A., Northwestern College
Scaggs, Pearl Rose — *Livington, Ill.*
B.A., University of Illinois
Schacht, Fred William g, m — *Racine*
B.S, Beloit College
Schacht, Roland John g, m — *Racine*
B.S., Beloit College
Scheer, Raymond Ancil — *Atlanta, Ill.*
M.S., Lincoln College
Schleck, Leo Peter g — *Madison*
Ph.B., University of Wisconsin
Schmidt, Emil Gustave g — *Osceola*
M.S., University of Wisconsin
Schmitz, Henry Lenzen g — *Chicago, Ill.*
M.S., University of Wisconsin
Schnell, Fred g — *Portage*
B.A., University of Wisconsin
Schrieber, Edwin Henry — *St. Louis, Mo.*
B.A , University of Illinois
Schroeder, Elinor Marie — *Cleveland, Ohio*
B.A., University of Wisconsin
Schuldt, Ella Cora — *Platteville*
Ph.B., University of Wisconsin
Schumacher, Waldo — *Pandora, Ohio*
M.A., Ohio State University
Schunk, Oliver Henry g — *Menomonee Falls*
B.S., University of Wisconsin
Schussman, Leo George — *Kaukauna*
Ph.B., University of Chicago
Schwab, Mabel Lloyd g — *Milwaukee*
B.A., University of Wisconsin
Scofield, James Herman — *So. Charleston, Ohio*
B S., Ohio State University
Scrimshaw, Stewart — *Wauwatosa*
B.A., Ohio Wesleyan College

Seaton, Ethel Martha Elizabeth — *Little York, Ill.*
B.S., Monmouth College

Sehon, George Louise — *Louisville, Ky.*
B.S., University of Wisconsin

Seipel, Julia Marie — *Minneapolis, Minn.*
B.A., University of Minnesota

Senty, Walter Benjamin — *Arcadia*
B.S., Northwestern College, Naperville, Ill.

Severance, Luada Eleanor — *Wichita, Kan.*
B.A., Friends University, Wichita, Kan.

Shao, Chia Lin g — *Shanghai, China*
B.A., University of Wisconsin

Shaw, Leland Campbell — *Elwood, Ind.*
B.A., Milton College

Shaw, Mary Margaret — *Wichita, Kan.*
B.A , Fairmont College

Shaw, Raymond Clarke — *Kingston*
B.A., Ripon College

Shaw, Theodora — *Wichata, Kan.*
B.A., Fairmount College

Shaw, William Moses — *Knoxville, Tenn.*
M.S., University of Minnesota

Shellhouse, Daisy Alma — *Dayton, Ohio*
B.A , Miami University

Shelton, Margaret — *Rhinelander*
B.A., University of Wisconsin

Shepherd, Ruth Esther — *Maquoketa, Iowa*
B.A., Grinnell College

Sherman, Courtney Clarence g — *Madison*
Ph.B., University of Wisconsin

Sherman, Margaret S. — *Appleton*
M.A., University of Wisconsin

Shirey, Hazelbelle — *Madison*
B.A., University of Wisconsin

Shirey, William Brown — *Union, W. Va.*
M.A., University of West Virginia

Shores, Roscoe Vernon — *Kansas City, Mo.*
B A., Central College

Shortridge, Annalee — *Terre Haute, Ind.*
B.A., Indiana State Normal

Shout, Leland Morton — *Madison*
B.A., University of Kansas

Silver, Edith — *Indianapolis, Ind.*
B.A., Ripon College

Simmons, William Francis — *Milwaukee*
Ph.B., University of Wisconsin

Simpson, Herbert Downs — *Madison*
M.A., Princeton University

Simpson, Naomi Corene — *Kansas City, Mo.*
B.A., University of Kansas
Sister Devlin Mary Aquinas — *River Forest, Ill.*
M.A., University of Wisconsin
Sister Coleman, Mary Eugene — *Prairie du Chien*
B.A., Marquette University
Sister Mullen, Mary Rosalyn — *Milwaukee*
M.A., Creighton University
Sister Mock, M. Tarsilla — *La Crosse*
B.A., Columbia College
Skoog, Esther Johanna — *Ludington, Mich.*
B.S., Michigan Agricultural College
Slagg, Rodney Arthur — *Ft. Atkinson*
B.A., University of Wisconsin
Smith, Alfred g — *Davis, Cal.*
M.A., Wittenberg College
Smith, Charles Albert — *Bowling Green, Ind.*
B.A., Indiana State Normal
Smith, Francs Louise — *Des Moines, Iowa*
B.A., University of Wisconsin
Smith, Helen Belle g — *Madison*
M.A., University of Wisconsin
Smith, Margaret Elizabeth g — *Liverpool, N. S., Canada*
Ph.B., University of Chicago
Smith, Richard Thomas — *Pullman, Wash.*
B.S., Washington State College
Smith, Rose — *Winona, Minn.*
M.A., University of Illinois
Snell, Sanford Stacey — *Kansas City, Mo.*
B.A., Oberlin College
Snyder, Earl Sidney — Sherwood, Ohio
B.A., Ohio University
Soland, Johanna Grace — *Blair*
M.A., University of Wisconsin
Solberg, Victor — *Eau Claire*
Ph.B., University of Wisconsin
Soller, Theodore g — *Youngstown, Ohio*
B.A., Oberlin College
Souba, Agnes Theresa — *Owatonna, Minn.*
B.A., Carleton College
Southwell, R. Fay — *Maitland, Mo.*
B.A., University of Nebraska
Spencer, Gladys — *Terre Haute, Ind.*
B.A., Indiana State Normal
Spiker, Irene — *Gary, Ind.*
B.S., University of Wisconsin
Staack, Henry Frederick — *Waverly, Iowa*
B.A., University of Nebraska

Staidl, Joseph Arnold — *Madison*
M.S., University of Wisconsin
Stamm, Alfred J. g — *Los Ageles, Cal.*
B.S., California Institute of Technology
Stangel, Wenzel Louis — *College Station, Tex.*
M.A., University of Missouri
Stark, Nina Caroline — *Zion, Ill.*
B.A., University of Wisconsin
Steele, Dewey George g — *Quaker City, Ohio*
M.S., University of Wisconsin
Stein, Bruno Adam — *South Germantown*
B.S., University of Wisconsin
Steinbring, Edward Ferdinand g — *Ripon*
B.A., Ripon College
Steiner, Gretchen Henrietta — *Grinnell, Iowa*
B.A., Grinnell College
Steinle, John Vernon g — *Madison*
M.S., University of Wisconsin
Steuber, Frederick John — *Webster Groves, Mo.*
Ph.B., University of Wisconsin
Stevens, Helen K. — *Independence, Kan.*
B.A., University of Kansas
Stevens, Linton Cooke g — *Madison*
M.A., University of Wisconsin
Stevenson, Charles Stanley — *Sioux Falls, S. D.*
B.A., Yankton College
Stewart, Floyd Reynolds — *Lakewood, Ohio*
M.E., Stevens Institute of Technology
Stewart, Robert Bruce — *Madison*
B.A., University of Wisconsin
Stillman, Ruth Ann — *Milton*
B.A., Milton College
Stivers, Ernest DeRoy — *Auburn, Ala.*
B.S., Iowa State College
Stockton, Ray David — *Stoughton*
B.A., Ripon College
Stone, Ivan McKinley — *Lincoln, Neb.*
B.A., University of Nebraska
Storer, Blanche Etta — *Hoddam, Kan.*
B.A., Kansas Wesleyan University
Strohm, Margaret Irene — *Lovington, Ill.*
B.A., University of Illinois
Strong, Emma Vera — *Sterling, Kan.*
B.A., Sterling College
Su, Shang-Chi — *Canton, China*
B.A., St. John's University
Sugg, Maxey Moss — *Atlanta, Ill.*
B.S., Millikin University

Suhm, Clarence Falk — *Milwaukee*
M.S., University of Wisconsin
Sullivan, Francis Thomas — *Madison*
B.S., University of Wisconsin
Sumner, Margaret Browning — *Cleveland, Miss.*
B.S., Mississippi State College
Sutherland, Margaret — *Eau Claire*
Ph.M., University of Wisconsin
Sutton, Henry Francis — *Green Bay*
Ph.B., University of Wisconsin
Swain, John Milton — *Lizton, Ind.*
B.A., Indiana University
Swanson, Walter H. — *Madison*
B.S., University of Minnesota
Sweeney, Henry Whitcomb — *Chicago, Ill.*
M.S., Columbia University
Swetil, Ellen Marion — *Milwaukee*
B.S., University of Wisconsin
Switzer, Ethel Gladys — *Kansas City, Mo.*
B.S., Kansas State Agricultural College
Von Szeliski, Victor Spartan — *Poughkeepsie, N. Y.*
M.A., Catholic University of America
Tang, Tao Yuan — *Pekin, China*
B.S., University of Wisconsin
Tate, Jennie Leatitia — *Abilene, Tex.*
B.A., Simmons College
Taylor, Arthur Chandler g, m — *Sioux City, Iowa*
B.A., University of Wisconsin
Teed, Jay Raymond — *Kansas City, Mo.*
B.A., Drury College
Teigen, Josephine — *Minneapolis, Minn.*
B.A., Lawrence College
Templer, Charles Solon g — *Shiloh, Ohio*
B.A., Ohio Wesleyan University
Thacker, Florence Kaufman — *La Grange, Ind.*
B.A., Texas University
Thale, Marie Cecilia — *Indianapolis, Ind.*
B.A., Butler College
Thiel, Richard Benjamin g — *Waldo*
Ph.B., University of Wisconsin
Thiele, Carl Fred g — *Green Bay*
B.S., Carroll College g
Thomas, Arthur Carroll — *Youngstown, Ohio*
B.A., Hiram College
Thomas, Clifford Clarke — *La Crosse*
B.A., Milton College
Thomas, Olive Jackman — *Milwaukee*
B.S., University of Chicago

Thomas, Vida Lowe — *Ely, Minn.*
B.A., Milton College
Thomas, Windsor Pipes g — *Pineville, La.*
B.S., Louisiana State University
oThmpson, Harry Landis — *Salt Lake City, Utah*
M.A., University of Nebraska
Thompson, Herbert Omer — *Blue Island, Ill.*
B.A., Baker University
Thompson, Minnie — *Curtiss*
B.A., Northland College
Thornton, Vera Grace — *Goshen, Ind.*
B.A., Goshen College
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M.S., University of Wisconsin
Tiefenthaler, Gustave Edward — *Milwaukee*
B.A., University of Wisconsin
Tiffany, Esther Allison — *St. Paul, Minn.*
M.A., Radcliffe College
Tillman, Nathaniel Patrick — *Atlanta, Ga.*
B.A., Morehouse College
Toeson, Robert Lee — *Rockville, Md.*
LL.M., Nathaniel University
Trauba, Norbert Carl — *Marathon*
M.S., University of Wisconsin
Trentlage, Otto Waterman — *Eden*
B.A., Lawrence College
Trout, Clement Eddy g — *Madison*
B.S., University of Illinois
Tucker, Eugene Weston — *Jonesboro, Ind.*
B.A., Lake Forest College
Turgasen, Anna Julia g — *Richland Center*
Ph.B., University of Wisconsin
Vander Bie, Chauncey L. — *Watertown*
B.A., University of Wisconsin
Van Ermen, Louis — *Green Bay*
B.S., University of Wisconsin
Van Ermen, Marie Antoinette — *Green Bay*
B.S., University of Wisconsin
Van Holten, Dorothy Ruth — *Milwaukee*
B.S., University of Wisconsin
Van Lone, Eldyn Everette g — *Jefferson*
B.S., University of Wisconsin
Vaughan, Florence S. — *Colon, Mich.*
B.S., Michigan Agricultural College
Vaughan, Floyd Lamar — *Providence, R. I.*
M.A., University of Texas
Veazey, Marion Henry g — *Avilla, Ind.*
M.A., Oberlin College

Vestal, Edgar Fred g — *Fruitland, Ida.*
M.S., University of Wisconsin
Vieth, Arnold Anton — *Mineral Point*
B.S., Northwestern College
Viljoen, Jan Augusto g — *Kroonstad, Free State, S. A.*
B.S., University of South Africa
Vincent, Arthur Kirkpatrick — *Jefferson*
B.A., Lawrence College
Vincent, Harold Sellen — *Wessington Springs, S. D.*
B.A., Greenville College
Vivien, Edith g — *Versailles, France*
B.A., Gymnade Lausanne
Wackman, Charline Marie — *Oregon*
B.A., University of Wisconsin
Wade, Gerald Edward a — *Ashland, Ky.*
B.A., Ohio Wesleyan University
Waehler, Leonard A. — *Lomira*
M.A., University of Wisconsin
Wagner, Josephine Ellen — *Aurora, Ill.*
B.A., Lake Forest College
Wahl, Oscar Edwin — *Menomonie*
B.A., St. Olaf College
Walker, Margaret Ruth — *Almond*
B.A., University of Wisconsin
Walker, Ruth Irene g — *Dansville, Mich*
B.A., University of Michigan
Wallace, Raymond Randell — *Enfield, Ill.*
B.S., Illinois College
Wallin, James Roy — *Maryville, Mo.*
Ph.M., University of Wisconsin
Ward, Leon Stevens — *Ft. Collins, Col.*
M.A., University of Colorado
Warner, Elizabeth Dale — *Madison*
B.A., University of Wisconsin
Warner, William Everett g — *Madison*
B.S., University of Wisconsin
Warnock, David Wallace — *Ripon*
B.S., University of Illinois
Warwick, Bruce Lester g — *Madison*
M.S., University of Wisconsin
Waterpool, William Frederick — *Kaukauna*
B.A., Lawrence College
Waters, Helen Margery — *Lexington, Neb.*
B.A., University of Arkansas
Watson, George Earl — *Stevens Point*
B.A., Lawrence College
Watt, Merrill Worthing g — *Madison*
B.S., Kansas State Agricultural College

Webb, Douglas Jenkyn — *Lake Mills*
B.A., University of Wisconsin
Weed, Alfred g — *Madison*
B.S., University of Wisconsin
Weed, Linton Gilmore g, m — *Phelps*
B.S., University of Wisconsin
Wegmann, Linda Hattie g — *Milwaukee*
B.A., Milwaukee Downer College
Wegner, Henry Carl — *Lancaster*
Ph.B., University of Wisconsin
Wehe, Blanche Lucile — *Lakota, N. D.*
B.A., University of Wisconsin
Weingartner, Harry Albert — *Kiel*
B.S., University of Wisconsin
Weinke, Ernest Albert g — *Merrimac*
B.A., University of Wisconsin
Weiss, Nicholas John — *Dundee,Ohio*
Ph.B., College of Wooster
Welden, Margaret — *Centralia, Ill.*
B.A., University of Illinois
Welles, Colin Gilchrist — *Milwaukee*
M.S., University of Wisconsin
Welles, Doris Berger — *Milwaukee*
B.A., University of Wisconsin
Welsh, Michael Charles — *Rockton, Ill.*
B.Ed., Illinois State Normal University
Welty, Mary Lucile — *Madison*
B.A., University of Michigan
Wengel, Raymond W. mw — *Madison*
B.S., University of Wisconsin
Wenger, Mary Savilla — *Wakarusa, Ind.*
M.S., University of Wisconsin
Wenzelmann, Ruth Naomi — *Galesburg, Ill.*
B.S., Knox College
Werner, Raymond Clarence — *Milwaukee*
B.A., University of Wisconsin
Wheeler, Effie Jane — *West Chicago, Ill.*
B.A., Wheaton College
Wheelihan, Harriot Burnton — *Necedah*
B.L., University of Wisconsin
Whipple, Dodothy g — *New York, N. Y.*
B.A., University of Wisconsin
White, Fern Elizabeth — *Holland, Mich.*
B.A., Hope College
White, Helen Constance g — *Roslindale, Mass.*
M.A., Radcliffe College
Whiteford, Dorothy — *Oklahoma City, Okla.*
B.A., University of Oklahoma

Whitford, Earl Lester g — *Edgerton*
M.A., University of Wisconsin
Whitmer, Ralph Glenn g, m — *Madison*
B.S., Cornell College
Whitney, Beryl Esther g — *Madison*
B.A., University of Wisconsin
Wiberg, Ella Lydia — *Kansas City, Mo.*
B.S., Missouri University
Wied, Katherine MacMurtery — *Waupaca*
B.A., University of Wisconsin
Wiener, Joseph Baxter — *Duluth, Minn.*
Ph.B., University of Wisconsin
Wilcox, John — *Detroit, Mich.*
B.A., Indiana University
Wiley, Clarence Alton g — *Austin, Tex.*
M.A., University of Texas
Wilkins, Ethel Mae — *Sharon*
B.S., University of Wisconsin
Williams, Benita Berg — *Madison*
B.A., University of Wisconsin
Williams, Eli Cone — *Oakland City, Ind.*
B.A., University of Michigan
Williams, Lewis Roland — *Colon, Mich.*
B.A., Heidelberg University
Williams, Rachel — *Postville, Iowa*
B.A. Grinnell College
Williamson, Elizabeth — *Galesburg, Ill.*
B.A., Lombard College
Wilson, Elsie Mable — *Glen Easton, W. Va.*
B.A., West Virginia University
Wilson, Ethel May — *Conway, Ark.*
M.A., Vanderbilt University
Wilson, Jessie Wood — *Battle Creek, Mich.*
B.A., Des Moines College
Wilson, John Allen g, m — *Appleton*
B.A., Ripon College
Winden, Julius — *Wisconsin Rapids*
Ph.B., University of Wisconsin
Wipermann, Edgar George — *Sheboygan Falls*
Ph.B., University of Wisconsin
Wiseman, Clinton Raymond — *Brookings, S. D.*
B.S., University of Wisconsin
Witmer, Helen Leland — *Lancaster, Pa.*
B.A., Dickinson College
Witmer, Samuel Wenger — *Goshen, Ind.*
M.A., University of Wisconsin
Wittick, Walter Julius — *La Crosse*
B.A., University of Wisconsin

Wolf, Opal Marie — *Madison*
B.A., Southwestern College
Wood, Alice Louise — *Cleveland Heights, Ohio*
B.S., Western Reserve University
Wood, Charlotte Robertson g — *Madison*
B.A., Lawrence College
Wood, Ella Lucille g — *Berlin*
B.A., Milwaukee Downer College
Wood, Elwin Grant g — *Pullman, Wash.*
B.S., Washington State College
Wood, Mabel Florence — *Pullman, Wash.*
M.S., University of Wisconsin
Wood, Ralph Hereld g — *Madison*
M.A., University of Wisconsin
Woodhouse, Lucile Ann — *Bloomington*
B.A., University of Wisconsin
Woodroffe, Alma Blanche — *Madison, Iowa*
B.A., Oberlin College
Woodworth, Ruth — *Kingfisher, Okla.*
B.A., Oklahoma University
Wright, Warren Finch — *Madison*
B.A., University of Wisconsin
Wyatt, Emily — *St. Joseph, Mo.*
B.A., University of Missouri
Yabroff, Bertha Dorothy — *Sun Prairie*
B.A., University of Wisconsin
Yapp, Clinton R. — *Ridgeway*
B.A., University of Wisconsin
Ying, Ching Yi g
B.A., Soochow University
Yoke, John Jonathan g — *Acton, Ind.*
B.S., University of Illinois
Young, Albert Gaylard g — *Denver, Col.*
D.V.M., Colorado Agricultural College
Young, John James — *West Terre Haute, Ind.*
B.A., Indiana State Normal
Young, Robert Archer g — *Evansville*
B.A., Ripon College
Zinn, Zea g — *Madison*
B.A., Milton College g
Zinns, Roland Williams — *Milwaukee*
B.A., University of Wisconsin
Zorbaugh, Grace S. McClure g — *Cleveland, Ohio*
M.A., University of Wisconsin

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UNDERGRADUATES AND TEACHERS

Letters and Science

Aabele, Thelma Karine	*Madison*
Abel, Curtis Albert	*Salina, Kan.*
Abel, Walter Charles	*St. Paul, Minn*
Abraham, Carolyn	*Chicago, Ill.*
Abraham, Goldie	*Chicago, Ill.*
Ackerson, Clara Monroe, B.A.	*Wyoming, Ohio*
Adams, Carrie	*Dadeville, Ala.*
Adams, Elizabeth Noel	*New Haven, Conn.*
Adams, Helen Thayer ls	*Kansas City, Mo.*
Adams, Jane, M.A.	*Kansas City, Mo.*
Adams, Lawson M. l	*Kenosha*
Adams, Mary Louise	*Evanston, Ill.*
Adsit, Louise Mary	*Owatonna, Minn.*
Agnew, Agnes Jeannette	*Rockford, Ill.*
Ahern, Catharine Mary	*Fond du Lac*
Albrecht, Clarence William ls	*Madison*
Albrecht, Louis John	*Kewaunee*
Albright, Norma Aline	*Bloomington, Ill.*
Aldinger, Frederick Charles, M.A.	*Lansing, Mich.*
Aldrich, Isabel Mary	*Fall River*
Aldridge, Esther, B.A.	*Belfast, N. Y.*
Alleman, Clarence Conrad	*La Crosse*
Alleman, H. Eugene	*Warsaw, Ind.*
Alleman, Madeline Louise	*La Crosse*
Allen, Bess	*Livingston*
Allen, Chester	*Oshkosh*
Allen, Marjorie	*Milwaukee*
Allen, Mary Soretta	*Ft. Atkinson*
Allen, Mildred King	*Webster Groves, Mo.*
Allen, Philip King	*St. Paul, Minn.*
Alter, Evalyn, B.Phy.Ed.	*Oakmont, Pa.*
Altman, Charles Bramman	*New York, N. Y.*
Altman, Cora Dell, B.A.	*Huntington, Ind.*
Alton, Ruby Lucille	*Linden*
Altpeter, Ophelia Anna	*Milwaukee*
Amborn, Lewis William	*Poynette*
Andelson, Ada Markson	*Madison*
Andersen, Agnes Marie	*Chicago, Ill.*
Andersen, Hans M. B.S.	*Eau Claire*
Andersen, Ingrid Louise	*Chicago, Ill.*
Anderson, Agnes Victoria B.A.	*La Porte, Ind.*
Anderson, Amelia Sofia	*Madison*
Anderson, Ann Elizabeth ls	*Columbus*

Anderson, Archie John	*Madison*
Anderson, Calmar T. ls, l	*Chippewa Falls*
Anderson, Carrie	*Troy, Ala.*
Anderson, Delia	*Eau Claire*
Anderson, Harold Thurston ls	*Scandinavia*
Anderson, Helen Margaret	*Madison*
Anderson, Ruth Julia	*Madison*
Anderson, Walter Lester ls	*Chicago, Ill.*
Andress, Gertrude Elizabeth, B.A.	*Norfolk, Neb.*
Andrews, Arthur Clinton ls	*Bloomer*
Andrews, Harriet Moran	*Baraboo*
Andrews, Ruth Helen, M.A.	*Fargo, N. D.*
Appleby, Mary Elizabeth	*Crawfordsville, Ind.*
Appleby, Mariam	*Crawfordsville, Ind.*
Appleby, Una	*Honolulu, Hawaii*
Archer, Edna Dorcas	*Garnett, Kan.*
Arnell, Sadie	*Balsam Lake*
Arnold, Henry Ferris	*Galesburg, Ill.*
Arnold, Matie Louise mu	*Madison*
Ashford, Percy Drummond, Ph.B.	*Polo, Ill.*
Atkins, Ida Lovell	*Cincinnati, Ohio*
Atkinson, Alice Eleanor	*Creston, Iowa*
Atkinson, Loid Roy	*Fond du Lac*
Atwood, Mary Elizabeth ls	*Madison*
Augustus, James David, Jr.	*Louisville, Ky.*
Austermann, Richard Wagner	*Madison*
Austerud, Stella Marie	*Martell*
Baad, Charlotta Margaret	*Cleveland, Ohio*
Baar, Florence ls	*Sheboygan*
Babbitt, Henrietta Catherine	*Virden, Ill.*
Babcock, Bessie Beatrice	*Minneapolis, Minn.*
Babcock, Orpha	*Antigo*
Bachhuber, Alphons Eugene ls, m	*Mayville*
Bachhuber, Hugo Charles	*Mayville*
Backus, Charlotte Carolyn	*Milwaukee*
Bacon, Olive Elizabeth	*Mabel, Minn.*
Bahr, Gladys Matilda	*Manitowoc*
Bahr, Marie Alice	*Berlin*
Bailey, Julia Lorraine ls	*Superior*
Bailey, Ruth, B.A.	*Jacksonville, Ill.*
Baird, Cornelia Anna	*Birmingham, Ala.*
Baird, George Walter	*Florence*
Baity, Ruth, B.A.	*Kansas City, Mo.*
Baker, Elmer Francis, B.A.	*Farley, Iowa*
Baker, Frederick Sherman, Jr. ls	*West Bend*
Baker, Georgia L., B.A.	*Cincinnati, Ohio*
Baker, Grace Elizabeth, B.S.	*Lexington, Ky.*
Baker, H. Wayne	*Le Roy, Ill.*
Baker, Kenneth ls	*Madison*

Baker, Marjorie Beall	*Campaign, Ill.*
Baldwin, Doris Mae ls	*Madison*
Baldwin, Helen Ruth ls	*Waukesha*
Baldwin, Merle Mary, B.A.	*Madison*
Baldwin, Oliver William	*Mountain*
Ball, Heloise Thomas	*Belleville, W. Va.*
Ballam, George A. ls	*Madison*
Ballard, Olive Mabel	*Wayne, Ill.*
Balogh, Emma M.	*Cleveland, Ohio*
Bank, Einar	*Milltown*
Banker, Louis Curtis	*Richland Center*
Bankert, Muriel	*Vermont, Ill.*
Bankhead, Ellen Cary	*Clarksville, Ohio*
Bannack, Marion Evelyn	*Custer*
Banner, Edward Anthony ls	*Chicago, Ill.*
Barber, Gertrude M., M.A.	*Black Earth*
Barbel, Lelia E., B.A.	*Black Earth*
Barbour, Harry Forrest	*Mt. Washington, Mo.*
Barbour, William Stewart	*East Cleveland, Ohio*
Bardeen, Frank Adelma ls	*Milwaukee*
Barden, Lawrence Andrew ls	*Wausau*
Bargar, Harry Hardesty	*Columbus, Ohio*
Barker, Aletha Melissa	*Westfield, Ind.*
Barnard, Chester Smith, B.S.	*Springfield, Mo.*
Barnes, Jane Mae	*Grand Rapids, Mich.*
Barnes, Marie A.	*Darlington*
Barney, John Willis, B.A.	*Munising, Mich.*
Barney, Marion	*Sparta*
Barnick, Melita Helen	*Milwaukee*
Barnum, Mary Elizabeth	*Grand Rapids, Mich.*
Barr, Florence Yates	*Des Moines, Iowa*
Barrett, Anna Emma, B.A.	*Independence, Iowa*
Barron, Mae Kathryn ls	*Camp Douglas*
Barry, Alfred Glen, B.A.	*Nora Springs, Iowa*
Barry, Catherine Lucile	*Chicago, Ill.*
Barry, Catherine Mary	*Argyle*
Barry, Linda Elizabeth ls	*Sauk City*
Barta, Harry Louis	*Phillips*
Bartholomew, George Howard	*Washington, Pa.*
Bartholomew, Roy Arthur	*Fennimore*
Bartle, Gladys Leora ls	*Madison*
Barwig, Byron Ralph ls	*Mayville*
Bash, L. May	*Pittsburgh, Pa.*
Bash, Vera Virginia, M.A.	*Pittsburgh, Pa.*
Batcheller, Mabel Elizabeth ls	*Madison*
Bates, Rolland Curtis	*Mendota, Ill.*
Batha, Vincent P., B.S.	*Phillips*
Bathke, Erwin Charles	*Oshkosh*
Bauder, Donald Clinton ls	*Geneva, Ill.*

Bauer, Joseph Aloysis	*St. Louis, Mo.*
Bauer, Linda Augusta	*Arlington*
Bauer, Sue Newton	*Georgetown, Ohio*
Baumann, Eugenie Adele ls	*Winona, Minn.*
Baumhart, Carl Martin	*Oberlin, Ohio*
Beach, George Harrison ls	*Whitehall*
Beahler, Anna Marie ls	*Ft. Wayne, Ind.*
Beardsley, Vernon Charles ls	*Whitewater*
Bearhope, Mina R.	*De Kalb, Ill.*
Beauchaine, Margaret Hope	*Toledo, Ohio*
Beaumont, Mary B.	*Kansas City, Mo.*
Beck, Dorothy Clement	*Cincinnati, Ohio*
Beck, Herbert Cecil	*Manawa*
Beck, Seigfred Ernest ls	*Wabeno*
Becker, Madeline Love, B.A.	*Grand Rapids, Mich.*
Becker, Marguerite, B.S.	*Adrian, Minn.*
Beebe, Earl Webster, B.A.	*Scales Mound, Ill.*
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Beeckler, Pearle Grace	*Granton*
Beggs, Walter James, M.A.	*Carnegie, Pa.*
Beilenson, Peter Bernard	*Larchmont, N. Y.*
Beitler, Edna Vera	*Boscobel*
Beitling, Cora Emma Elizabeth	*Spooner*
Bell, Charlotte Louise	*Milwaukee*
Bell, Donald Leswing ls	*Milwaukee*
Bell, Paul Bela	*Menomonie*
Bellows, Charles F.	*Maryville, Mo.*
Belscamper, Ida Knapp	*St. Charles, Minn.*
Belsky, Mary	*Antigo*
Bendeke, Elsa Elizabeth ls	*Grand Forks, N. D.*
Benedict, Florence Wealtha	*River Falls*
Benedict, Nita Lois	*Kimberly*
Benedict, Russell Edison	*Kenosha*
Bennett, Jacob Roderick	*Monroe*
Bennett, Virginia Hight	*Madison*
Bennett, William Harold ls, m	*Ft. Atkinson*
Benning, Della Catherine	*Milwaukee*
Benson, Marie S.	*Mauston*
Bentley, Alden Robinson	*Chicago, Ill.*
Beran, Mary Cathryn ls	*Mucoda*
Berardi, James Bernard, Ph.G.	*Chicago, Ill.*
Berberich, Theresa	*Sauk City*
Bergner, Elizabeth Anne, M.S.	*Chicago, Ill.*
Bersh, Anna Elizabeth	*Milwaukee*
Betts, Amy Elizabeth, B.A.	*Montgomery, Mich.*
Betz, Barbara Jean	*Boscobel*
Beyer, Gertrude Margaret ls	*Madison*
Bierke, Ida Helene ls	*Denmark*
Biggs, Ella May	*Minong*

Bigham, Mary N.	*Pittsburgh, Pa.*
Billings, Curtis ls	*Madison*
Bills, Stella May,B.A.	*Elyria, Ohio*
Bilstad, Esther Warne ls	*Cambridge*
Bird, Allene Janice	*Stevens Point*
Birkle, William Wilson	*Sheboygan*
Birnbaum, Frank Albert ls, m	*La Crosse*
Birong, Loraine Anna, B.A. g	*Madison*
Bishop, Bernice Olive	*Portland, Ind.*
Bishop, Florence, B.A.	*Flint, Mich.*
Bistorius, Mildred Ruth	*Milwaukee*
Bjornstad, Irene Alice	*Strum*
Blake, Helen Louise ls	*Chicago, Ill.*
Black, Ruth Ann	*Mahoningtown, Pa.*
Blackman, Leola Margaret ls	*Shreveport, La.*
Blacsky, Emil J.	*Algoma*
Blair, Dorothy	*Bozeman, Mont.*
Blair, Robert Burdick ls	*Plainfield*
Blair, Helen Louise ls	*Madison*
Blakeley, Mildred Lucille, B.S.	*Evansville*
Blanchard, Dorothy M.	*Antigo*
Blanco, Henry ls	*Madison*
Blanding, Pearl	*St. Croix Falls*
Blankinship, Rex	*Richmond, Va.*
Blazer, Frederick Huson	*Aledo, Ill.*
Bleichrodt, Dorothea Frances	*Eau Claire*
Blethen, Everett William	*Madison*
Blewett, Rose	*Fond du Lac*
Bloch, Elsa ls	*New York, N. Y.*
Blodau, George Emil ls	*Madison*
Blodau, Ottilia Caroline ls	*Madison*
Blossom, John Dickson ls	*Peoria, Il.*
Blumenstoch, Loraine ls	*Ludington, Mich.*
Boalt, Agnes Gillett	*Cincinnati, Ohio*
Boarman, Berenice	*Kansas City, Mo.*
Bockelbrink, Leone	*St. Louis, Mo.*
Boebel, Theodore H.	*Sun Prairie*
Boehm, Irene Josephine ls	*Helenville*
Boetcker, Hattie Martha	*Madison*
Bogart, Margaret Catherine, B.S.	*Hannibal, Mo.*
Bogue, Everett Alan ls, le	*Parker, S. D.*
Boll, Kathryn Mae, B.A.	*Rice Lake*
Bolliger, Louise Virgilia ls	*Madison*
Bonar, May	*Glen Easton, W. Va.*
Bonnell, Estelle Marion, B.A.	*Pittsburgh, Pa.*
Bonnell, Margaret Isabel	*Ripon*
Bonner, Estelle	*Salina, Kan.*
Bonniwell, Evelyn Ruth ls	*Hartford*
Booy, Adrie J. de	*Elk River, Minn.*

Borge, Carl P.	*Hudson*
Born, Agnes Leone	*Milwaukee*
Born, Louise Goldie	*Milwaukee*
Borough, Bettie Cherry	*Carlinville, Ill.*
Borrowman, Helen Isabel	*Vincennes, Ind.*
Borwell, Robert Carne	*Oak Park, Ill.*
Bosshard, John Adolph ls	*Bangor*
Bostwick, Harold King l	*Chardon, Ohio*
Botsford, Frances Rose	*Platteville*
Botsford, Wilhelmina Isabelle ls	*Janesville*
Bott, Herbert Joseph	*La Crosse*
Botten, Isa Olivia ls	*Boscobel*
Bottensek, Anne Elizabeth ls	*Medina*
Bow, Marion Edna	*Milwaukee*
Bowen, Evelyn Agnes, B.A.	*Iowa City, Iowa*
Bowen, Grace Carroll	*Wilmington, N. C.*
Bower, Janet Catherine	*Ft. Wayne, Ind.*
Bower, Lester Oren	*Van Wert, Ohio*
Bowlby, Bessie Izetta	*Green Valley, Ill.*
Bowler, Irene Kathryn	*Joliet, Ill.*
Bowler, Margaret Wilfrieda	*Joliet, Ill.*
Bowles, Lois A.	*Chicago, Ill.*
Bowman, Herbert Lloyd, B.S.	*De Soto, Mo.*
Bowron, Anne Marie, B.A.	*Hiawatha, Kan.*
Box, Quintilla Mae	*Lavina, Mont.*
Boy, Carl Henry ls	*Madison*
Boyd, Eleanor Elizabeth, B.A.	*Pekin, Ill.*
Boyd, Catherine Hahn ls	*Sturgeon Bay*
Boyd, Lena Belle, B.A.	*Pekin, Ill.*
Boyington, Georgiana	*Hurley*
Braatz, Evelyn Marie	*Green Bay*
Brach, Henry Gustav	*Mukwonago*
Brachman, Louis ls, m	*Milwaukee*
Brader, Mary Bradley ls	*Madison*
Bradfield, Richard, Ph.D.	*Columbia, Mo.*
Bradford, Carl William	*Hudson*
Bradle, Leo James ls	*Laona*
Brady, Katherine Cecil	*Oshkosh*
Braem, Selma	*Alma*
Brandenburg, Wesley Wellington	*La Crosse*
Brandstedter, Rosezella Burnadine	*Humbird*
Branton, James Ernest	*La Valle*
Brash, Berryl Marion	*Ashtabula, Ohio*
Braucht, Mildred E.	*Joy, Ill.*
Braun, Gertrude Frances	*Wahpeton, N. D.*
Bray, Helen Marie	*Mattoon, Ill.*
Breene, Agnes T. ls	*Reedsburg*
Brehmer, Robert George ls	*Fond du Lac*
Brennan, Margaret Patricia	*Chicago, Ill.*

Brennecke, John Alexander ls	*Aurora, Ill.*
Breslauer, Nathaniel Pereles	*Milwaukee*
Brewington, Kathryn Jane	*Madison*
Briggs, Mary Elizabeth ls	*Madison*
Brill, Laura	*Milwaukee*
Brindley, Benjamin Isaac ls	*Boscobel*
Brock, George Cameron	*Kenilworth, Ill.*
Broemmelsiek, Clara	*St. Louis, Mo.*
Bromley, Gladys Merritt, B.A.	*Stockton, Md.*
Brookmire, Emma Frances	*Marinette*
Brooks, Arbie LeRoy ls, m	*Madison*
Brooks, Irene Groth ls, m	*Madison*
Brooks, Jesse Herbert	*Delavan*
Brosey, Charles Lee, M.A.	*Union City, Ind.*
Brouse, Florence Louise, B.A.	*Rockford, Ill.*
Brouse, Lillian, B.M.	*Rockford, Ill.*
Brown, Arlene Jane, B.S.	*Abilene, Kan.*
Brown, Bessie	*Racine*
Brown, C. Oscar	*Eau Claire*
Brown, Earl Don, M.A.	*Madison*
Brown, Gaylor McKinn	*Whiting, Iowa*
Brown, George Thompson	*Cleveland, Ohio*
Brown, Georgia Lillian, B.A.	*Webster, S. D.*
Brown, Gordon Carl	*Auburndale*
Brown, Jessie Beatrice	*Kansas City, Mo.*
Brown, Leslie Edwin, B.A.	*Whiting, Iowa*
Brown, Mabel D., B.A.	*Marquette, Mich.*
Brown, Margaret Louise ls	*Waupun*
Brown, Mercer Thomas	*Chicago, Ill.*
Brown, Monica Patricia	*Chicago, Ill.*
Brown, Oscar Phelps	*Junction City, Kan.*
Brown, Rowena ls	*Madison*
Brown, Warren Henry ls	*St. Louis, Mo.*
Browne, Edith Eleanor	*Toledo, Ohio*
Browne, Margaret	*Pentwater, Mich.*
Bruce, Florence Linnette	*Kempton, N. D.*
Bruce, Violet Grace Wellbourne	*Madison*
Bruckner, Mabel Amelia, B.S.	*Hastings-on-Hudson, N. Y.*
Brummeler, Marguerite C.	*Grand Rapids, Mich.*
Brundige, Lyla Ruth ls	*Geneva, Ill.*
Brunstad, Olga Evelyn	*Chippewa Falls*
Bruss, Carl Ernest	*Lancaster*
Bryant, Beth	*Dallas, Tex.*
Bryant, Hettie Lee	*Dallas, Tex.*
Bubolz, Anna Agnes	*Seymour*
Buchanan, Doris Mary	*New Auburn*
Buchanan, Lenore Carter	*Oklahoma City, Okla.*
Buckeridge, Bess Belle, B.S.	*Webb City, Mo.*
Buckeridge, Charles Rex	*Sheboygan*

Buckmaster, Sada Eleanor, B.A.	*Madison*
Buckstaff, Benjamin Oak	*Milwaukee*
Budde, Helen Irene, B.S. ls	*Chicago, Ill.*
Buel, Estelle Marie	*Lakewood, Ohio*
Buelow, Laura Veronica ls	*Waupun*
Buley, R. Carlyle, M.A. g.	*Madison*
Bulley, Kenneth George ls	*Marinette*
Bump, Fern LaSage	*Ripon*
Bump, Millard ls	*Madison*
Bunting, Theresa Viola, B. Ed.	*Mt. Erie, Ill.*
Burgess, Caroline Elizabeth	*Shreveport, La.*
Burke, Elizabeth	*West De Pere*
Burke, Lillian Wilhelmina	*Grand Rapids, Mich.*
Burke, Lorette	*Waukegan, Ill.*
Burke, Margaret Claire	*West De Pere*
Burkhart, Louise Gertrude	*Rhinelander*
Burner, David Milton	*Decatur, Ill.*
Burns, Dorothy Estelle ls	*Madison*
Burns, Sanford Robey, B.A.	*Jacksonville, Ill.*
Burr, Margaret	*Bloomington, Ill.*
Burrows, Benjamin ls	*Boardman*
Burwell, Amelia	*Madison*
Busche, Louise Marie	*Monroe, Ind.*
Buser, Eleanor L.	*Paterson, N. J.*
Bush, Carrie M., B.A.	*Minneapolis, Minn.*
Bushnell, Jessie	*Antigo*
Busse, Warren Froeming ls	*Algoma*
Butler, Eleanor Bell ls	*Evanston, Ill.*
Butler, Frank Arthur ls	*Jacksonport*
Butt, Jane H., M.A.	*Viroqua*
Butterbrodt, Aleda Augusta	*Beaver Dam*
Butts, Porter Freeman ls	*Springfield, Ill.*
Bybuth, Matilda, B. A.	*Eau Claire*
Byler, Vera Cecile	*Moorhead, Minn.*
Byrne, Alice Mary	*La Crosse*
Byrns, Julia Eleanor	*Madison*
Cain, Beth Louise	*Elkhorn*
Cain, Valeria Mary	*Kiel*
Caldwell, Dorothy Rose ls	*Milwaukee*
Caldwell, Grace Morse	*Lakewood, Ohio*
Caldwell, Harold Ferguson ls	*Morrisonville*
Caldwell, Hazel Gertrude	*Lakewood, Ohio*
Callahan, Julia Tormey	*Madison*
Callaway, Mildred Ione, B.A.	*Monett, Mo.*
Callen, Carroll Francis ls	*Milwaukee*
Cameron Anna Margharetta, M.A.	*Burwell, Neb.*
Cameron, Harry Webb	*Appleton*
Camp, Annie	*Warren, Ark.*
Campbell, Calvin Arthur	*Indian River, Mich.*

Campbell, Helen Alice	*Holly, Mich.*
Campbell, Margaret Agnes	*Lansing, Mich.*
Campbell, Margaret Gailey ls	*Chicago, Ill.*
Campbell, Mayme Anne	*Franklin, Ind.*
Campbell, Pera N. R. E., B.A.	*Wapakoneta, Ohio*
Campbell, Ruth E.	*Pasaedena, Cal.*
Cannady, Ada Josephine, M.A.	*Hutchinson, Kan.*
Cant, Harry Russell ls	*Westfield*
Canuteson, Elsie Elizabeth ls	*Madison*
Canuteson, Ralph Irving ls, m	*Madison*
Canuteson, Richard Lewis ls	*Arcadia*
Cape, Mary Josephine	*Madison*
Carey, Leon A. ls	*Marion*
Carleton, Gilbert Davis ls	*Oak Park, Ill.*
Carleton, William Peter	*St. Louis, Mo.*
Carlson, Signe Emilie	*Marinette*
Carlton, Luelda Fern, B.A.	*Toledo, Iowa*
Carpenter, Margaret Marie ls	*Baraboo*
Carroll, Laura Elizabeth	*Ogden, Utah*
Carroll, Theresa Marie	*Indianapolis, Ind*
Carruthers, Albert Blanton, Jr.	*Memphis, Tenn.*
Carson, Mary Lois, B.A.	*Lexington, Ill.*
Carter, Dale E.	*Tulsa, Okla.*
Carter, Helen Clark, B.A.	*St. Cloud, Minn.*
Cartwright, Ian J., B.A.	*Minong*
Cartwright, Rex Benton	*Minong*
Cary, Jessie Phoebe, B.Pe.	*Webb City, Mo.*
Case, Everett Norris	*Frankfort, Ind.*
Case, William O.	*Marion*
Casselman, William Allen ls	*Milwaukee*
Casterline, Robert Dickinson ls	*Milwaukee*
Cavanagh, Catherine S. ls	*Chicago, Ill.*
Cavanagh, Gladys Louise ls	*Madison*
Cavanaugh, John Stephen ls	*Madison*
Cavanaugh, Marguerite Rose	*Black Earth*
Caves, Bernice Luella	*Coloma*
Cawley, Regina	*Wausau*
Chalfant, Lena Ethel, B.A.	*Belleville, Ohio*
Chamberlain, James Henry	*Wisconsin Rapids*
Chamberlaine, Charles Frederick L.	*Englewood, N. J.*
Chambers, Carrie Ethel	*Chicago, Ill.*
Chambers, Gladys Nickey	*Reedsburg*
Chambers, Lula Marie, B.A.	*North Ridgeville, Ohio*
Chandler, Edward Prescott	*Appleton*
Chang, Anna Oen I. ls	*Kinkiang, China*
Chang, Hsi-Lu	*Tientsin, China*
Chang, Sien Tuh	*Shanghai, China*
Chapin, Daisy Winifred	*Winslow, Ill.*
Chapman, Edwin James	*Oshkosh*

Chard, Mary Louise	*Chicago, Ill.*
Charlton, Elizabeth, B.A.	*Omaha, Neb.*
Charnley, Enola	*Alexandria, La.*
Chase, Hamilton ls	*Topeka, Kan.*
Chavis, Alex	*Chicago, Ill.*
Cheney, J. Clayton ls	*Milwaukee*
Cheney, Margaret Louise, B.A.	*St. Louis, Mo.*
Cherry, Jeannette ls	*Kenilworth, Ill.*
Chew, Robert Yow	*Ann Arbor, Mich.*
Chittenden, Harriet Raynor	*Kansas City, Mo.*
Chou, Chen-Sheng ls	*Chunking, China*
Chrisler, Marie Elizabeth ls	*Beaver Dam*
Christ, Austin Francis	*Wausaukee*
Christensen, Bernard Victor, Ph.B. g	*Augusta*
Christensen, Florence Marian	*Waupaca*
Christensen, Laurence Christian ls	*Racine*
Christensen, William C. ls	*Madison*
Christenson, Christine Amanda	*Stoughton*
Christianson, Arthur William, B. A.	*Porterfield*
Christie, Martha Elizabeth	*Superior*
Christoph, Earle ls	*Hamilton Lake, Fla.*
Cisne, Willis Gerard	*Carbondale, Ill.*
Clancy, Laura Louise	*Evanston, Ill.*
Clancy, Mary Margret	*Miwaukee*
Clare, Minnie Altsman	*Portsmouth, Ohio*
Clark, Catherine ls	*Wisconsin Rapids*
Clark, Dorothy Adaline	*Waterloo*
Clark, Helen Harris	*Williston, Vt.*
Clark, Irene Elizabeth	*Oregon*
Clark, Marjorie Carolyn	*Indianapolis, Ind.*
Clarke, Isabella Jane	*Kansas City, Mo.*
Clarke, Leota B., B.S.	*Canton, Ohio*
Clarke, Marcus Jerome, B.S.	*Anchorage, Ky.*
Clarke, Mary Virginia	*Kansas City, Mo.*
Clarkson, Mildred L.	*Anthony, Kan.*
Classman, John William ls	*Milwaukee*
Clay, Gladys Pickett	*St. Louis, Mo.*
Cleary, Marie Agnes	*Chicago, Ill.*
Cnare, Rose F.	*Madison*
Coates, Charles Irwin	*Hartland*
Coffey, Marie	*Rockford, Ill.*
Colbeck, Myron Burton ls	*Superior*
Cole, Ruth Etta	*Lodi*
Coleman, Eleanor Augusta	*Milwaukee*
Collier, Marcella Irene, B.A.	*Flint, Mich.*
Collins, Ethel Margaret	*Wichita, Kans.*
Collins, Helen Marie	*Indianapolis, Ind.*
Collins, Irene Mary	*Chicago, Ill.*
Collins, John Carleton ls	*Madison*

Collins, Mabel Elizabeth	*Indianapolis, Ind.*
Collins, Mary Helen	*Madison*
Collins, Maude Miller	*Madison*
Colton, Mabel Adella, B.A.	*Sheboygan*
Comings, Mary Huntington, M.A.	*Eau Claire*
Compton, Josephine Lathrop ls	*St. Louis, Mo.*
Compton, Ralph Osgood, M.E.	*Waukesha*
Conine, William Hinman	*Madison*
Conklin, Catherine Gertrude ls	*Chicago, Ill.*
Conklin, Ruth Grace	*Chicago, Ill.*
Conley, Edwin Beck	*Champaign, Ill.*
Conley, Margaret Mary	*Darlington*
Conlin, Marion Cecele	*So. St. Paul, Minn.*
Connoran, Irene Elizabeth, B.A.	*Indianola, Iowa*
Conrad, Erna Barbara	*Cincinnati, Ohio*
Conroy, Catherine Josephine	*Lake Geneva*
Conroy, Elizabeth Isabelle	*Chicago, Ill.*
Conway, Helen Luft ls	*Wisconsin Rapids*
Conyne, Hazel Eugenia	*Cleveland, Ohio*
Cook, Donald L.	*Montfort*
Cook, Guy Shimer, M.A.	*Manhattan, Kan.*
Cook, Izola	*Independence, Mo.*
Cook, Kenneth Earl ls	*Madison*
Cook, Mabel Claire	*Kansas City, Mo.*
Cooper, George Olds ls	*Evanston, Ill.*
Cooper, Hattie Catherine A.	*Fond du Lac*
Cooper, Jennie Alice	*Oconomowoc*
Cooper, Mary	*Milwaukee*
Corder, Florence Victoria, B.A.	*Zion, Ill.*
Cornelius, Edwin Thomas, M.A.	*Madison, Mo.*
Cosgrove, Leone Elizabeth	*Eau Claire*
Costello, M. Genevieve	*Chicago, Ill.*
Cotton, Margaret Wood	*Grand Haven, Mich.*
Couch, John Nathaniel, M.A.	*Chapel Hill, N. C.*
Coulter, Harold Leroy ls	*Madison*
Courtney, Charles James ls	*Madison*
Covalt, Ruth Zella	*Kokomo, Ind.*
Covey, Cora Lottie	*Akron, Ohio*
Coveyou, Emil Damian	*Janesville*
Cox, Ebenezer May	*Montfort*
Cox, Rose Lavinia	*De Pere*
Coyne, James Howard	*Madison*
Coyner, James McKee, B.A.	*Jefferson*
Craig, John Alexander, M.A.	*Muskegon, Mich.*
Craig, Mary Watson	*Greencastle, Pa.*
Cram, Helen Louise	*East Cleveland, Ohio*
Crandall, Clayton Archie, B.A.	*Sheboygan*
Crandall, Helen M.	*Duluth, Minn.*
Crandall, Luella Blanche	*Wahpeton, N. D.*

Crane, Isabel	*Eau Claire*
Crane, Mary Elizabeth	*Muskegon, Mich.*
Crans, Murrel	*Kansas City, Mo.*
Cravens, Sara Rebecca	*Hickman, Ky.*
Crawford, Emily Sheppard	*Little Rock, Ark.*
Creighton, Catherine Carpenter	*Janesville*
Cremer, Dorothy Rita, B.A.	*Red Wing, Minn.*
Crew, Alice Hargrave, M.A.	*Evanston, Ill.*
Crilley, Hazel Ehredt ls	*Milwaukee*
Christman, Ezra Dormer l	*Milwaukee*
Croal, Fredonia Agnes	*Milwaukee*
Crockett, Samuel Edward	*Menasha*
Cromor, Katherine ls	*Aurora, Ill.*
Croot, Della Frances, B.A.	*Iowa Falls, Iowa*
Cropley, Leona Mae	*Solon Mills, Ill.*
Crosswait, Scott Thomson	*Madison*
Crowe, Jean Ferguson	*Truro, Nova Scotia, Canada*
Crowl, Felice Marjorie, M.A.	*Cleveland, Ohio*
Csutoros, Wilma	*Cleveland, Ohio*
Culpeper, Marian Gertrude	*Chicago, Ill.*
Culpeper, Marian Gertrude	*Kansas City, Mo.*
Cummings, Riol Wilson	*Lambert, Mont.*
Cunningham, Margaret	*Mazomanie*
Cunningham, Wayland Briggs	*Allendale, Ill.*
Curdie, Minnie Jean	*Mt. Olive, Ill.*
Curnow, Nydia	*Stambaugh, Mich.*
Currie, Ada Irene ls	*Loda, Ill.*
Currier, Julia May, B.A.	*Arlington Heights, Mass.*
Curtis, Ina Leila	*Portage*
Curtner, Pauline Ann	*Dayton, Ohio*
Dahl, Lawrence Gustave ls	*Marinette*
Dale, Roger Allen ls	*Madison*
Dale, Ruth Geraldine, B.A.	*Chicago, Ill.*
Daniel, Eliza, B.A.	*Ishpeming, Mich.*
Daniels, Grace Edith	*Babcock*
Darling, Florence Alta	*Brownsville, Minn.*
Darton, Claire Edna	*Loyal*
Dauffenbach, Minnie Kyle	*Milwaukee*
Daugherty, Wave Nathalie	*Iron Mountain, Mich.*
Davee, Henry A., Ph.B.	*River Falls*
David, Elizabeth Blair	*Muskegon, Mich.*
Davidson, Arthur William, Ph.D.	*New York, N. Y.*
Davidson, Edward Apps	*New Orleans, La.*
Davidson, Emily Katheryn ls	*Hinsdale, Ill.*
Davies, Doris Alene	*Cleveland, Ohio*
Davies, Gladys Anna	*Madison*
Davies, John Daniel	*Wild Rose*
Davies, Nellie Eleanor	*Oshkosh*
Davis, Bessie	*Portage*

Davis, Eleanor Southgate	*Colorado Springs, Col.*
Davs, Helene Kincaid ls	*Paris, Ky.*
Davis, Holland William	*Cleveland, Ohio*
Davis, James Glenn, B.S.	*Terre Haute, Ind.*
Davis, John D.	*Newton, Ill.*
Davis, Mary Corwin	*Portage*
Davis, Phyllis Clara	*Madison*
Dawes, Anna	*Grand Rapids, Mich.*
Dawson, George Walter ls	*Dalhart, Tex.*
Dawson, John Coleman ls	*Dalhart, Tex.*
Day, Esther Victoria, B.A.	*Bement, Ill.*
Day, Florence Charlotte	*Appelton*
Dayton, Francis Spencer, B.D.	*New London*
Dean, Dorris A.	*Vassar, Mich.*
Dean, Ella Rose, B.Ed.	*Pittsfield, Ill.*
Dearth, Otto Art, M.A.	*Summerfield, Ohio*
De Base, Jessie Marie	*Stevens Point*
De Camp, Cecelia	*St. Louis, Mo.*
Decker, Charles Ernest, M.A.	*Kewaunee, Ill.*
Decker, Charles Rutherford ls	*Milwaukee*
Deinse, Lillian-van	*Pasadena, Cal.*
Delaney, Dorothy Florence	*Erie, Pa.*
Delbridge, Helen Josephine	*Detroit, Mich.*
Demaree, Glenn	*Winnebago, Ill.*
De Mesa, Jesus Dionida ls	*Alaminos, Laguna, P. I.*
Demetropulos, N. Demetrius ls, m	*Madison*
Denig, Herbert Dave ls	*Burlington*
Dennis, Louise	*Ashland*
De Nosaquo, Norman Victor ls, m	*Milwaukee*
Densmore, Laura	*Sharon*
Denyes, Mary Elizabeth, M.A.	*Madison*
Derrwaldt, Byron Dorneck, Ph.B.	*Plymouth*
Desloge, Zoe Jane	*St. Louis, Mo.*
Desmond, Susan Isabell, M.A.	*Madison*
Detlef, Hilda Emily	*Davenport, Iowa*
Deutsch, Harold Charles ls	*Milwaukee*
Devine, Kathryn Jane ls	*Madison*
Devine, Mary Louise ls	*Madison*
De Voy, Ruth Viola ls	*Madison*
De Weese, Archibald Prewitt	*Lexington, Ky.*
Diamant, Lester Bernard	*St. Louis, Mo.*
Diamond, Samuel Eugene	*Chicago, Ill.*
Dick, Irma Josephine ls	*Marshfield*
Dickerhoff, Della Theodora	*Milwaukee*
Dickerson, Frances Olivia	*Kansas City, Mo.*
Dickinson, Elizabeth G.	*Homer, N. Y.*
Dickinson, Russell Edward, B.A.	*Shellsburg, Iowa*
Di Cosola, Ralph Michael	*Chicago, Ill.*
Diefendorf, Alice F. ls	*Madison*

Diefenthaler, Helen Marjorie	*West Salem*
Dier, Nellie	*Bad Axe, Mich.*
Dietrich, Carlisle	*Madison*
Dietrich, George Earl 1	*Madison*
Dietsch, Leland C.	*Plymouth*
Diffenderfer, Vera Margery	*Danville, Ill.*
Digby, Katherin Marie	*Webster Groves, Mo.*
Dikeman, Clif Stephen ls	*Farmington, Ill.*
Dimmock, Laura Mable	*Iola*
Dine, Lockie Florence	*Milwaukee*
Dinsmore, Maud Zulome	*Delavan*
Dishmaker, Melvin C., B.A. g, m	*Algoma*
Dittmer, Margaret Ada	*Augusta*
Dix, Pearl	*St. Louis, Mo.*
Dixon, John	*Columbus*
Dixon, Kathryn Adora	*Brodhead*
Dobson, Mary Irene	*Chicago, Ill.*
Dodez, Edward Cramer	*Ft. Wayne, Ind.*
Dodge, Edward Sabin ls	*Lake Mills*
Dodge, Martha Maria	*Sauk City*
Doherty, Marie Margaret	*Chicago, Ill.*
Dolan, Gertrude Genevieve	*Oak Park, Ill.*
Dolan, Isabelle Anna	*Cleveland, Ohio*
Dollard, Marguerite Mary ls	*Madison*
Donahoe, Mary Catherine	*Oshkosh*
Donnelly, Louise Dolores ls	*La Jolla, Cal.*
Donoho, Pearl Hannah, B.A.	*Omaha, Neb.*
Donovan, Theresa	*Kansas City, Mo.*
Donovan, Winifred Margaret	*Detroit, Mich.*
Donyes, Jesse Nelson ls	*Madison*
Doolittle, Alma Helena ls	*Madison*
Doran, Myron John	*Chicago, Ill.*
Doran, Romana Elizabeth	*Rockford, Ill.*
Dorman, Beatrice Louise, B.A.	*Freeport, Ill.*
Dornbush, Herman Carl	*Sheboygan*
Dorr, Charles Henry	*Elkhart Lake*
Dortland, Lloyd W.	*Wausau*
Dougherty, Bertie Fay	*Weyauwega*
Dougherty, Burl Lee	*Milwaukee*
Dougherty, Lawrence Vaughn	*Eau Claire*
Douglass, Harl R., M.A.	*Eugene, Ore.*
Douglas, Laura Stewart ls	*Milwaukee*
Dow, Arline ls	*East Lansing, Mich.*
Doxrude, Cora Selma	*Iola*
Doyle, Omer Nicholas ls	*Highland*
Drabnik, William Bastar	*Algoma*
Drager, Olive Mabel	*Pocahontas, Iowa*
Drake, Lauren Jay	*Chicago, Ill.*
Dravis, Faith Emelia	*Prescott*

Draxler, Grace B.	*Park Falls*
Drews, Alice Marion ls	*Chicago, Ill.*
Drews, Mildred Gladys	*Cleveland, Ohio*
Driessen, Sherburn Moore ls	*Marian*
Driscoll, Blanche Marie	*Hastings, Minn.*
Driscoll, Marie Bernadette	*Willow River, Minn.*
Driskill, Edna Mae, B.A.	*Ada, Okla.*
Duda, Theresa Maria	*Bloomer*
Duffy, Edward Francis ls	*Watertown*
Duffy, Frances Marguerite	*Chicago, Ill.*
Duffy, Loretta Christina	*Chicago, Ill.*
Duhlmeier, Helen Amelia	*Cincinnati, Ohio*
Duncan, Margery	*Columbus Junction, Iowa*
Duncan, Neal, B.S.	*Mt. Carroll, Ill.*
Dunham, Paul Avering ls	*Elkmound*
Dunham, Rex James ls	*Madison*
Dunlap, Elizabeth Jane	*Pontiac, Ill.*
Dunn, Franklin H.	*Madison*
Dunn, Perry Kelly, B.S.	*Duluth, Minn.*
Dunnigan, Katherine Frances	*Omaha, Neb.*
Dunwiddie, Katherine	*Delavan*
Durfee, Genevieve	*Novi, Mich.*
Durkes, Leona	*Dixon, Ill.*
Duvall, Flora Irene, B.A.	*Salt Lake City, Utah*
Dworkin, Louis	*Detroit, Mich.*
Dwyer, Marjorie, B.A.	*Taylorville, Ill.*
Dwyer, Martha Helen	*Chicago, Ill.*
Dwyer, Mildred	*Stonington, Ill.*
Dyer, Gladys Elizabeth	*Brookston, Ind.*
Dyer, Grace Estella	*Brookston, Ind.*
Dyer, Mary Willis	*St. Louis, Mo.*
Earls, Lester Thomas	*Dell Rapids, S. D.*
Earls, Upton Sidney, B.A.	*Dell Rapids, S. D.*
Early, Florence Lenore	*Adrian, Mich.*
East, Ruby Jane, B.A. g	*Greenville, Tex.*
Easton, Marie Millard	*Indianapolis, Ind.*
Eastwood, Anna Vera ls	*Platteville*
Eaton, Dorothy Louise ls	*Madison*
Ebbert, C. Claude, M.A.	*La Salle, Ill.*
Echols, Dean Holland	*Milwaukee*
Eckart, Dorothy Beall, B.A.	*Collinsville, Ill.*
Eddy, Beatrix Maude	*Alpena, Mich.*
Eddy, Elsie Claire, B.A.	*Albion, N. Y.*
Edick, Edward Everette	*Antigo*
Edmonde, Charles Crawford, B.A.	*Watertown*
Edwards, Helen Broeckel	*Cleveland, Ohio*
Edwards, Helen Lucile, B.A.	*Delaware, Ohio*
Edwards, Irene Louise	*La Crosse*
Edwards, John Leon, B.A.	*Leipsic, Ohio*

Edwards, Maud	*Sterling, Ill.*
Edwards, **Vivien Lee**	*Madison*
Egan, Oswald Richard ls, l	*Highland*
Egan, Wilfred Martin	*Highland*
Eggers, Cecelia Marie Ellen	*Whiting, Ind.*
Eggman, Carl Manson, M.A.	*Walton, Ind.*
Ehrlich, Jacob I. ls	*La Crosse*
Eisenberg, Barbara Rose	*Coney Island, N. Y.*
Eisenberg, Louis Abels	*Milwaukee*
Ekdahl, Sigurd Neal	*Austin, Tex.*
Ekern, Lila May ls	*Madison*
Ekern, Ruth Jeanette	*Madison*
Eldred, Mabel Corolyn, B.A.	*Oberlin, Ohio*
Elleson, La Verne Ethel	*West Allis*
Ellinger, Emma Grace	*Princeton*
Ellingson, Anita Marie	*Wautoma*
Ellingson, O. Frederick ls	*Edgerton*
Elliott, Mina A.	*Omaha, Neb.*
Elliott, William ls, m	*Madison*
Ellis, Della Marie	*Chicago Heights, Ill.*
Ellis, Margaret	*Pittsburg, Pa.*
Ellis, Samuel Eugene	*Buffalo, N. Y.*
Elpers, Wendell Herman	*Ft. Branch, Ind.*
Elsom, Kendall A. ls, m	*Madison*
Elster, Oscar Rudolf, B.A.	*Eureka, S. D.*
Emanuel, Karl William ls, m	*Shawano*
Emerson, Louise Lindsley, M.A.	*Baker, Mont.*
Emerson, Milton Kenneth	*Ridgefield, Park, N. J.*
Empey, Fyrn	*Algoma*
Emrich, Ruth Mary	*Indianapolis, Ind.*
Endelbrock, Elizabeth	*Cincinnati, Ohio*
Endres, Eulalia Elizabeth	*Madison*
Enger, Carl	*Appleton*
Engle, J. Howard, B.A.	*Abilene, Kan.*
Engstrand, Elna Josephine	*Wheaton, Ill.*
Enright, Paul Robert ls	*Mauston*
Eppert, Josie Rosella	*Cincinnati, Ohio*
Erbach, Christine Elizabeth	*Athens*
Erickson, Edith Thelma	*West Allis*
Erickson, Esther Irene	*Denmark*
Erie, Frances Elizabeth, B.S.	*Brookings, S. D.*
Eschweiler, Paul ls, m	*Madison*
Esser, Bernadine Vivian	*Milwaukee*
Esser, Richard	*Sauk City*
Estabrook, Eudora Porter	*Grand Rapids, Mich*
Evans, Ben Davison	*Cincinnati, Ohio*
Evans, Bertha Elizabeth	*Pekin, Ill.*
Evans, Corinne Phoebe, B.A.	*East Cleveland, Ohio*
Evans, Evan Alfred ls	*Baraboo*

Evans, Mildred Josephine	*Pittsburgh, Pa.*
Evans, Robert Morris	*Russiaville, Ind.*
Evenson, Agnes Karen	*Iola*
Everett, Helen, M.A.	*Providence, R. I.*
Ewertz, Henry	*Milwaukee*
Fahey, Lucille Margaret	*Kansas City, Mo.*
Fairbrother, Roy	*Argonne*
Faith, Emil F.	*Fennimore*
Faithorn, Edith Louise ls	*Wauwatosa*
Falk, Rolf Orlando, B.A.	*Stoughton*
Falkins, Ercel Louise	*San Jose, Ill.*
Falls, Ida	*Chicago, Ill.*
Farley, Ellen Louise	*Columbus*
Farley, Harriet L.	*Kenosha*
Farmer, Hazel Kathryn, B.A.	*St. Louis, Mo.*
Farnum, Frances	*Kansas City, Mo.*
Farrell, Loretta Irene	*Milladore*
Farrington, Evan Stanley, B.A.	*Ft. Worth, Tex.*
Farrington, Isabel ls	*Madison*
Favreau, Dorothy Jewell	*Fond du Lac*
Fearnside, Reyburn	*Muskogee, Okla.*
Feather, Ruth	*Fairmont, W. Va.*
Fehlandt, Philip Raymer, B.A.	*Ripon*
Fehlandt, Thelma Stocks	*Ripon*
Fehlhaber, Esther Marie	*Wausau*
Feist, Grover Cleveland	*Coloma*
Fellenz, Margaret	*Campbellsport*
Fellows, Frank Carroll	*Lodi*
Felten, Rufus Benjamin	*Milwaukee*
Fenimore, Harold Emory	*Economy, Ind*
Fenn, Camilla ls	*Prophetstown, Ill.*
Ferber, Frieda Elise	*Sauk City*
Ferguson, Boyd Lee	*Wonewoc*
Ferguson, Clarence Water, Jr. ls	*Troy, N. Y.*
Fickert, Herta Leona	*Milwaukee*
Field, Ted H. ls, l	*Rice Lake*
Finley, Evelyn Lucile	*Cleveland Heights, Ohio*
Fischer, Malitta Dorothy	*Madison*
Fisher, Ethel May	*Evansville*
Fisher, Harry Jerome	*Ridgefield Park, N. J.*
Fisher, Susie	*Houston, Tex.*
Fissell, Merle Mirian	*Freeport, Ill.*
Fitzgerald, Margaret Helen	*New London*
Fitzpatrick, Clara Ann	*New Orleans, La.*
Fjeldstad, Laura Alice	*Wells, Minn.*
Flanagan, Clarence Bryan	*Iron River, Mich.*
Flanagan, Elizabeth Louise	*Huntington, W. Va.*
Flanigan, Blanche, B.A.	*St. Louis, Mo.*
Fleischmann, Edna Marie	*Campbellsport*

Fleming, John Amos	*Helena, Mont.*
Fleming, Marguerite, B.A.	*Normal, Ill.*
Flemming, Lucinda Elizabeth, B.S.	*Madison*
Fletcher, Elizabeth Mary, B.A.	*Brooklyn*
Flom, Russell Craig	*Stoughton*
Flueck, Alice Anne	*La Crosse*
Flugum, Alexander Edson, B.A.	*Stoughton*
Fogarty, Catherine Isabel, B.A.	*Springfield, Ill.*
Foged, Charlotte Magdalen	*Clinton, Iowa*
Fogo, Frank E.	*Argyle*
Fogo, Ruby Mabel	*Argyle*
Folin, Hildur	*Chisago City, Minn.*
Follstad, Margaret Sophie a	*Elcho*
Foltz, Hazel Irene B.A.	*Wausau*
Ford, Mary Estelle	*Madison*
Forrester, Gertrude	*West Bend*
Forsythe, Irene Adele	*St. Louis, Mo.*
Foster, Nancy Caroline	*La Moille, Ill.*
Fox, Olive Grace	*Chicago, Ill.*
Fox, Walter Theodore	*Prairie du Sac*
Franciscus, James Madison	*St. Louis, Mo.*
Frankel, Arthur	*Chicago, Ill.*
Franklin, Henry Mya ls	*Chicago, Ill.*
Franseen, Clifford Carlton ls	*Frederic*
Franson Lydia Elizabeth	*Superior*
Fratt, Elizabeth Raymond	*Racine*
Frazier, Katherine	*Morganfield, Ky.*
Frazier, Milton Red	*Norwalk*
Fredrickson, Nina Belle	*Garden Prairie, Ill.*
Freeborn, Constance Margaret	*Fergus Falls, Minn.*
Freeling, Henry Philip	*Union Grove*
Freeman, Alice Elizabeth	*Saginaw, Mich.*
French, Catharine Elizabeth	*Monmouth, Ill.*
French, Florence Irene	*Normandy, Mo.*
French, Isabel Marshall	*Monmouth, Ill.*
Freund, Florence	*Fond du Lac*
Fricker, Will Henry	*Whitewater*
Friday Clara Augusta	*Oshkosh*
Friend, Eva Beryl	*Monon, Ind.*
Fries, Horace Snyder ls	*Richland Center*
Frink, Pearl Amelia	*St. Louis, Mo.*
Frisbee, Ethel Ruth	*Louisville, Ky.*
Froman, Della Plumb, B.A.	*Milton*
Fromm, Arno Henry ls	*Elkhart Lake*
Fronk, William James ls	*Madison*
Fruehauf, Louise Caroline	*Lakewood, Ohio*
Fry, Grace Leila	*Portsmouth, Ohio*
Fuge, Elsa Julia	*Columbus, Ohio*
Fuller, Henry Chester ls, l	*Whitewater*

Fuller, Ira ls	*Madison*
Fuller, Katharine ls	*Madison*
Fulton, Ellis Giles ls	*Toledo, Ohio*
Fulton, Margaret Mae	*Sacramento, Cal.*
Funkhouser, Agnes Gordon	*Plattsburg, Mo.*
Gaalaas, Pearl Luella	*Stillwater, Minn.*
Gaenslen, Meta Emily	*Milwaukee*
Gaetzman, Laparda Jean ls	*Wausau*
Gaffney, Grace Eleanor	*Milwaukee*
Gage, Irene Louise	*Artesia, N. Mex.*
Galle, Fred Leone ls	*Monroe*
Ganser, Herbert Aloysius ls	*Sauk City*
Gardner, Hannah Isabel	*Milwaukee*
Gardner, Katherine Winston	*Colorado Springs, Col.*
Gardner, Kenneth Stuart ls	*Kansas City, Mo.*
Gardner, Lloyd William	*River Falls*
Garfield, Blanche Allendena, B.A.	*Morgantown, W. Va.*
Garnich, Will, Jr. ls	*Ashland*
Garrigan, Marie Burnette	*Beloit*
Garrigues, Marie Irene	*Kansas City, Mo.*
Garrison, Inez	*Birmingham, Ala.*
Gaskell, Lilian Mary	*East Troy*
Gassmann, Walter Charles ls	*Madison*
Gaston, Elizabeth ls	*Madison*
Gates, Edith Mildred, B.A.	*Scranton, Pa.*
Gates, Elva Bernice	*Cassville*
Gates, William Lester	*Baraboo*
Gausewitz, Walter ls	*Madison*
Gautier, Harriet Babb	*Greencastle, Ind.*
Gaynor, William Patrick	*Houghton, Mich.*
Gehrand, Henry Christopher ls	*Madison*
Gehrke, Ruth Cecelia	*Menomonie*
Genskow, Harvey Melvin	*Oshkosh*
Geoghan, Kathleen Ellona	*Wisconsin Rapids*
Gerber, Bertha	*Great Falls, Mont.*
Gerberich, Myron Raymond e	*Aurora, Ill.*
Gerlach, Arthur John ls	*Milwaukee*
Gerlach, Mildred Elizabeth	*Milwaukee*
Gettle, Rollin Brown	*Madison*
Gibb, Chrissie Marion	*Amberg*
Gibbons, Gordon Robert	*Chicago, Ill.*
Gibson, Douglas N. ls, m	*Cumberland*
Gibson, Maida Sara	*Port Edwards*
Gibson, Rhea M.	*Sheboygan*
Giddings, Amy Natalie	*Galesburg, Ill.*
Giersbach, Walter Charles	*Milwaukee*
Giessel, Julius Edward	*Oregon*
Gilbert, Gretchen Louise ls	*Madison*
Giles, Ione	*Shullsburg*

Gill, Anna Dade, B.C.S.	*Morganfield, Ky.*
Gill, Corrington Calhoun	*Madison*
Gill, Julie Turnbull, M.A.	*Madison*
Gill, Ralph Gregory ls	*Madison*
Gilland, George Hobart, Jr. ls	*Cheyenne, Wyo.*
Gilmore, Elizabeth Basye ls	*Manila, P. I.*
Gilson, Elmer Franklin ls	*Shawano*
Girard, Lillian	*Southbridge, Mass.*
Gishpert, Ruth Elizabeth	*Randolph, Neb.*
Givan, Louise Creme	*Independence, Mo.*
Givin, Kate Marcella	*Loyal*
Glasier, Marshall Willis ls	*Madison*
Glass, Nathan H.	*Ahmeek, Mich.*
Gleason, Ida Agnes Frances	*New Richmond*
Gleason, Nell Katharine	*Stevens Point*
Glenn, Frances ls	*Chilton*
Glenz, Emma Louise, M.A.	*Madison*
Glover, Beatrice Elizabeth	*Ft. Wayne, Ind.*
Gobel, Reba Helen, B.A.	*Zaneville, Ohio*
Goddard, Dorothy Alice	*Madison*
Godfrey, Minnie Almeda, B.A.	*Walworth*
Goessling, Alfred C.	*Milwaukee*
Goessling, Hattie Bernadine	*Plymouth*
Goff, Cecile Mary	*Danville, Ill.*
Golden, Emily Sara	*So. Kaukauna*
Golden, Irene Agness	*So. Kaukauna*
Golden, Jane Beatrice	*Milwaukee*
Golden, Lucille Helen	*Chicago, Ill.*
Golden, Margaret Angela	*Kaukauna*
Gooden, Orville Thrasher, M.A.	*Conway, Ark.*
Gooder, Esther May	*Waterford*
Goodhart, Jacob	*Chicago, Ill.*
Goodland, Doris Martha, B.A.	*Oshkosh*
Goodnough, Ellen Lucinda	*Mt. Pleasant, Mich.*
Goodridge, Randolph	*Hartford, Conn.*
Gopadze, Illarion	*Madison*
Gordon, Elmer Henry	*Verona*
Gordon, Harriett McDermott	*Darlington*
Gordon–Smith, Jean	*Madison*
Gorlinski, Valentine Minnie, B.A.	*Salt Lake City, Utah*
Goss, Nellie	*Grand Rapids, Mich.*
Goss, William Thomas ls	*Chicago, Ill.*
Gottschalk, Louella Kathryn	*Napoleon, Ohio*
Goudie, Jean Hunter, B.A.	*Ironwood, Mich.*
Gourley, Marion Dorothy	*Milwaukee*
Gower, Ruth Frances, B.A.	*Chippewa Falls*
Grady, Lorna Voigt ls	*Watertown*
Graff, Marie Octavia, B.A.	*Nebraska City, Neb.*
Grammer, Mina Leone	*Raleigh, Tenn.*

Grant, Alicia Stuart ls	*Chicago, Ill.*
Grant, Avis Harriet	*Evanston, Ill.*
Grant, Lois	*Evanston, Ill.*
Graubman, Bertha Claire	*Chesterton, Ind.*
Gray, Ida Ellen ls	*Madison*
Gray, Lois Ruth	*Bristol*
Gray, Mattie M.	*New Lisbon*
Gray, Rodney J. ls, m	*De Forest*
Green, Dorothy Morelli, B.A.	*Pittsburgh, Pa.*
Green, Isabelle Margaret	*Jacksonville, Ill.*
Green, Minnie Hayward	*Evansville*
Green, Wallace Adolph	*Green Bay*
Greene, Gladys Elloleine	*Kansas City, Mo.*
Greene, Ona Brook, B.S.	*Sparta, Ky.*
Greening, Helen Kathleen, M.A.	*Los Angeles, Cal.*
Gregor, Judd Frederic, B.A.	*River Falls*
Gregor, Rienzi Victor	*Algoma*
Gregory, Olivia Susannah, B.O.	*St. Louis, Mo.*
Grenzow, Daisy Blossom	*Monroe*
Grenzow, William Henry	*Waupun*
Gresinger, Hamlin Lewis	*Cleveland, Ohio*
Gribble, Lelah L.	*Mineral Point*
Grieve, Florence Delaplain ls	*Madison*
Griffin, Jack	*Chickasha, Okla.*
Griffin, Nellie Magdalena	*Baraboo*
Griffin, Tella F. ls	*Albany*
Griffis, Florence J. ls	*Mt. Hope*
Griffith, Esther Rhoda ls	*Madison*
Griffiths, Mazie Gladys	*Clairton, Pa.*
Grimm, Alberta Louise	*Indianapolis, Ind.*
Grimm, Francis William ls	*Madison*
Grinnan, Andrew	*Richmond, Va.*
Grinsell, Helen	*St. Louis, Mo.*
Griswold, Calla Marion	*Dale*
Grombacher, Ruth Shepard	*North Olmstead, Ohio*
Gronlund, Anna Agusta	*Merrill*
Gronquist, Magnhild Theodora	*Chicago, Ill.*
Grossenbach, Marguerite Mildred	*Milwaukee*
Grossman, Harold, B.S.	*Hoboken, N. J.*
Groves, Aletha White	*Madison*
Groves, Cozette Aleene	*Holden, Mo.*
Groves, Mary Owings, B.A.	*Kosciusko, Miss.*
Gruner, Vera Gilda	*St. Louis, Mo.*
Gruninger, Harriet Margaret	*Cleveland, Ohio*
Guernsey, Fredrika Grace, M.A.	*Abingdon, Ill.*
Guhman, Maud Emma, B.A.	*St. Louis, Mo.*
Guild, Elliott William ls	*Des Moines, Iowa*
Gullord, Elizabeth Rosina ls	*Madison*
Gumm, M. Mildred ls	*Madison*

Gunawardena, D. P. Rupasengha ls	*Waga, Ceylon*
Gunderson, Coleman Guy	*Wautoma*
Gunderson, Lea, Ph.B.	*Madison*
Gunderson, Sigurd	*Mt. Horeb*
Gustin, Fred Ernest	*Hancock*
Gyland, Stephen P., B.A.	*Barron*
Haake, Maude Alberta	*Fillmore, Ill.*
Habercorn, E. Margaret	*St. Louis, Mo.*
Hackett, Fred Hamilton, B.S.	*Wakefield, Mich.*
Haebick, Kathryn A.	*La Crosse*
Haeger, Lucile Elizabeth	*Oak Park, Ill.*
Haertel, Gertrude Elizabeth	*Waukesha*
Hafemann, Harvey August	*Forestville*
Hagan, Helen Edith ls	*Dayton, Ohio*
Hagar, Wilma Navelia	*Harvard, Ill.*
Hager, John Allen ls	*Reedsburg*
Haggerty, Georgia Stanbridge	*Cleveland Heights, Ohio*
Hahn, Christine	*Dwight, Ill.*
Hahn, Emilie ls	*Chicago, Ill.*
Hahn, Juliet	*Milwaukee*
Haimbaugh, Ethel M.	*Rochester, Ind.*
Hainer, Eleanor Geussen	*Sheboygan*
Hall, Lauretta Margaret	*Chicago, Ill.*
Hall, Marjorie Lee	*Gary, Ind.*
Hall, Rachael Constance, B.A.	*Jacksonville, Ill.*
Hall, Sidney Storrs ls	*Milwaukee*
Hallauer, Esther Marie	*Kansas City, Mo.*
Hallinan, Virginia Drake	*Victoria, Tex.*
Hallis, Leretta Geneice, B.A.	*Cedar Falls, Iowa*
Hamata, Lillian Catherine	*Milwaukee*
Hamilton, Anne	*Mercer, Pa.*
Hamilton, Dorothy Mary	*Milwaukee*
Hamilton, Eleanor Baldwin	*Omaha, Neb.*
Hamilton, Mabel Delia	*Oshkosh*
Hamlin, Marie Ruth ls	*Ft. Scott, Kan.*
Hammer, Rolf Bernhard ls	*Galesville*
Hammerly, Fridalin ls	*Monticello*
Hammond, Fay Richards	*Kosciusko, Miss.*
Hampton, Alma Beatrice ls	*Bloomsburg, Pa.*
Hancock, Kathryn Elizabeth ls	*Madison*
Haney, Earl McKinley	*Crandon*
Haney, Gladys Julia	*Sparta*
Hank, Fannie Olive	*Holden, Mo.*
Hankey, Anna, B.A.	*Madison*
Hanley, Mildred Bernice ls	*Mt. Horeb*
Hanna, Helen Irene, M.A.	*Epworth, Iowa*
Hannan, Bernice Edythe, B.M.	*Milwaukee*
Hansen, Carrie Christine	*Hubbard, Neb.*
Hansen, Evelyn Grace	*Chicago, Ill.*

Hansen, Hersey	*Ashland*
Hansen, Libbie Ollette	*Green Bay*
Hansen, Matilda	*Kenosha*
Hansen, Thelma Harriet	*Milwaukee*
Hanson, Agnes	*Superior*
Hanson, Gertie Lulie ls	*Richland Center*
Hanson, Mabel Ellen	*Milwaukee*
Hanson, Mildred A. T. ls	*Rio*
Hardgrove, Maurice A. Francis ls	*Fond du Lac*
Hardigg, Ann Dorothy ls	*Evansville, Ind.*
Hardy, Cora W.	*Ettrick*
Hardy, Robert Carlisle	*New York, N. Y.*
Harker, William John ls	*Argyle*
Harlow, Edna Pearl	*Wichita, Kan.*
Harmon, Bess Adelia	*Brookston, Ind.*
Harnden, Emily C.	*Whitewater*
Harned, Josephine	*Bunceton, Mo.*
Harriman, Celia Jane ls	*Appleton*
Harrington, Delos James	*Elkhorn*
Harrington, Ella Bailey	*Grand Rapids, Mich.*
Harrison, Elizabeth, B.A.	*Madison*
Harrison, Harriet	*Duluth, Minn.*
Harrison, James Ruton ls	*Goshen, Ind*
Hart, Mabel Beth, B.S.	*Hillsboro*
Hartman, Jesse Brandyberry	*Sidney, Ohio*
Harvey, Kenneth Austin	*Wellesley Hills, Mass.*
Harvey, Oznie Clarvoe	*Mt. Vernon, Ill.*
Harvey, Ray Wallace	*Mt. Vernon, Ill.*
Harwood, Viola Georgia	*Devils Lake, N. D.*
Hasenjaeger, Ella	*Chicago, Ill.*
Haskell, Joyce Elizabeth	*Garden City, Kan.*
Hastings, Elvira Jane	*Madison*
Hastings, Marie, B.S.	*Flint, Mich.*
Hatch, Lehman Barnabas	*New Milford, Conn.*
Hatfield, Carson Arthur	*Sauk City*
Hathaway, Mary A.	*Kansas City, Mo.*
Hatmaker, Donald Burgoyne ls	*Chicago, Ill.*
Hauk, Helen Celia, B.A.	*Madison*
Hauptman, Evelyn	*Newark, N. J.*
Havelek, Rose Josephine	*Marinette*
Hawkins, Mary Elizabeth	*Bowling Green, Mo.*
Hawley, Albert George	*Madison*
Hawthorne, William Ralph, B.S.	*Warren, Ohio*
Haydon, Harriet Theresa	*Great Barrington, Mass.*
Hayes, Clement Mark	*Milwaukee*
Hayes, Ruth Mary	*Milwaukee*
Hays, Lida, B.S.	*Columbus, Ohio*
Heagney, Mary Isabelle	*Chicago, Ill.*
Healy, Orpha Eva	*Pardeeville*

Heath, Harold John ls, m	*Madison*
Hebenstreit, Kenneth Julian	*Shullsburg*
Herbert, Annette Catherine	*Fifield*
Hedges, LeRoy Ellis	*Chicago, Ill.*
Heffernan, Ann Marie	*Chicago, Ill.*
Heggestad, Roy Conrad	*Hollandale*
Hegness, O. Russell	*Willmar, Minn.*
Heineman, Ellis Richard ls	*Madison*
Heinsohn, Lorenzo	*Boyceville*
Heise, Cornelia Dorothea ls, l	*Madison*
Heise, Hugo Alfred	*Marathon*
Heizer, Edith Lillian	*Norwood, Ohio*
Helm, Ella Florence	*Webb City, Mo.*
Helm, Martha Lena	*Webb City, Mo.*
Helwich, Minnie A.	*La Crosse*
Hemenway, Robert Clark ls	*Carlsbad, N. Mex.*
Hemingway, James Rene ls	*Chicago, Ill.*
Hemingway, Roberta Mary	*Ionia, Mich.*
Henderson, Dewitt Talmage, B.A.	*Jackson Tenn.*
Henderson, Phoebe Ann	*Joliet, Ill.*
Henderson, Ruth Mildred	*Richmond, Ind.*
Hendra, Elmore Hutchison ls	*Madison*
Hendrickson, Joel Sedwin ls	*Madison*
Hendrickson, Ruth Alice	*Dodgeville*
Hendry, Chester Scoville ls	*Madison*
Hendry, Margaret Dodd	*Fond du Lac*
Henican, Easwell Ellis	*New Orleans, La.*
Henican, Joseph Patrick, Jr.	*New Orleans, La.*
Henika, Evangeline Cecelia	*Madison*
Hennessy, Maurice Nicholas	*Superior*
Henrikson, Esther Marie	*Kirkwood, Ill.*
Henry, Mary Muir	*Wonewoc*
Henry, Merlyn George ls	*Platteville*
Henry, Robert Allison, B.A.	*Macfarland*
Henry, Thelma Mae, B.A.	*Davenport, Iowa*
Hercher, John Daniel	*Milwaukee*
Herdrch, Erma Rosetta	*Greenwood*
Herriford, Margie Pearl, B.A.	*Wichita, Kan.*
Herring, Leone Beatrice	*Allerton, Iowa*
Herrman, Roy Frederick ls, m	*Sparta*
Hertzberg, Eleanor Shearer	*Cedar Falls, Iowa*
Hessing, Hazel P.	*Sun Prairie*
Heyroth, Melvin Howard	*Two Rivers*
Hickok, Katharine Cramer	*Madison*
Hickey Pauline Gerling	*Covington, Ky.*
Hickok, Ward Romayne	*Madison*
Hicks, Charles Henry ls	*Madison*
Hicks, Ethel V.	*Sheboygan*
Hicok, Alice R.	*Hancock, Mich.*

Higgins, Joseph J. ls	*Aurora, Ill.*
Higgitt, Violet Lorraine ls	*Milwaukee*
Hiles, Mary Alice	*Rock Island, Ill.*
Hill, Lydia Alice	*Lake Geneva*
Hillel, Sarah Charlotte	*E. Chicago, Ind.*
Hindes, Hubert J. ls, m	*Ablemans*
Hineline, Harris Dale	*Pittsburgh, Pa.*
Hintze, Anna Laura ls	*St. Louis, Mo.*
Hipke, Malcolm Maynard ls, m	*Milwaukee*
Hipple, Frances Wardlow ls, m	*Madison*
Hirschfeld, Angelia	*Chicago, Ill.*
Hirsig, Mildred Elizabeth	*Madison*
Hirsig, Pearl Theodosia g	*Madison*
Hirt, Helen Barbara	*Detroit, Mich.*
Hitz, Vajen Eileen	*Indianapolis, Ind.*
Hjelvik, Ingeborg	*Merrill*
Hlinak, Edward Joseph ls	*Maribel*
Hoag, Harold Brown	*La Grange, Ill.*
Hobbs, Virginia Adelaide	*Norwood, Ohio*
Hocking, Bert Whitman, B.A.	*Rockford, Ill.*
Hocking, Elton Capper ls	*Rockford, Ill.*
Hocking, George Drew ls	*Waupaca*
Hodsdon, Frances Mildred, B.A.	*Mellen*
Hoelzel, Philipp Henry ls	*Watertown*
Hoenig, Clara Thurow ls	*Madison*
Hoffman, Arthur Louis	*Milwaukee*
Hoffman, Martha L.	*Dubuque, Iowa*
Hoffman, William Edward	*Lyndhurst*
Hogan, Mildred Elsie	*Madison*
Hoge, Verne Blankinship	*Washington, D. C.*
Hoge, William McGuffey, M.A.	*Culver, Ind.*
Hogle, Charles Allen, B.S.	*Newton, Iowa*
Hoidahl, Theodore Helfred, B.A.	*Stanley*
Hoiles, Alice Virginia	*Greenville, Ill.*
Hoiles, Elizabeth Louise	*Greenville, Ill.*
Hoiles, Juliette White	*Greenville, Ill.*
Holcombe, Ray Edward	*Manhattan, Kan.*
Holcombe, Robert Lyndon	*Madison*
Holford, Frances Elizabeth g	*Cassville*
Hollem, Ruth Marie	*Rockford, Ill.*
Hollenbeck, Alexander Doty	*Lincoln, Neb.*
Holscher, Frank Charles ls	*McFarland*
Holt, Ethel M., B.A.	*Cambridge*
Holt, Jane Sylvia	*Chicago, Ill.*
Holzman, John Henry	*North Freedom*
Honigsberg, Abraham	*Brooklyn, N. Y.*
Hood, Marion Winifred, B.A.	*Blunt, S. D.*
Hook, Verla R.	*Norborne, Mo.*
Hooks, Zola Irene	*Lucy, Tenn.*

Hooper, Abbie Elizabeth	*Lake Mills*
Hooper, Florence Amanda	*Lake Mills*
Hopkins, Bert E. ls, l	*Centuria*
Hopkins, Liona M.	*Wesley, Iowa*
Hopkins, Mary Elizabeth, B.A.	*Kansas City, Mo.*
Hopkins, Viola E. B., Ph.B.	*Madison*
Hopp, Edna Rose	*Cleveland, Ohio*
Hoppenyan, Margaret Mary	*Ashland*
Hopper, Loretta Philomenia	*Chicago, Ill.*
Horan, Richard Sylvester	*Schofield*
Horn, Minnie Adeline	*Brooklyn, N. Y.*
Horn, Mary Aitken, M.A.	*Barron*
Hornback, John Jacob ls	*Huntington, Ind.*
Hornor, Alfrede Lindley, M.A.	*Wichita, Kan.*
Horstmeyer, Edward William	*Madison*
Hosoya, Toshi	*Tokio, Japan*
Householder, Helen Frances a	*La Farge*
Housel, John Ward	*Ramsey, Ind.*
Houston, Walter Charles	*Milwaukee*
Hoveland, Bertha Elvira, B.A.	*Zumbrota, Minn.*
Howard, Albert Marshall	*Chicago, Ill.*
Howard, Ben Henderson	*Jackson, Mo.*
Howell, Anna	*Milwaukee*
Howl, Agness Dare, B.A.	*Rensselaer, Ind.*
Hoyer, John William, B.S.	*Ackley, Iowa*
Hoyt, Edith Evans, M.A.	*Madison*
Hsu, Jen-Chieh	*Honan, China*
Hsu, Stanley Chitsen ls	*Shanghai, China*
Hu, Kwang Cheng	*Tientsin, China*
Huang, Tzu-Ching ls	*Swatow, China*
Hubbard, Dorothy Rowe, B.A.	*Madison*
Hubbard, Warren Sydney	*Shabbona, Ill.*
Huber, Marie Miriam	*Milwaukee*
Huck, Catherine Ursula, B.S.	*Ste. Genevieve, Mo.*
Huck, Francis Fisher	*Ste. Genevieve, Mo.*
Huff, Clifford Irving ls	*Randolph*
Hughes, Frances Willard	*Janesville*
Hughes, Helen Gladys	*Washington, D. C.*
Humble, Eugenia Alice	*Decatur, Ill.*
Humphrey, Helen Elizabeth	*Baxter Springs, Kan.*
Hunt, Anne Parker	*Peoria, Ill.*
Hunt, Gladdis May, B.A.	*Oskaloosa, Iowa*
Hunt, Helen Margaret ls	*Madison*
Hunt, Lawrence Edward ls	*Sulphur Springs, Ind.*
Hunter, Marion Elizabeth	*Chicago, Ill.*
Huntington, Gertrude Mildred ls	*Platteville*
Hupprich, Mabel ls	*Madison*
Hurless, Laurel Brown	*Chicago, Ill.*
Hurley, Ethel Marie	*Chicago, Ill.*

Hurst, Helen J.	*Columbus, Ohio*
Hurst, Ruby Esther	*Chetek*
Husted, Jeannette Kearsley	*Chicago, Ill.*
Hutchens, Helena Fuller	*Missoula, Mont.*
Hutcheson, Elizabeth Sloan	*Merriam, Kan.*
Hutchison, Mary Hamilton, M.A.	*Toledo, Ohio*
Hyatt, Marion Estelle	*Cleveland, Ohio*
Hyde, Helen Hovey, B.A.	*Baltimore, Md.*
Hyde, Maurice E.	*La Porte, Ind.*
Ichimura, Kesazo, B.A.	*Nagano, Japan*
Ikerman, Joseph Alexander	*Selma, Ala.*
Ikmayan, Alfred Nicholas	*Charleston, Ill.*
Iliff, Mary Davidson	*Crawfordsville, Ind.*
Ingebritsen, Henry Percival ls	*Madison*
Ingram, Homer Glenn	*Kewanee, Ill.*
Irish, Josephine	*Quincy, Ill.*
Irwin, Robert Steele	*Lodi*
Iwen, Wilbert Paul ls	*Shawano*
Iype, Achy	*Thienvella, India*
Jacka, Laura Alice	*Mineral Point*
Jackman, Willmarth L. ls	*Madison*
Jackson, Ben Frank ls	*Milwaukee*
Jackson, Beula St. Claire	*Ovid, Mich.*
Jackson, Mildred	*Grand Rapids, Mich.*
Jackson, Nelle Jane	*Lebanon, Ind.*
Jacobs, Carol Joyce	*Fontanelle, Iowa*
Jacobsen, Clara Lenore ls	*Madison*
Jacobson, Edna Louise ls	*Madison*
Jacobson, Sidney Spencer	*Curtis*
James, Esther Margaretta	*Johnstown, Pa.*
James, Getta Marie	*Clinton, Ind.*
Jamieson, Frances Marguerite, B.A.	*Shullsburg*
Jamieson, Lucy ls	*Poynette*
Jantsch, Joseph	*Dorchester*
Jenck, Nellie Margaret ls	*Mineral Point*
Jenkinson, David Lester ls, m	*Minocqua*
Jennings, Lillian Bruce	*Cleveland, N. D.*
Jenske, Lucine Mary	*Wisconsin Rapids*
Jensen, Myrtle Elanore	*Wild Rose*
Jerdee, Theodore Oswald	*Stoughton*
Jilbert, Edwin Homer	*Harvey, Ill.*
John, Eugene Allen	*Seattle, Wash.*
John, Estella M.	*Hudson*
Johns, Elsie	*Randolph*
Johnson, Alice May, B.A.	*New Richmond, Minn.*
Johnson, Ann	*Platteville*
Johnson, Anna Emily	*Stanley*
Johnson, Carl Emanuel	*Eau Claire*
Johnson, Evelyn Cleone	*Capron, Ill.*

Johnson, Frederick Wall ls	*Rockford, Ill.*
Johnson, Grace Crawford ls	*Madison*
Johnson, Ione Margaret ls	*Madison*
Johnson, Loma L. ls	*Madison*
Johnson, Lucille M. ls	*Lemont, Ill.*
Johnson, Mabel Matilda	*Grand Rapids, Mich.*
Johnson, Marian Stewart	*Wyandotte, Mich.*
Johnson, Marth Julia	*Antigo*
Johnson, Maurice Lee ls	*Chicago, Ill.*
Johnson, Mildred Ava	*Almond*
Johnson, Miriam	*Winnetka, Ill.*
Johnson, Nelson Harold, B.A.	*Caledonia*
Johnson, Villa Marie	*Rockford, Ill.*
Johnson, Wesley Albert, B.A.	*Pecatonica, Ill.*
Johnson, Winfred Foote, B.A.	*Kewanee, Ill.*
Jones, Anita Margaret ls	*Spring Green*
Jones, Catherine May	*Breckinridge, Minn.*
Jones, David Leslie	*Chicago, Ill.*
Jones, Donald Hugh ls	*Sioux Falls, S. D.*
Jones. Erma Cecelia	*Rockton, Ill.*
Jones, Ernest Lee	*Elyria, Ohio*
Jones, George Edward	*Plainfield*
Jones, Grace Elizabeth	*Ebensburg, Pa.*
Jones, Helen Holley	*Cleveland, Ohio*
Jones, Kathryn Margaret	*Milwaukee*
Jones, Lorraine Josephine	*Sparta*
Jones, Lydia Mary	*Pickett*
Jones, Mary Fortney	*Chanute, Kan.*
Jones, Polly Sue	*Kosciusko, Miss.*
Jones, Ruth Elinor	*Pewaukee*
Jones, Ruth Harriet	*Madison*
Jones, Truman Nathaniel, M.A.	*Moline, Ill.*
Jorgenson, Helen Ingabor	*Hayward*
Joyce, Ella Alma	*Milwaukee*
Judd, Nellie, B.A.	*St. Louis, Mo.*
Judson, Ruth Clara	*Cleveland Heights, Ohio*
Julsrud, Kenneth Nash, B.A.	*Rushford, Minn.*
Jungck, Frederick William Ph.B	*Menomonie*
Junk, Rhoda Elizabeth	*Ogden, Utah*
Juster, Eugene Meyer, B.S.	*Madison*
Kaems, Milton Albert	*Sheboygan*
Kahoun, Joseph Rudolph	*Pittsville*
Kamin, Harry William	*Pittsburgh, Pa.*
Kamin, Sara Katz	*Milwaukee*
Kaminski, Theodore John	*Chicago, Ill.*
Kammermann, Hermina, B.A.	*Forrest, Ill.*
Kandel, Ernestine Veronica ls	*Oconto*
Kannenberg, Alice Margaret	*Detroit, Mich.*
Kanneberg, Louise ls	*Madison*

Kant, Edna Marie	*Watertown*
Kantor, Jennie ls, m	*Beloit*
Kao, Chung-Hsi ls	*Peking, China*
Kapp, Edgar Benjamin	*Milwaukee*
Kasson, Merritt Theron ls	*Laona*
Katz, George ls	*New Glarus*
Katz, Meyer Ralph ls	*New Glarus*
Katz, Mildred	*Milwaukee*
Kauffman, Janice Meredith	*Princeton, Mo.*
Kaump, Ethel Amelia	*Platteville*
Kaye, Neva ls	*New York, N. Y.*
Kayser, Lydia Catherine	*Buffalo, N. Y.*
Keaton, Pauline Annie	*Milan, Tenn.*
Keen, Ruby Aurelia	*Keenes, Ill.*
Kelhofer, Alma Elizabeth	*Madison*
Kelhofer, Bertha Ernestine a	*Madison*
Keller, Clara Frederica, B.A.	*Jeffersonville, Ind.*
Keller, Leslie George ls	*Milwaukee*
Keller, Martha Margaret ls	*Madison*
Kellman, Forrest Thompson	*Galesville*
Kellogg, Elizabeth Ann	*Merrill*
Kellogg, Florence Agnes	*Edgerton*
Kellogg, Grace Hopkins ls	*Milwaukee*
Kelly, Curtis Hartt	*Ft. Atkinson*
Kelly, Murva Rowena	*Dubuque, Iowa*
Kennedy, Elizabeth, B. A.	*Milwaukee*
Kennedy, Elizabeth Van De Water	*Dayton, Ohio*
Kennedy, Mayme Catherine	*Rib Lake*
Kennedy, Nan Chowning	*Dayton, Ohio*
Kenney, Catherine E. ls	*Madison*
Kenney, Zola	*Tiskilwa, Ill.*
Kerr, Georgiana M. ls	*Green Bay*
Kerr, Hattie Marie	*Kansas City, Mo.*
Kerr, Howard B. ls	*Chicago, Ill.*
Kerr Margaret Elizabeth	*Detroit, Mich.*
Kersten, Luella	*Hartford*
Kessenich, Herman Frank ls	*Madison*
Kettleson, Luella Constance, B.A.	*Spirit Lake, Iowa*
Kibler, Alta Hannah, B.A.	*Kearney, Neb.*
Kibler, Augusta May, B.A.	*Kearney, Neb.*
Kiger, Jennie Marie	*Burlington, Kan.*
Kihn, Gwendolyn Marjorie ls	*Park Falls*
Kindow, Fred Leslie	*Whitewater*
Kilgore, Cecil, B.A.	*Guthrie Center, Iowa*
Kimm, Adele A., B.A.	*Blairstown, Iowa*
Kimpton, Marjorie Ethel	*Chicago, Ill.*
Kindley, Lillian Marie	*La Crosse*
King, Annie Stevens	*St. Louis, Mo.*
King, Corinne Catherine ls	*Mazonmanie*

King, Eunice Marguerite	*Rockford, Ill.*
King, Frederick Dean	*Albion, Mich.*
King, Harriet Augusta ls	*Madison*
King, Louise Albertine	*Columbus*
King, Roberta Irene	*Charleston, Ill.*
Kingsley, Anna Mary	*Jacksonville, Ill.*
Kingsley, Zelda Martha	*Three Rivers, Mich.*
Kinison, Charles Richard	*Rosemond, Ill.*
Kinman, Mable Elizabeth	*Pleasant Hill, Mo.*
Kinsley, Lucy Lucretia	*McGregor, Iowa*
Kionka, Paul Frederick	*Melrose Park, Ill.*
Kirby, Warren L., B.S.	*Hull, Ill.*
Kirchner, Willard Florin	*Fountain City*
Kirkham, Ethel Helen	*Terre Haute, Ind.*
Kirscher, Galen Paul	*River Falls*
Kispert, Katherine Ida	*Jefferson*
Kitowski, John Edward	*Berlin*
Klein, Anna	*Ripon*
Klein, Margaret V. ls	*Ft. Atkinson*
Kleist, Emmy	*Milwaukee*
Klear, Joseph Henry ls	*Black River Falls*
Kletzien, Helmuth ls	*New Holstein*
Klingman, John Wesley	*Menomonie*
Klontz, Vera Vesta	*Freeport, Ill.*
Klosterman, Clara Flora ls	*Shawano*
Knapp, Lettie, B.A.	*St. Joseph, Mo.*
Knapp, Melnice Ida, B.S.	*St. Joseph, Mo.*
Kneer Carsten Frederic ls	*Eau Claire*
Kney, Mary Andrea ls	*Madion*
Knight, Jeanne Marshall	*Cleveland Heights, Ohio*
Knippel, Susan Jane ls	*Milwaukee*
Knobloch, Ruth	*Eau Claire*
Knocke, Lydia Henriette	*Sheboygan*
Knudson, Thelma Agnes	*New Sharon, Iowa*
Knutzen, Norman Elroy	*Stambaugh, Mich.*
Kober, Kenneth ls	*Janesville*
Koch, Elenora Margaret	*Milwaukee*
Koch, Elsie Pauline ls	*Mt. Horeb*
Koenig, Esther Otelia ls	*Sioux Falls, S. D.*
Koepcke, Gerald Meinhardt ls, m	*Madison*
Koetzli, Dorothy Harriet	*St. Louis, Mo.*
Kohlkepp, Orvilla W.	*Eau Claire*
Kojis, Ferdinand George ls, m	*Milwaukee*
Kolicek, Marie Marcella ls	*Mishicot*
Koltes, Raymond John	*Dane*
Kopplin, Julius August	*Fall Creek*
Korfmacher, Raymond Frederick ls	*Madison*
Kossoris, Max ls	*Milwaukee*
Krakow, Esther Marie	*Deerfield*

Kramer, Emily J. ls	*Butte, Mont.*
Kramer, Mildred Hazel ls	*Madison*
Kramer, Sophia Anna	*Pewaukee*
Kranert, Isabelle Margaret ls	*McGregor, Iowa*
Kratz, Paul Vernon	*Louisville, Ky.*
Krause, Ida Fredericka	*Wausau*
Krebaum, Katherine Irma	*Virden, Ill.*
Krenz, Edward Arthur	*Oshkosh*
Kreutz, Bessie Barnum	*Madison*
Kriz, George Alan ls, m	*Milwaukee*
Kroge, Louise Henrietta	*Kansas City, Mo.*
Krohn, Lillian Lydia	*Marinette*
Krueger, Bruno Herman	*Tomah*
Kruger, Charlotte Louise	*Gary, Ind.*
Krumheuer, Ila Leora	*Grand Rapids, Mich.*
Krumheuer, Ina Merora	*Grand Rapids, Mich.*
Kube, Marian Margaret	*Galesville*
Kuebler, Walter Leroy	*Viroqua*
Kuechle, Louise Lydia	*Sheboygan*
Kuehner, Herman William	*Cedarburg*
Kuhlman, Hazel D.	*Alma, Mich.*
Kuhtz, Esther Freda	*Waukesha*
Kunz, Mildred Therese	*Cleveland, Ohio*
Kurkowski, Sophelia Mary	*Amherst*
Kutz, Margaret Cary	*Walworth*
Kutz, Russell Merrill	*Walworth*
Kyes, Neenah Almeda, B.S.	*Lansing, Mich.*
Kyle, Eva	*Ft. Atkinson*
Lablanche, Reine	*Madison*
Labowitch, Helene Dorothy ls	*Chicago, Ill.*
La Budde, Frank Rein	*Glenbeulah*
Lacy, Mabel Vivien	*Madison*
Lade, Jennie Marie	*Polar*
Le Flex, Le Noir Violetta	*Wauwatosa*
Lager, Mildred	*Superior*
Laitala, Eino Matthew	*Ely, Minn.*
Lamb, Dorothy Damon, B.A.	*St. Louis, Mo.*
Lamb, Ira	*Bennet, Neb.*
Lamb, Theodore Warren	*Hinsdale, Ill.*
Lamoreaux, Edison Simon	*Janesville*
Lampert, Loretta Jeanne	*Garden Prairie, Ill.*
Lampman, Harry Gordon	*Avoca*
Landa, Julio ls, m	*Lima, Peru, S. A.*
Landfield, Joseph David	*Chicago, Ill.*
Lane, Gladys Amy	*Phillips*
Lang, Edgar Franklin ls	*Jefferson*
Langford, Helen ls	*Portage*
Langford, Sydney Morton	*Lexington, Mo.*
Langford, Vick Lorraine	*Portage*

Lani, Peter ls	*Madison*
Lansworth, Vivian Carolyn ls	*Ogema*
Lappin, Agnes Maude	*Detroit, Mich.*
Lappley, Ieona Alma	*Mazomanie*
Lappley, Linda Hertha	*Madison*
Lappley, Melva H.	*Madison*
Lappley, Vera Laura ls	*Madison*
Larkin, Della A.	*Brodhead*
Larkin, Irene Audrey	*Marshfield*
Larkin, James Hazel	*Whitewater*
Larson, Ann Louise	*Merrill*
Larson, Dale Marie	*Eau Claire*
Larson, Elva	*Plymouth*
Lasley, Lois Mary	*Kansas City, Mo.*
Lathrop, Mary Ellinor, B.A.	*Madison*
Latta, Earl Thurman	*St. Louis, Mo.*
Lattau, Millie	*Youngstown, Ohio*
Laughlin, Evelyn Eleanor	*Antigo*
Laughlin, Regina Mary	*Mattoon, Ill.*
Laut, Charles Robert	*Schofield*
Lawhead, James Beard	*Torrington, Wyo.*
Lawrence, Hans Will g, m	*Madison*
Lawson, Edith Wilhelmina	*Rockford, Ill.*
Lawson, May Genevieve	*Rockford, Ill.*
Leake, Russell	*Madison*
Leaming, Marjorie	*Highland Park, Ill.*
Lean, Margaret Helen	*Whitewater*
Leard, Margaret	*Milwaukee*
Leavitt, Hazel Anne	*Rhinelander*
Leavitt, Ned Harrison ls	*Sioux Falls, S. D.*
Ledvinka, Ruth	*Oak Park, Ill.*
Lee, Donald Khun Giok	*Formosa, Japan*
Lee, Vera K. ls	*Eveleth, Minn.*
Leean, La Roy Melvin	*Scandinavia*
Leeming, Blanche	*Bay City, Mich.*
Lehman, Jane Schrumpf	*Plymouth*
Leib, Benjamin Wiley	*Anna, Ill.*
Leichhardt, Nelle Dora, B.A.	*Wichita, Kan.*
Leirich, John Albert	*Madison*
Leiser, Else ls	*Milwaukee*
Leishman, A. Irwin	*Whitewater*
Leith, Edna Jane	*Fond du Lac*
Leitzell, Muriel Jane ls	*Benton*
Lemcke, Lydia Elizabeth	*Middelton*
Lemisiano, Bettina	*Orange, N. J.*
Lemke, Arthur Carl	*Cadott*
Lemke, Norma	*Cadott*
Lengyel, Irma	*Madison*
Lenicheck, Frank Adolph ls	*Milwaukee*

Leonard, Margaret Agnes	*Chicago, Ill.*
Leppla, Glenn C. ls	*Prairie du. Sac*
Lettenberger, Marian	*Milwaukee*
Le Veille, Allyn Louis	*Ladysmith*
Levin, Harry Maurice	*Chicago, Ill.*
Lewallen, Jennie Sisson	*St. Elmo, Tenn.*
Lewis, Bertha Barbara	*Grand Rapids, Mich.*
Lewis, Carl Cecil a	*Camp Point, Ill.*
Lewis, Frances Alice ls	*Madison*
Lewis, Jeanette	*Rockford, Ill.*
Lewis, Lillian Andrene, B.A.	*Cleveland, Ohio*
Lewis, Lillian Lucille, B.A.	*Macfarland*
Lewis, Mae	*Pasadena, Cal.*
Lewis, Wilford Carl, M.A.	*East Lansing, Mich.*
Ley, Anna Lydia	*De Pere*
Leyda, Newton Edwin	*Chicago, Ill.*
Li, Elizabeth Kang Sang	*Honolulu, Hawaii*
Libby, Catherine Hildenbrandt	*Nakoma*
Liddy, Alma	*Grand Rapids, Mich.*
Lieberman, Ben ls, m	*Milwaukee*
Liedholm, Sarah Wocasek	*Great Falls, Mont.*
Lien, Marvin Tilman ls	*Blanchardville*
Lienhard, John	*Elkhart Lake*
Liesveld, Esther Marie	*Grand Rapids, Mich.*
Limberg, Wayne ls	*Plymouth*
Liljeberg, Naomi	*Lake City, Minn.*
Lind, Aleen Marie	*Rockford, Ill.*
Lind, Marjorie Ruth	*Hillsboro*
Lind, Nita Marion	*Hillsboro*
Lindeman, Lenore Alice	*Detroit, Mich.*
Lindeman, Ann	*Aplington, Iowa*
Linden, Bertha May	*South Bend, Ind.*
Lindley, Lynnette ls	*Madison*
Lindow, Frances Augusta	*Lake Geneva*
Liner, Mabel Margaret	*Brandon*
Lingenfelder, Doris Amy ls	*Rosebud, Mo.*
Lingenfelter, Lois Myra, B.A.	*Fredonia, Kan.*
Lins, Beatrice Martha ls, m	*Spring Green*
Lipman, William Harrison	*Antigo*
Little, Mary Owen	*Peshtigo*
Livesay, Clare Wilma, B.C.S.	*Bristol, Tenn.*
Livingston, Lois Barber ls	*Madison*
Lloyd, Yolande	*Morrisonville, Ill.*
Loan, Ruth	*Shawano*
Lobraico, Ida	*Indianapolis, Ind.*
Loescher, George A., B.A.	*Oshkosh*
Lohmann, Melanie	*Sheboygan*
Lohmann, Vera Gertrude, B.A.	*Decatur, Ill.*
Lomax, Gladys	*St. Joseph, Mo.*

Lomax, Muriel Margaret	*St. Joseph, Mo.*
Londeen, Bertha Gustava	*Chicago, Ill.*
Long, Helen Mary	*Kansas City, Mo.*
Longfield, Charles Samuel ls	*Madison*
Longfield, Joseph John ls	*Madison*
Lorenz, Charles	*St. Louis, Mo.*
Losey, Virginia Gertrude	*Milwaukee*
Lounsbury, Harry Edward ls	*Madison*
Lovak, Elsie Rosemary	*Chicago, Ill.*
Love, Ruth O. ls	*Madison*
Loveless, Marie Helen	*Elroy*
Lowe, Margaret Stella ls	*Neillsville*
Lowe, Ruth Parker	*Moline, Ill.*
Loy, Susanne	*Stitzer*
Luck, Isabel g	*Ripon*
Ludwig, Ernest Frederick	*Manitowoc*
Luecker, Ralph Frederick ls	*Brillion*
Lundberg, Rose Marie	*Kirkland, Ill.*
Lundgren, Warren Williams	*Burlington, Iowa*
Lundquist, Esther Beatha	*Chicago, Ill.*
Lundquist, Ruth E.	*Chicago, Ill.*
Lundt, Milo Oswald ls	*Madison*
Lunseth, Agnes	*Superior*
Luraas, Ames Burnette	*Madison*
Lycan, Lydia Belle	*Indianapolis, Ind.*
Lyford, Aimee Eugenie	*Elgin, Ill.*
Lyman, Howard Bertram ls	*Madison*
Lyon, Clair Morene	*De Kalb, Ill.*
Lyon, Prudence Yates	*Campbellsport, Ky.*
Lyons, Charlotte	*Brodhead*
McCaffrey, Erma Brandt	*Beloit*
McCarthy, Mary Bernice ls	*Eden*
McCarthy, Mary Cecilia	*Tacoma, Wash.*
McClelan, Mary Ella	*Minneapolis, Minn.*
McClelland, Harold Edward	*Rice Lake*
McClintock, Wayne Burr	*Marquette, Mich*
McClure, Frank James, B.S.	*W. Lafayette, Ind.*
McClure, George Sinclair	*Webster Groves, Mo.*
McClymont, Jessie Clay	*Milwaukee*
McComb, Beulah Howard	*Lima Center*
McComb, Mary Jane	*Oshkosh*
McConathy, Alice Mary	*Evanston, Ill.*
McConnell, Richard Jack	*Windsor, Ontario, Canada*
McConochie, Florence, B.S.	*Rock Island, Ill.*
McCorison, Joseph Lyle, Jr., B.A.	*Ladysmith*
McCorkle, Anna Leigh, B.A.	*Raines, Tenn.*
McCormic, Frances Meryl	*Sharon, Pa.*
McCormick, Ethel Helen	*Madison*
McCormick, Helen Margaret	*Watertown*

McCormick, James William, B.A.	*Madison*
McCoy, Elizabeth Rose	*Springfield, Ill.*
McCoy, Josephine A. ls	*Springfield, Ill.*
McCreery, Walter Gay	*Marshalltown, Iowa*
McCrum, Jean, B.S.	*Aspinwall, Pa.*
McCubbin, Robert John ls	*Milton Junction*
McCue, Margaret Mary	*St. Louis, Mo.*
McDermott, Donald Francis	*Seattle, Wash.*
McDermott, Ellen Rose	*New Richmond*
McDermott, Mary, M.A.	*Bolivar, N. Y.*
McDonald, Edward Michael, B.A.	*Beaver Dam*
McDonald, Elizabeth Pauline ls	*South Wayne*
McDonald, John Edwin ls, m	*Madison*
MacDonald, Katherine Elizabeth ls	*Lake Geneva*
McDonald, Louise	*Indianapolis, Ind.*
McDonald, Mabel Helen ls	*Madison*
MacDonald, Mary Celia	*Tomahawk*
MacDonald, Robert Paul	*Madison*
McDonald, Sarah Barbara	*Poynette*
MacDonald, Vilena Kathryn	*Flint, Mich.*
McDonnell, Eugenia	*Cascade*
McElroy, Floyd Bernard ls	*Madison*
McElwee, Charlene Clarkson g	*Juda*
McEwen, Anne Grant	*Duluth, Minn.*
McEwen, Merrill Clyde	*Potsdam, N. Y.*
McFarlane, Joan	*Delavan*
McGary, Lester, B.S.	*Norwalk*
McGillivray, Margaret	*Oscoda, Mich.*
McGinnis, Mildred Agatha	*St. Louis, Mo.*
McGlone, Ava Cecilia	*Whitehouse, Ohio*
McGlynn, Thomas Joseph	*Owen*
MacGregor, Donald Alexander	*Westfield*
MacGregory, Helen, B.A.	*Cass City, Mich.*
McGuinn, Nellie	*Kansas City, Kan.*
McHugh, Clifford Joseph	*Chilton*
McIlquham, Elizabeth Jane	*Madison*
McIlquham, Victoria M.	*Madison*
McIntyre, Elbridge Albert	*Mendota, Ill.*
McKamy, Raymond Leonard, B.A.	*Galesburg, Ill.*
McKay, Louise Jane	*Oak Park, Ill.*
McKeith, Jessie Robertson	*Milwaukee*
McKenna, Eleanor Lindsay	*Philadelphia, Pa.*
McKenna, Margaret Alice	*Springfield, Mo..*
McKenna, Mary Teresa, B.S.	*Springfield, Mo..*
McKenzie, Frederic Pitts	*Pawtucket, R. I.*
McKeown, Alice Jean	*Hubbard Woods, Ill.*
McKibbin, Dora Belle	*Belleville*
McKinley, Edwin Daniel	*Dodgeville*
McKinnie, Alice	*Colorado Springs, Col.*

McKivett, Charles Christianson ls	*Racine*
McKnight, Neil Allison, B.S.	*Hanna City, Ill.*
MacLachlan, Fergus Greenham	*Elmwood*
MacLachlan, Margery Jean	*Macfarland*
McLain, Ernest Karl	*Wellsville, Kan.*
McLaughlin, Gladys Irene	*Alpha, Ill.*
McLellan, Wanda Elizabeth	*Granite City, Ill.*
McLoney, James Fred ls	*Wilmette, Ill.*
McLouth, Mildred Eudora	*Cleveland, Ohio*
McMenemy, Mary Etta, B.A.	*Manchester, Conn.*
McMillan, Isabel, Ph.B.	*Omaha, Neb.*
MacMillan, Jessie Irene ls	*Elroy*
McMurry, Harry Lee	*Bloomington, Ill.*
McMurry, Helen Hiett ls	*Madison*
McNally, Honor Constance	*New Richmond*
McNamara, Loretta Margaret	*Superior*
McNulty, Mildred Dolores	*Cleveland, Ohio*
MacQueen, May P.	*Lena*
MacRae, Margaret	*Superior*
McReynolds, Pearl	*Kingman, Kan.*
Maas, Garnett Ida	*Rockford, Ill.*
Maas, Martha Bertha	*Watertown*
Maas, William George ls	*Negaunee, Mich.*
Mabee, Ruth	*Los Angeles, Cal.*
Mackay, Florella Lowry, B.A.	*Detroit, Mich.*
Mackmiller, Dorothea	*Ashland*
Mackmiller, George Gilbert ls	*Ashland*
Mackmiller, Martha Johanna	*Schofield*
Madden, Mable Catherine	*Janesville*
Maddock, Elizabeth Ellen ls	*Alton, Ill.*
Madick, Ethel Marcella	*Kansas City, Mo.*
Madison, Janet Luella	*Cleveland, Ohio*
Madsen, Mars Laurice	*Viborg, S. D.*
Magnuson, Gordon Edward ls	*Elkhart, Ind.*
Magnusson, John Peter, Ph.D.	*Rock Island, Ill.*
Maher, Mary Cecelia	*Green Bay*
Mahoney, Sara Evelyn	*Superior*
Mahony, Ellen Lucile, B.A.	*Fostoria, Ohio*
Mahorney, Elizabeth Morgan ls	*Madison*
Mahorney, Florence ls	*Madison*
Maldaner, Henry	*Watertown*
Mallory, Louis Arthur ls	*Milwaukee*
Malott, Grace ls	*Detroit, Mich.*
Malsin, Arthur Charles ls	*Merrill*
Manchester, Morgan Everesz	*Madison*
Mandler, Bertha Clara	*Bloomington, Ill.*
Mann, John Paris, B.A.	*Oshkosh*
Manns, Edward Albert ls	*Oconomowoc*
Mapes, Paul Edwin	*Joliet, Ill.*

Marine, Fay	*Toledo, Ohio*
Mark, Bernice M. ls	*Kenosha*
Markwell, Ethel Letitia	*Kansas City, Mo.*
Marlewski, Sylvia Vera	*Milwaukee*
Marling, Margaret ls	*Madison*
Marquardt, Ralph Robert ls	*Sauk City*
Marr, J. C., Jr.	*Lubbock, Tex.*
Marsh, Dorothy Lillian, B.A.	*Akron, Ohio*
Marsh, George Sherman	*Pine River*
Marshall, Elizabeth	*Madison*
Marshall, Grace Ellis	*La Valle*
Marshall, Irene Marie	*Chicago, Ill.*
Marshall, Janet Kathryn ls	*Milwaukee*
Marshall, Mary Angela	*Indianapolis, Ind.*
Marshall, Virginia Marmaduke	*Greendale, Ky.*
Marston, Josephine, B.A.	*Wilmington, Del.*
Martens, Alice Lilian ls	*Kaukauna*
Martens, Lorraine Christine ls	*Madison*
Martin, Emma Irene	*Dodgeville*
Martin, Gilbert Henry, Jr.	*Pine Bluff, Ark.*
Martin, Irene Muriel, B.A.	*Green Bay*
Martin, Thomas Jeffries ls	*Lexington, Tex.*
Marty, Etta Edna	*Verona*
Marvin, Hazel Anne	*Kingman, Kan.*
Marvin, Ruth Harriet	*Hamilton, Ohio*
Mason, Estelle Julia	*Mauston*
Masted, Leonard Conrad	*Wittenberg*
Mathauser, Beatrice	*Chicago, Ill.*
Mathewson, Mabel Charlotte	*Detroit, Mich.*
Mathieu, Marion I.	*Chippewa Falls*
Mathis, Doris Margaret	*Chicago, Ill.*
Matthews, Margaret Elizabeth, B.A.	*Edinburg, Pa.*
Maurseth, Stanley Freeman ls	*Madison*
Max, Ethel Mildred	*Sheboygan*
Maxson, Carol, B.A.	*Wauwatosa*
Maxwell, Erma Bernice	*North Star, Mich.*
Maxwell, Richard Barnett	*Winona, Minn.*
Mayer, Carl Gottfried ls	*Chicago, Ill.*
Mayer, Dorothy Luella ls	*Devils Lake, N. D.*
Mayer, Mabel L.	*Cleveland Heights, Ohio*
Meagher, Paul Eldridge ls	*Mattoon*
Mealey, Ethel Marie, B.S.	*Kansas City, Mo.*
Means, Mildred Alletta ls	*Edgar*
Mears, Claude Axtell	*Pepin*
Meehan, Elizabeth, B.A.	*Weehawken, N. J.*
Meeks, Grace L.	*Muncie, Ind.*
Megeath, Metta Miller ls	*Yonkers, N. Y.*
Megchelsen, Paul Gerard	*Keokuk, Iowa*
Mehnert, Martha Caroline ls	*Wauzeka*

Meier, Anna	*Colorado Springs, Col.*
Meinke, William G., M.A.	*Defiance, Ohio*
Meisenheimer, Jack Joseph	*Milwaukee*
Melin, Edwin	*Boyne City, Mich.*
Mercer, Isabel Gillette ls	*Saginaw, Mich.*
Merritt, Frances Hayward ls	*Lockport, N. Y.*
Merwin, Joseph King	*New Haven, Conn.*
Metcalf, Alice	*Darlington*
Metcalf, Harold Harris, B.S.	*Madison*
Metcalf, Ralph ls, m	*Spring Green*
Mettenet, Jeanne ls	*Chicago, Ill.*
Metzker, Amalia Louise	*Milwaukee*
Metzner, Alice Bernice	*Detroit, Mich.*
Meyer, George Adolph	*Patch Grove*
Meyer, Gladys Faye ls	*Prairie du Sac*
Meyer Henriette Caroline	*St. Louis, Mo.*
Meyer, Olive Faith	*Kansas City, Mo.*
Meyer, Ovid Otto ls, m	*Rosholt*
Meyne, Gertrude Marie mu	*Hortonville*
Meyne, Margaretha Isabel	*Hortonville*
Michaelis, Rexford William ls	*Marion*
Middlecoff, Mary Elizabeth	*Ashland*
Millar, Maude M.	*Superior*
Millard, Allen L. ls, m	*New London*
Miller, Aubrey Frederic	*Dayton, Ohio*
Miller, Clarence Lee, M.A.	*Salina, Kan.*
Miller, Doris Diana	*Whitewater*
Miller, Edith Sara ls	*San Juan, Porto Rico*
Miller, Ezra Albert, Ph.B.	*Manitowoc*
Miller, Florence Theresa ls	*Ellsworth*
Miller, Frank Roy ls	*Madison*
Miller, Harold	*Milwaukee*
Miller, Iona	*Tulsa, Okla.*
Miller, Katherine	*Ponca City, Okla.*
Miller, Katherine Marie, B.A.	*Fort Wayne, Ind.*
Miller, Leona Bert, B.S.	*Columbia, Mo.*
Miller, Lillian Louise	*Milwaukee*
Miller, Maude	*Admire, Kan.*
Miller, Richard Dunbar, e	*Racine*
Miller, Ruth Agnes ls	*Milwaukee*
Millions, Bernice Elizabeth	*Crandon*
Milliren, Monroe Byron	*Eau Claire*
Mills, William Pierpont	*Wauzeka*
Milnitz, Lillie Louise	*Appleton*
Miltonberger, George Wesley	*Huntington, Ind.*
Miner, Ernest Darius	*Crandon*
Ming, Catharine West	*Davenport, Iowa*
Misher, Helen Louise	*Chicago, Ill.*
Mishnun, Florence	*New York, N. Y.*

Mitchell, Grace Rand	*Mt. Carmel, Ill.*
Mitchell, Kathryn Ursula	*Aurora, Ill.*
Mitchell, Margaret Bluette ls	*Superior*
Mitchell, Marion McLean ls	*Madison*
Mitchell, Merritt, Golden, B.A.	*Wittenberg*
Mitchell, Morton Leslie, B.A.	*St. Louis, Mo.*
Moeser, Marshall William ls	*Port Washington*
Mohr, Anne Lorene	*Rockport, Ind.*
Mokrejs, J. John	*Cedar Rapids, Iowa*
Molison, Grace Evelyn	*Malcom, Iowa*
Mollirus, Dorothy E., ls	*Milwaukee*
Mollison, Minnie Osborne	*Louisville, Ky.*
Monat, William Stephen	*Chippewa Falls*
Monsen, Hanna Elise	*Milwaukee*
Moore, Albert Leslie	*Darlington*
Moore, Alfred Nash ls	*Rockford, Ill.*
Moore, Anna Maurine	*Mulberry Grove, Ill.*
Moore, Corinne Mary, B.A.	*Ada, Okla.*
Moore, Louise Gillespie, B.A.	*Houston, Tex.*
Moore, Margaret ls	*Thornton, Ind.*
Moore, Martha Elizabeth	*Houston, Tex.*
Moore, Mary Field	*Smithfield, Pa.*
Moore, Mildred Ellen	*St. Louis, Mo.*
Moore, Raymond Jennings	*Milwaukee*
Moran, Wilson Alexander ls	*Onalaska*
Morgan, Minnie Christina	*Tomah*
Morgan, Ruth A.	*Dexter, Mo.*
Morley, Walter Kelley, Jr. ls	*Madison*
Morony, Thomas Ward ls	*Valparaiso, Ind.*
Morris, Edward David ls	*Cambria*
Morris, Lillian, B.A.	*Du Quoin, Ill.*
Morris, Marorie Marie	*Detroit, Mich.*
Morris, William Charles ls	*Ashland*
Morrison, John Taylor, ls m	*Madison*
Morrissey, Hazel Kathryn ls	*Arena*
Morrow, Archie	*Madison*
Morsbach, Edward Augustus	*Durand*
Morse, Alice Coral	*Milwaukee*
Morse, Catherine Delores	*Chicago, Ill.*
Morse, Mabel Ellen	*Detroit, Mich.*
Morse, Orson Stephen	*Richland Center*
Mortimer, Carol Marie ls	*Milwaukee*
Moser, Fred Joseph ls	*River Falls*
Moses, Margaret Elizabeth ls	*Eau Claire*
Moser, Robert	*Cumberland*
Moss, Doris Marie	*Mattoon*
Moss, Bertha	*Antigo*
Moss, Helen Edith	*Antigo*
Moyer, Louise Patricia	*Rockford, Ill.*

Muellenschlader, Helen Augusta	*Milwaukee*
Mueller, Irene Crusius, B.A.	*St. Louis, Mo.*
Mueller, Pearl Mary	*St. Louis, Mo.*
Mueller, Ruth Johanna	*La Crosse*
Muggleton, Esther Dempey ls	*Janesville*
Muir, Grace Marion	*Lomira*
Mularkey, Anne Ignata	*Bear Creek*
Mullins, Hazel Monica	*Grand Rapids, Mich.*
Mulrine, Maude Thressa	*Black River Falls*
Mundy, Julia May	*Dodgeville*
Munson, Janette	*Argyle*
Munson, Thenora	*Stoughton*
Murdoch, Harell Alexander	*Chicago, Ill.*
Muren, Myrtle Gertrude ls	*Madison*
Murley, Leone ls	*Boscobel*
Murphy, Elaine Marge ls	*Riverside, Ill.*
Murphy, Evelyn Patricia	*Bear Creek*
Murphy, Margaret, B.A.	*Carlinville, Ill.*
Murphy, Rex Leo, B.A.	*Bethany, Neb.*
Murphy, Ruth Gertrude	*Fond du Lac*
Murray, Margaret ls	*River Forest, Ill.*
Murray, Nina Jeannette, B.S.	*Toulon, Ill.*
Muscheid, Gladys Elizabeth ls	*West Salem*
Mutch, Geneva	*Mauston*
Myers, Arthur, B.A.	*Evansville*
Myers, Ellen Lenore	*Parkersburg, W. Va.*
Myers, Mabel Lydia ls	*Ft. Recovery, Ohio*
Myers, Verna Audrey, B.S.	*Chicago, Ill.*
Myhra, Alma Elvina	*Henning, Minn.*
Myhra, Mabel Corrine	*Henning, Minn.*
Narbutt, Helen Teresa	*Chicago, Ill.*
Nardin, George Frederick	*Columbia, Mo.*
Nashold, Mariam Lucile ls	*Madison*
Neaderhouser, Edna Carroll, B.A.	*Berne, Ind.*
Neaderhouser, Elma	*Berne, Ind.*
Neff, Marcelia Coad ls	*Milwaukee*
Nelson, Carl Irvin	*Pardeeville*
Nelson, Edna Clarinda, B.A.	*Red Wing, Minn.*
Nelson, Fredolph Carlyle	*Madison*
Nelson, Jennie Elvera	*Chicago, Ill.*
Nelson, Nander Manley a	*Ladysmith*
Nelson, Nellie Suena	*Argyle*
Nelson, Raymond Horten	*Rib Lake*
Nelson, Vivian Janet	*Ashland*
Nelvick, Nellie Marie	*Eau Claire*
Nesthus, Ethel Flora	*Deerfield*
Nethercott, Margaret Audrey	*Superior*
Netzow, Lillian Cecille ls	*Milwaukee*
Nevins, Charles Veranes	*Oshkosh*

Newby, Ethel	*Almond*
Newell, Elizabeth Mae	*Irma*
Newell, Pauline LaTourette ls	*Evanston, Ill.*
Newhardt, Christine	*Bluffton, Ind.*
Newlun, Chester Otto	*Marshfield*
Newman, Amandia Hazel, B.S.	*Columbia, Mo.*
Nichol, Walter Howard	*Marinette*
Nichols, Arthur Forbes	*La Grange, Ill.*
Nichols, Lee Brownell	*Milwaukee*
Nicholson, Mae Eleanor	*Green Bay*
Nickel, Ruth Mary	*Winneconne*
Nickerson, Rheba Dorothy, B.A.	*Oberlin, Ohio*
Nicola, Leo John	*Chicago, Ill.*
Niedercorn, Joseph George ls	*Manitowoc*
Nielsen, Maurice Louis	*Milwaukee*
Nighswonger, Eleanor	*Decatur, Ill.*
Nightingale, Agnes Felicia	*Koepenick*
Nimtz, Frank Joseph	*Westboro*
Nippert, James Gamble	*Cincinnati, Ohio*
Noble, Dorothy Vernon	*La Crosse*
Nolte, Clifford S. ls	*Wauwatosa*
Norberry, Ruth Muriel	*Hancock, Mich.*
Nord, Dorothy Furbush, B.A.	*Earlville, Ill.*
Nord, Oscar Arvid, B.A.	*Earlville, Ill.*
Norgan, Andrew Thomas, B.A.	*Drumore, Pa.*
Norgord, Andy ls	*Cambridge*
Northup, Esther Grinnell ls	*Marshalltown, Iowa*
Norton, Martha Clare	*Chicago, Ill.*
Novack, Catherine Blanche	*Kenosha*
Nuzum, Thomas Ochsner	*Janesville*
O'Brien, Kathleen Dorothy	*Escanaba, Mich.*
O'Callaghan, Marie Evangeline, B.A.	*Milwaukee*
O'Callaghan, Mary Beatrice, B.A.	*Grand Rapids, Mich.*
O'Callahan, Josephine Bernadette	*Milwaukee*
O'Connell, Alfred Patrick	*Roberts*
O'Connell, Anne Dorothy	*Chicago, Ill.*
O'Connell, Eleanor Mary, B.S.	*Salina, Kan.*
O Connell, George Earl ls	*Madison*
O'Connell, William Francis ls	*Roberts*
O'Connor, Frances Catherine	*Elmira, N. Y.*
O'Connor, Gertrude, B.A.	*Monticello, Ind.*
O'Connor, Katherine Mary	*Girard, Ohio*
O'Connor, Mark Robert	*Pewaukee*
O'Connor, Ruth Lois	*Elgin, Ill.*
Odell, Laurence Henry ls	*Delavan*
Oechsner, Frederick Cable	*New Orleans, La.*
Oelke, Anita Erdmuthe	*Milwaukee*
Oesau, Theodore Johannes	*Milwaukee*
Oglesby, Mary Bess	*Millington, Tenn.*

Ohlsen, Michael P. ls	*Milwaukee*
Oium, Geneva Esther	*Oshkosh*
Okada, Haruto	*Honokao, Hawaii*
O'Keefe, Mary Calista, B.A.	*Portage*
Olcott, Emma	*Milwaukee*
Older, Leone Florence	*Portage*
O'Leary, Margaret	*Appleton*
Oleson, Frances Isabel	*Palmyra*
Olson, Clara	*Hollandale*
Olson, Clara Irene	*Stoughton*
Olson, Evelyn Agatha, B.A.	*Scandinavia*
Olson, Janet Mary ls	*Madison*
Olson, Margaret Donovan ls	*Madison*
Olson, Minnie Charlotte	*Chicago, Ill.*
Olson, William Arthur	*Blanchardville*
O'Malley, Letitia Magdelen ls	*Madison*
O'Malley, Mary Ailene ls	*Waunakee*
O'Malley, Mary Frances, Ph.B.	*Chicago, Ill.*
O'Neill, Agnes Freedom	*Hersey*
O'Neill, Catherine Elizabeth ls	*Madison*
O'Neill, Josephine Charlotte ls	*White Lake*
O'Neill, Roy	*Ridgeway*
Oro, Harloff Emil, B.A.	*Ashland*
O'Rourke, Harry Dan	*Madison*
Orth, Helen Gertrude	*Terre Haute, Ind.*
Ortmann, Clara Belle	*St. Louis, Mo.*
Osmundson, Pauline	*Thompson, Iowa*
Osterndorf, Alfred William ls	*Platteville*
Osterndorf, Fred Peter	*Wonewoc*
Ostrum, Helen May	*Hancock*
Ostrum, James E.	*Hancock*
Ottaway, Thelma Ruble	*Canton, Ill.*
Oviatt, Dorothy J.	*Columbus*
Owen, Thomas Henry, Jr. ls	*Oklahoma City, Okla.*
Owens, Elizabeth Wagenbreth	*St. Louis, Mo.*
Owens, Glenn ls	*Dodgeville*
Oxley, Sallie Sweetland	*Huntington, W. Va.*
Ozment, Mary Louise	*Harrisburg, Ill.*
Paciotti, Roland A. ls	*Eveleth, Minn.*
Pack, Leon L. ls	*Madison*
Page, Gilman Gray	*Madison*
Page, Marius Curt ls	*Baraboo*
Paige, Delbert Romig ls	*Pueblo, Col.*
Painter, Virginia Estelle	*Lock Haven, Pa.*
Palmer, Gardner Ervin	*Detroit, Mich.*
Palmer, Iva Bell, B.A.	*Oakfield*
Palmer, Phyllis Jane, Ph.B.	*Alfred, N. Y.*
Palmer, Tom Edward ls	*St. Croix Falls*
Paquette, Oscar Joseph l	*Shullsburg*

Paradies, Richard Henry, Jr. ls	*Mindanno, P. I.*
Pardoe, Nellie Evaline	*Johnstown, Pa.*
Parker, Dorothy Ione	*Bloomington, Ill.*
Parker, Ida Louise, B.A.	*St. Louis, Mo.*
Parker, Josiah Atkins ls	*St. Louis, Mo.*
Parker, Katherine B. ls	*Beaumont, Tex.*
Parker, Maude	*Beaumont, Tex.*
Parker, Ruth Ritchey	*Covington, Ky.*
Parker, Virginia Rosalie	*Janesville*
Parkhill, Edith Muriel	*Rochester, Minn.*
Parks, Norma Jessie	*St. Louis, Mo.*
Parshall, Inez, B.A.	*Akron, Ohio*
Parsons, Emily R.	*Madison*
Parsons, Rolland Webster ls	*Martintown*
Partridge, Helen Birdena	*Mattoon*
Pasenhofer, Minnie	*Superior*
Patch, Grace Esther	*Randolph,Ohio*
Patrey, Cecil Lorene, B.A.	*Madison*
Patrick, Le Vone, B.A.	*Tuscola, Ill.*
Patterson, Cornelia Snook	*Aurora, Ill.*
Patterson, Susie Elizabeth	*Prairie du Sac*
Paul, Charles Everly	*Columbus, Ohio*
Paull, Hazel Murrell	*Ridgway*
Paull, Roscoe Alvin ls, m	*Ridgway*
Pauly, E. Lucille	*St. Louis, Mo.*
Payne, Joseph Cannon ls	*Danville, Ill.*
Pearce, Margaret Cathryn, B.S.	*Chicago, Ill.*
Pearsall, Ida Belle	*Aurora, Minn.*
Pearsall, Orpha Golden	*Aurora, Minn.*
Pearse, Richard Lehmer ls	*Madison*
Pearson, Ethel Elvera, B.A.	*Davenport, Iowa*
Pearson, Norma Lenys, M.A.	*Madison*
Pease, Elva Esther	*Trego*
Pecher, Marion Hoven	*Madison*
Peck, Hollis C. ls	*Elkhorn*
Peet, Carolyn Lane ls	*Hinsdale, Ill.*
Peine, Jack Rees	*Chicago, Ill.*
Pennington, Bertha, B.S.	*Brounsburg, Ind.*
Penwell, Ione Hayward	*Pana, Ill.*
Perdue, John Armer, Jr.	*Pine Bluff, Ark.*
Perrin, Louisa Butler, B.A.	*Amelie, Ohio*
Perry, Edward Benjamin	*Madison*
Perry, Norma Winifred	*Appleton*
Peterhaensel, Arthur Curt	*Plymouth*
Peterson, Adolph H. ls	*Irma*
Peterson, Carl Henry	*Stambaugh, Mich.*
Peterson, Conrad	*Middleton*
Peterson, Ephraim L. ls	*Stockholm*
Peterson, Lester William	*Eau Claire*

Peterson, Margaret Christine	*Leonardsville, N. Y.*
Peterson, Mary White, B.A.	*Madison*
Peterson, May Marguerite ls	*Sterling, Ill.*
Peterson, Peter	*Racine*
Peterson, Thelma Lucile, B.A.	*Laurens, Iowa*
Petrie, Dorothy Stewart	*Alexandria, La.*
Peyton, Martha Mary	*Lucy, Tenn.*
Pfeifer, Robert Fulton ls	*Shebyogan Falls*
Pfeifer, Russell George ls	*Madison*
Pfeiffer, Elizabeth Catherine	*Erie, Pa.*
Pflaum, Elsie Louise	*Delavan*
Phelan, Edith E.	*Sandusky*
Phernetton, Madge Lois	*Hammond*
Phillipp, Charles ls	*Prairie du Chien*
Phillips, Genevieve	*Madison*
Phillips, Harry Ansil ls	*Terre Haute, Ind.*
Phillips, Landon, B.A.	*Evanston, Ill.*
Phillips, Lucile ls	*Reedsburg*
Phillips, Margaret Evelyn ls	*Randolph*
Phillips, Neil John ls	*Chicago, Ill.*
Phillips, Russell Clarence	*Wabeno*
Phillips, Vivian Eric	*Kansas City, Mo.*
Phipps, Laura Elizabeth	*Ft. Wayne, Ind.*
Pilcher, Elizabeth Dean	*Louisville, Ky.*
Pilcher, Grace Wendover	*Louisville, Ky.*
Pipal, Emily Ruby	*Blue River*
Piper, Elizabeth Ann ls	*Madison*
Piper, Roland Arthur ls	*Madison*
Platt, Helen Marie	*Benton Harbor, Mich.*
Podeweltz, Helen Olga	*Merrill*
Pofe, Olga Ernestine ls	*Milwaukee*
Pohl, Marguerite Ruth, M.A.	*Madison*
Polka, Agnes Mary	*Chicago, Ill.*
Pollock, Matilda	*Rochester Mills, Pa.*
Pope, Henry, Jr.	*Chicago, Ill.*
Porter, George Fuller	*Bloomington*
Porter, Stuart P. ls	*Brookfield, Ill.*
Portman, Raymond Joseph ls, m	*Ladysmith*
Poser, Edward Falk, ls, m	*Columbus*
Poser, Frederick Falk ls	*Columbus*
Potter, Doris Geraldine ls	*St. Joseph, Mich.*
Potter, Olive Edith	*Mt. Pleasant, Mich.*
Potts, Dorothy Louise	*Kosciusko, Miss.*
Powell, Doris Kathleen	*Chicago, Ill.*
Powell, Florence M.	*Chicago, Ill.*
Powell, Mary Jemima	*Streator, Ill.*
Powers, Ruth Evelyn ls	*Chicago, Ill.*
Powers, Sarah Cornelia	*Delavan*
Pratt, Ethel Mae	*Plainfield*

Pratt, Velmer D.	*Madison*
Prehn, Fred C.	*Wausau*
Prescott, Dorothy Isabel	*Madison*
Preston, Edith Florence	*Wichita, Kan.*
Preus, Gerda Eleonore	*Mason City, Iowa*
Price, Naomi Elizabeth	*Chippewa Falls*
Price, Temple Vere, B.S.	*Vermont, Ill.*
Price, William Franklin	*Black River Falls*
Prihoda, Vaclav, Ph.D.	*Chicago, Ill.*
Prisk, Genevieve	*Mineral Point*
Proctor, Forrest Allan	*Hampton, Iowa*
Pscheidt, Andrew Charles	*Neillsville*
Puehler, Mary Ursula ls	*Madison*
Puehler, Ruth Mary ls	*Madison*
Puckner, Marie Iona	*Wittenberg*
Puff, Bertha Katherine ls	*Newport, Ky.*
Pugh, Cloyd, B.S.	*Ridge Farm, Ill.*
Pugh, Ellen Williams, B.A.	*Radnor, Ohio*
Pumphrey, Loira C.	*Carthage, Ill.*
Purvines, Frances	*Pleasant Plains, Ill.*
Putnam, Ruth	*Arcola, Hackensack, N. J.*
Qualle, Ida Minerva	*Martell*
Quigley, Earl Francis	*Oshkosh*
Quinby, Elsie May, B.A.	*White Plains, N. Y.*
Raaen, Aagot, B.A.	*Deerfield*
Raasch, Meta Maria	*Milwaukee*
Rackham, Henrietta	*Mankato, Minn.*
Raddant, Louis August ls	*Shawano*
Radder, Elsie Fjelstad	*Sheboygan Falls*
Rademaker, Ethel Lydia	*Emden, Ill.*
Rae, John Marshall	*Storm Lake, Iowa*
Raef, Mildred J. ls	*Milwaukee*
Raettig, Meta Bernadine	*Antigo*
Railton, Ruth Beatrice	*Cazenovia*
Rainie, Walter James	*Cleveland, Ohio*
Ralph, Leland Paul ls, m	*Cuba City, Iowa*
Ralston, Mary Agnes	*Rockford, Il.*
Ramsey, Lawrence Sherman ls	*Cedar Rapids, Iowa*
Randall, Jean Malen	*Madison*
Randolph, Hazel Marie, B.S.	*Lafayette, Ind.*
Ransom, Mary, B.A.	*Tullahoma, Tenn.*
Raper, Dorothy ls	*East Cleveland, Ohio*
Raser, George Bernard	*Ashtabula, Ohio*
Rasmussen, Carrie ls	*Aurora, Ill.*
Rathert, Charles Edward ls, m	*Chilton*
Rau, Ernest William	*Tulsa, Okla.*
Rawes, Harriett, B.A.	*Carthage, Ind.*
Raymond, Jessie Lauretta ls	*Madison*
Reader, Marleine Elizabeth ls	*Delavan*

Reck, Virginia Dart ls	*Madison*
Redell, Alma Wilhelmena ls	*Madison*
Redstrom, John Raul, B.A.	*Kenosha*
Reed, Eunice Beatrice, B.A.	*Mentone, Ind.*
Reed, Joseph, M.A. g	*Madison*
Reed,Laura Amanda	*Eland*
Reed, William Thomas	*Columbus, Ohio*
Reeder, Gladys Lucille	*Wautoma*
Regan, Irene	*Watertown*
Regan, Julia Agnes	*Milwaukee*
Reichelt, Norma Augusta	*La Crosse*
Reik, Eugene	*Ft. Thomas, Ky.*
Reilly, Marcella Genevieve	*Fond du Lac*
Reiner, Henry Christian	*St. Louis, Mo.*
Reiner, Richard	*St. Louis, Mo.*
Reinhardt, Mattilda Margaret	*Peru, Ill.*
Reinholdt, Helen Paine	*Youngstown, Ohio*
Reinke, Oscar Alfred ls	*Aniwa*
Rennick, Hilda May	*Kansas City, Kan.*
Renzel, Ernestine Eaton ls	*San Jose, Cal.*
Reppen, Nels Oliver	*Colfax*
Reyer, Harold Benedict	*Madison*
Rhea, Gilbert Dorsett	*Greencastle, Ind.*
Rhenstrom, Eric Vernon	*Kenosha*
Rhode, Bernice Julia ls	*Kenosha*
Rhodes, Cecil M.	*Estherville, Iowa*
Riblet, Louise	*Muskegon, Mich.*
Rice, Aileen Kathleen	*Kewaunee*
Rice, Catherine Marie ls	*Madison*
Rice, Phyllis, B.A.	*Northampton, Mass.*
Richards, Ruth, B.Pd.	*Muskegon, Mich.*
Richardson, Eddie C. ls	*Spring Green*
Richardson, Harold Davis	*Spring Green*
Ridge, Harvey J.	*Whitewater*
Ridley, Blanche	*Corydon, Ind.*
Riedesel, Bernice	*Sioux Falls, S. D.*
Riggert, Edwin William ls	*Reedsburg*
Riley, Aileen, B.A.	*Indianapolis, Ind.*
Riley, Harriett Fleming	*Michigan City, Ind.*
Ringdahl, Harry James, B.A.	*Madison*
Ringheim, Margaret	*Nevada, Iowa*
Risk, Thomas Marion ls	*Madison*
Ritchay, Arthur Aaron	*Wisconsin Rapids*
Ritchie, Gorton ls, m	*Evanston, Ill.*
Ritter, Vesta V. ls	*St. Joseph, Mo.*
Rivard, Raymond Robert	*Madison*
Rivers, Byron Folsom ls	*Louisville, Ky.*
Roach, Carroll E. ls	*Waterloo*
Robbins, Holden John ls, m	*Madison*

Roberts, E. Kate	*Holden, Mo.*
Roberts, Evelyn Hortense, M.S.	*Omaha, Neb.*
Roberts, Jessie Ingram, B.A.	*St. Joseph, Mo.*
Roberts, Junius Everett, M.A.	*Stoughton*
Robertson, Jean Marie, B.A.	*Lodi*
Robertson, LeRoy Link	*St. Louis, Mo.*
Robertson, Walter Marvin	*Laredo, Mo.*
Robinson, Ferne Florence	*Mauston*
Robinson, Louise Cornell, Ph.B.	*Chicago, Ill.*
Robinson, Marion Dorothy	*Madison*
Robinson, Owen Long, B.A.	*Conneaut Lake, Pa.*
Robinson, Sumner Jennings.	*Wollaston, Mass.*
Rock, Edward Peter	*Hudson*
Roedter, Charlotte, B.A.	*Mt. Auburn, Cincinnati, Ohio*
Rogers, Clarence James	*Sparta*
Rogers, Esca Beattie	*Kalamazoo, Mich.*
Rogers, Harriet Nell	*West Lafayette, Ohio*
Rogers, Irving Emerson	*Lawrence, Mass.*
Rogers, Ralph Leroy	*Clinton, Iowa*
Rogerson, Margaret Harriet, Ph.B.	*Alton, Ill.*
Rohloff, Alfred Edward	*Ripon*
Rohr, James Earl	*Nekoosa*
Rohr, Naomi Cornelia	*Rockford, Ill.*
Rohrheimer, Rena Martha	*Philadelphia, Pa.*
Romig, Annabel Charlotte, B.A.	*Dennison, Ohio*
Rood, Clara Catherine ls	*Madison*
Rooney, John Magnus ls	*Madison*
Root, Amarette, B.A.	*Kansas City, Mo.*
Root, Frances Esther, B.S.	*Oakes, N. D.*
Root, Merle Ellington	*Charleston, Ill.*
Rose, Besse Mahan, B.A.	*Williamsburg, Ky.*
Rose, Helen Mary	*Cleveland, Ohio*
Rosenberg, Edwin L. ls	*Milwaukee*
Rosenberry, Samuel Landfair	*Madison*
Rosenthal, Ralph Julius	*Chicago, Ill.*
Rosentreter, Frederick William	*Madison*
Ross, Fred Earl B.A.	*Blandville, W. Va.*
Ross, Helen Gladys, B.A.	*Superior*
Ross, Hilary Elizabeth, B.A.	*Milwaukee*
Ross, Jessie Morrison	*Chicago, Ill.*
Ross, Martha Mary	*Milwaukee*
Ross, Myrl Agnes	*Roberts*
Ross, Wanda May, B.A.	*Oklahoma City, Okla.*
Roth, Alice Wilhelmina	*St. Louis, Mo.*
Rouiller, John James ls	*Manitowoc*
Roush, Prudence Mary, B.A.	*Akron, Ohio*
Rowe, Viola Mae	*Chicago, Ill.*
Rowley, Edith	*Sycamore, Ill.*
Rowley, Elizabeth Margaret	*Sycamore, Ill.*

Royce, Bertha May, B.A.	*Naperville, Ill.*
Royhl, Ella Mina	*Sioux Falls, S. D.*
Rubel, Henry Scott	*Brightwater, L. I., N. Y.*
Rubart, Marie	*Chicago, Ill.*
Rudersdorf, Bertha	*Janesville*
Ruff, Marjorie Ann	*Hammond, Ind.*
Buffalo, Anthony ls, m	*Racine*
Rugen, Mabel Esther ls	*Glenview, Ill.*
Ruggles, Ruth Mary	*Baraboo*
Ruhnke, Reinhard H.	*Milwaukee*
Rumbaugh, Esther Elizabeth	*Danville, Ill.*
Runkle, W. Edgar	*Shelbyville, Ill.*
Rushton, Carroll Curtis	*Escanaba, Mich.*
Russ, Mabel Carrie	*Middleton*
Russell, Hiram Stone	*Keene, N. H.*
Russell, Ruth Edna, M.A. g	*Kansas City, Kan.*
Rust, Clarence Arthur ls	*Madison*
Rusten, Ruth Pauline	*Eau Claire*
Ryan, Ellen Murray	*Wausau*
Ryan, Grace Mary	*Dubuque, Iowa*
Ryan, Lucile Margaret a	*Sheboygan*
Ryan, Margaret Ellen	*Ironwood, Mich.*
Ryan, Orpha Jean	*Roachdale, Ind.*
Ryburn, Madeline Elsie	*Bloomington, Ill.*
Sabean, Inez Maude	*Hayward*
Sachtjen, Maude	*Plainfield*
Sage, Catherine Lenore	*Madison*
Sah, Pete Pen-Tieh ls	*Peking, China*
Stainsbury, Margaret Mary	*La Moille, Minn.*
Salb, Irene ls	*Berwyn, Ill.*
Salter, Esther Ruth	*West De Pere*
Salter, Marjorie Moultrie, B.A.	*Chicago, Ill.*
Sammis, Flora Elizabeth ls	*Madison*
Sample, Bertha Alice	*Indianapolis, Ind.*
Sample, Omar Hendley ls	*Madison*
Samuelson, Ruth Helene ls	*Hildreth, Neb.*
Sanborn, Edwin Wilfred	*Waupun*
Sandborn, Lloyd Thompson, B.A.	*Appleton*
Sander, Oscar A. ls, m	*Madison*
Sanders, Flora Belle	*Wyandotte, Mich.*
Sanderson, Louie Charlotte	*St. Elmo, Tenn.*
Sanders, Walter George	*Florence*
Sannes, Christen Ravy	*Madison*
Sather, Cora Odella, B. A.	*Cottonwood, Minn.*
Sauer, Edward Field, B.S.	*Louisville, Ky.*
Saunders, Benjamin Walker	*Oregon*
Saunders, George Murdoch	*Superior*
Saunders, Roberta, B.A.	*Newark, N. J.*
Saunderson, George Clare ls	*Orfordville*

Saylor, Edythe Ellen, B.A.	*Burlington, Iowa*
Scamman, Anna E., B.S.	*Kansas City, Mo.*
Scanlan, Gerald	*Fennimore*
Scanlon, Helen Agnes ls	*Madison*
Scarborough, Hattie Lucinda	*Florence, Kan.*
Scarborough, Homer Cuthbert, B.A.	*Florence, Kan.*
Schacht, Hildegarde Lydia	*Racine*
Schaeffer, Orville V., B.S.	*Hindsboro, Ill.*
Schalk, Ella Martha	*Berlin*
Schall, Alice Gertrude	*Moline, Ill.*
Schawe, Aria Parke	*Cincinnati, Ohio*
Schemmer, Paula	*Milwaukee*
Scherrer, Charles Fred, B.S.	*Alton, Ill.*
Scherrer, Fred William, Jr.	*St. Louis, Mo.*
Schilling, Elisabeth Magdalen	*Darlington*
Schilling, Ethel Florence g	*Green Bay*
Schinzel, Henrietta	*Burlington, Iowa*
Schlicher, Hildegarde ls	*Madison*
Schlicht, William M.	*Sheboygan*
Schlosser, Emma Jo ls	*Wauwatosa*
Schlueter, Norine	*Omaha, Neb.*
Schlumberger, Tillie Rosalie	*Reedsburg*
Schmidt, Lydia Hulda ls	*Milwaukee*
Schmidt, Samuel Frederick	*Bensenville, Ill.*
Schmudlach, Lena Hulda	*Hancock*
Schmudlach, Meta E., M.A.	*Hancock*
Schneider, Esther Frederica, B.A.	*Urbana, Ill.*
Schneider, Harvey Austin	*Milwaukee*
Schneyer, Oscar Louis ls	*Bloomington*
Schnittger, Margaret Gretchen	*Superior*
Schoener, Celesta Florence	*Clinton, Iowa*
Scholfield, R. T.	*Ableman*
Schoonover, Arthur Floyd	*Springfield*
Schou, Frances Alma ls	*Richland Center*
Schreiner, John ls	*Lancaster*
Schreiner, Rachel, B.A.	*Lancaster*
Schroeder, Mildred Margaret B.J.	*North Kansas City, Mo.*
Schuetz, Ralph J. ls	*Middleton*
Schujahn, Irene Katherine, B.A.	*Tuscola*
Schuler, Catharine Ellen, B.S.	*Milwaukee*
Schuler, Dominic H., B.S.	*Milwaukee*
Schuler, Frederick William	*Monroe*
Schuler, Margaret Mary, B.A.	*Milwaukee*
Schultz, Alma ls	*Birnamwood*
Schultz, Eleanor Rose	*Cleveland, Ohio*
Schultz, Margrett Christine, B.A.	*Toledo, Ohio*
Schulz, Hilda Marion ls	*Wauwatosa*
Schumann, Hedwig, Ph.B.	*Milwaukee*
Schumann, Helen Margaret	*Frankfort, Ind.*

Schumann, Matilda Marie	*Milwaukee*
Schutzberger, Anna	*Chicago, Ill.*
Schwandt, Irma M.	*Wauwatosa*
Schwartz, Sam ls	*Madison*
Schweingruber, Wilhelmine	*Sheboygan*
Schwingle, Carl Jacob	*Blue River*
Scott, Bernice Majorie ls	*Cambridge*
Scott, Genevieve Naoma	*Chicago, Ill.*
Scott, Leota Laura	*Nenanva, Alaska*
Scott, Lucy Jeanette	*Kansas City, Mo.*
Scott, Mary	*Oshkosh*
Scott, Mary Beth, B.A.	*Morrisonville, Ill.*
Scott, Norman Denton ls	*Sioux Falls, S. D.*
Scott, Ralph Vernon	*Hardin, Mont.*
Scripps, Mary Elizabeth	*Peoria, Ill.*
Scriven, Elta Pearle, B.A.	*Omaha, Neb.*
Scriven, Frank Dee	*Omaha, Neb.*
Scudder, Marjorie, B.A.	*Marinette*
Scupholm, Myra Beatrice, B.A.	*Port Huron, Mich.*
Seachrist, Helen	*Kansas City, Mo.*
Searing, William Edward ls	*Mankato, Minn.*
Seeboth, Alice Marie ls	*Milwaukee*
Seefeldt, Louie Carl	*Wausau*
Seegar, Nellie	*Forest Park, Ill.*
Seelman, Ralph George ls	*Milwaukee*
Seering, Dorothy Letitia	*Campbellsport*
Seid, Reuben	*Chicago, Ill.*
Seideman, Cora Margaret	*Sheboygan*
Seinfel, Ruth	*New York, N. Y.*
Sell, Ethelyn Beatrice ls	*Reeseville*
Selleck, Eugene Roy	*Sterling, Ill.*
Sender, Frank Robert	*Chicago, Ill.*
Sexton, Irene Marie	*Oshkosh*
Seybold, Anna Katharine	*Forest Junction*
Seybold, Sayda Ernestine	*Forest Junction*
Shafer, Elinor Adele	*Wauwatosa*
Shafrin, Irvine Monro	*Milwaukee*
Shaller, Frank Jamison a	*Whitewater*
Shanahan, Helen, B.A.	*Lima, Ohio*
Shaner, Hazel Verda	*Neponset, Ill.*
Shanks, Mertis Isabel ls	*Merrimac*
Shapiro, Lazare Melvin ls, m	*Madison*
Sharp, Mary Frances, B.A.	*Iowa City Iowa*
Sharp, Norman Graves Eyles ls	*Corning, N. Y.*
Sharp, Sarah Louise	*Madison*
Shattuck, Lucile May ls	*Madison*
Shaw, Edwin, M.A.	*Milton*
Shaw, Reginald Matheson	*Superior*
Shea, Edward John	*Morrisonville*

Shea, Grace Elizabeth	*Oak Park, Ill.*
Shea, Julia Agatha	*Green Bay*
Sheaff, Bessie Laura, B.S.	*Kansas City, Kan.*
Shearer, Arlie Everette ls	*Marengo, Ill.*
Sheets, Marguerite	*Lakota, N. D.*
Sheldon, Caroline Elizabeth	*Adrian, Mich.*
Sheldon, William Alexander ls	*Lake Geneva*
Sheltman, Emmy Lou ls	*Louisville, Ky.*
Shen, Eugene Ming Shu ls	*Soochow, China*
Shen Jen Pei	*Peking, China*
Shepard, Lulu B.	*Cleveland, Ohio*
Shepard, Winnafred Julia, B.A.	*White Hall, Ill.*
Shepherd, Genevieve Beebe	*Minneapolis, Minn.*
Shepherd, Walter R.	*Platteville*
Sheridan, Helen Margaret	*Chicago, Ill.*
Shield, Jalien a	*St. Louis, Mo.*
Shields, Clyde Morse ls	*Gays Mills*
Shields, Violet Mary	*Black Earth*
Shimizu, Tsuta	*Unomachi, Iyo, Japan*
Schimp, Samuel B.S.	*Uhrichsville, Ohio*
Shipman, Doris Cordelia	*Warren, Ohio*
Shoemaker, Helen Elizabeth	*Cincinnati, Ohio*
Sholts, Mary Eliza	*Middleton*
Shomo, Charles Eugene, Jr.	*Madison*
Short, Robert Truesdale	*Chicago, Ill.*
Short, Victor Bernard ls	*Chicago, Ill.*
Showalter, Forrest P.	*Madison*
Shreffler, Ethel Na Velle ls	*Fremont, Ohio*
Shufelt, Harlan Jeremiah ls	*Madison*
Shufelt, Velra Hutchinson ls	*Madison*
Shuman, Gilman Leslie ls	*Madison*
Shuman, Irene Emily	*Whitewater*
Shumway, Robert Burr	*Milton*
Siebert, Fred Seaton	*Mt. Iron, Minn.*
Siegel, Charles Milton	*Milwaukee*
Siepert, Clara Katherine ls	*Chippewa Falls*
Siewert, Anita, B.A.	*Arlington*
Siljan, Harold Godfrey ls	*Madison*
Sillar, Anne	*Plainfield, Ill.*
Simmons, Catherine Ella ls	*Omaha, Neb.*
Simnicht, Louis Anton	*Mellen*
Simon, Harry ls, m	*New York, N. Y.*
Sinaiko, Edith Elaine ls	*Madison*
Sires, Claire Mildred	*Superior*
Sisson, Dorothy Allison ls	*Madison*
Sister Mary Aimee Maag	*Bloomington, Ill.*
Sister Mary Alicia Giles ls	*Madison*
Sister Marie Cecilia, B.A.	*Madison*
Sister Clare Holmes ls	*Madison*

Sister M. Corona Rohlik	*Carroll, Iowa*
Sister Dorotheus Ryan	*Jackson, Neb.*
Sister Mary Florentinue O'Connor	*Sinsinawa*
Sister Mary Geneveffa Quille	*Sinsinawa*
Sister Mary Gilbert Kelly	*Milwaukee*
Sister M. Gregory Kremer	*La Crosse*
Sister M. Josephine Campagna	*Madison*
Sister Mary Josine	*Madison*
Sister Mary Justinia	*Madison*
Sister Marie Louise	*Madison*
Sister Marion Conway	*Milwaukee*
Sister Mary Verda Lynch	*Sinsinawa*
Sister Mary Victoria Thies, B.S.	*Racine*
Skavlem, Rebecca Janet	*Stoughton*
Skene, James Hay	*Brandon, Manitoba, Canada*
Skiles, Helen	*Virginia, Ill.*
Skiles, Mark Oswell	*Virginia, Ill.*
Skinner, Olive Rowena	*Stevens Point*
Skowlund, William Nelson	*Oshkosh*
Skroch, Roman Sylvester ls	*Whitehall*
Slack, Jeannette Beach	*Bronxville, N. Y.*
Slagg, Venice Edna	*Ft. Atkinson*
Sliwiński, John Alvin	*Oconomowoc*
Sloane, Helen Curtis Phillips	*Bellevue, Pa.*
Sloat, Dorothy	*New York, N. Y.*
Slotten, Rollie M.	*Casey, Iowa*
Smith, Avel Marie	*Crystal Springs, Miss.*
Smith, Dorothy Jane, B.A.	*Akron, Ohio*
Smith, E. Blanche ls	*Madison*
Smith, Ella Louise	*Woodhaven, N. Y.*
Smith, Ethol Esther a	*Reedsburg*
Smith, Eulalia Margaret ls	*Madison*
Smith, Florence Ambrose, B.S.	*St. Louis, Mo.*
Smith, Floyd	*Menasha*
Smith, Floyd John	*Miles City, Mont.*
Smith, Henry Charles, Jr. ls	*Miles City, Mont.*
Smith, Herbert H. ls	*Iron River*
Smith, Janet Elizabeth ls	*Appleton*
Smith, Julia Anna, B.A.	*Kansas City, Mo.*
Smith, Laura Agnes	*Merrill*
Smith, Mae Laura	*Rockford, Ill.*
Smith Marion Irene	*Oconto*
Smith, Reuben Sherman, B.A.	*Grand Rapids, Mich.*
Smith, Theodore Jonathan ls, m	*Tomah*
Smith, Vera ls	*Madison*
Smith, Vinita	*Virginia, Ill.*
Smith, Willella	*College Grove, Tenn.*
Smith, William Stuart	*Appleton*
Snoddy, William Owsley ls	*Glasgow, Ky.*

Snodgrass, George Merrill, Ph.B.	*Superior*
Snoeyenbas, Mabel Lyda	*Baldwin*
Snyder, Grace Opal	*Rockford, Ill.*
Snyder, Wilmot C.	*Kansas City, Mo.*
Solbraa, Burney Arlow ls	*Stoughton*
Soliday Ray Carruthers	*Windsor, Ill.*
Sommer, Arno William ls, m	*Sheboygan*
Sommers, Esther	*Colorado Springs, Col.*
Soper, Elizabeth	*Milwaukee*
Sorensen, Alfred Christian	*Luck*
Sorensen, Norman Oscar ls	*Gillett*
Sorensen, Raymond Joy	*East Ellsworth*
Sorenson, Cora Josephine	*Klevenville*
Southard, Charlotte Almera	*Toledo, Ohio*
Sowers, John Irving	*Vincennes, Ind.*
Spear, Osmund	*Oak Park, Ill.*
Spiering, Eleanore Louise	*Mayville*
Spies, Jacob Alfred ls	*Gillett*
Spindler, Evelyn Bream	*Canton, Ohio*
Spittler, August Wesley ls, m	*Fountain City*
Splitter, Henry Winfred	*Madison*
Sprague, Alice Helen	*Syracuse, Ind.*
Sprain, Adolph W.	*West Salem*
Sprester, Esther Ruth	*Black River Falls*
Sprester, Henry John ls	*Black River Falls*
Springhorn, Rita Katherine ls	*Racine*
Springstein, Elizabeth	*Pana, Ill.*
Spry, Mary Elizabeth	*Ft. Atkinson*
Staab, Alma Mary ls	*Wall Lake, Iowa*
Stacker, Leonard Frederick	*Neenah*
Stafford, Nell Thornton	*Kansas City, Mo.*
Stahl, Dollie, B.A.	*Sterling, Kan.*
Stahlkopf, Elmer Carl	*Horicon*
Staley, Harry Ralph	*Carthage, Mo.*
Stam, Ira Webster	*Green Lake*
Standiford, Ifa Dorau ls	*Wilton*
Stansell, Sarah Jane, B.A.	*Chattanoga, Tenn.*
Starbuck, Ludo B.	*Davenport, Iowa*
Stark, Charlotte Harrison	*Mansfield, Ohio*
Starkey, Roscoe Milton	*Richland Center*
Staton, Lucile, B.A.	*Marshall, Mo.*
Statz, Vita Marie	*Madison*
Statzell, Harlan Page	*Lansdowne, Pa.*
Stearns, Dana Preston, B.S.	*Mason City, Iowa*
Stearns, Marguerite Mary	*Evanston, Ill.*
Steenberg, David Knox ls	*Madison*
Steensland, Otis Aubrey ls	*Blanchardville*
Steffeck, Lillien Josephine	*Medford*
Stegeman, Albert Vinton, Jr. ls	*Ft. Thomas, Ky.*

Stegeman, Frank P. ls	*Ft. Thomas, Ky.*
Stehn, Florence Clarke ls	*Madison*
Steinmetz, Anna Mary	*Dubuque, Iowa*
Steimle, John Michael	*Atlantic Mine, Mich.*
Stenjem, Dorothy Marie ls	*Madison*
Stephan, Gertrude Henrietta, B.A.	*Holland, Mich.*
Sterling, William Hugh	*Oshkosh*
Stetson, Marjorie Frances, B.A.	*Lake Mills*
Steve, Fannie Mason	*Madison*
Stevens, Elsie Josephine	*Kenosha*
Stevens, George Thomas, Jr.	*Framingham, Mass.*
Stevens, Henry Weed	*Appleton*
Stevning, Emma Gertrude	*Stephen, Minn.*
Stewart, Georgia Marian	*Westfield, N. J.*
Stillman, Eleanor Louden	*Vermillion, S. D.*
Stillman, Jay Howard ls	*Madison*
Stipek, Raymond J. ls	*Glendive, Mont.*
Stiver, Michael LaMar ls	*Goshen, Ind.*
Stivers, Grace Helen	*Dayton, Ohio*
Stock, Charles A.	*Odell, Ill.*
Stoddard, Neal Henry	*Downing*
Stoker, Ruth Elizabeth ls	*Winnetka, Ill.*
Stompe, Albert Weenink	*Chicago, Ill.*
Stondall, Alice Mandt ls	*Madison*
Stone, Edith Elizabeth	*Waupun*
Stone, Genevieve C. ls	*Peoria, Ill.*
Stone, Helen ls	*Deer Lodge, Mont.*
Stone, May Pearl	*Indianapolis, Ind.*
Stone, Rosemary ls	*Saginaw, Mich.*
Stoneman, Erle John	*Platteville*
Stoops, Dorothy Abigail ls	*Nappanee, Ind.*
Story, Mayo ls	*Bozeman, Mont.*
Storzbach, Helena Marie	*Plainfield*
Stott, Ruth Lynden	*Hayward*
Stout, Ina Dell, B.A.	*Mooresville, Ind.*
Straagaard, Besse Warren	*Crescent City, Ill.*
Straagaard, J. N.	*Crescent City, Ill.*
Strader, Ula Kathryn ls	*Monroe*
Strain, Marion Elven ls	*Madison*
Strande, Avice Marie ls	*Elroy*
Strauss, Caryl Louise	*Gibson City, Ill.*
Strauss, Dorothy Minetta ls	*Madison*
Streuli, Elsie Margaret	*Union Grove*
Strom, George Arthur ls	*White Creek*
Strong Lorin David	*Lake Mills*
Strubbe, Margaret Elizabeth	*Chicago, Ill.*
Strubbe, Mildred	*Chicago, Ill.*
Sturgeon, Josephine Margaret	*El Paso, Ill.*
Stuve, Manley Gilbert ls	*Humbird*

Suchomil, Minna Elizabeth	*Jefferson*
Suckern, Lillie Emelea ls	*Manitowoc*
Suess, Elisabeth Clara ls	*Negaunee, Mich.*
Sullivan, Agnes Dolores	*Kansas City, Mo.*
Sullivan, Anna	*Appleton*
Sullivan, Robert Charles ls	*Madison*
Sullivan, Samuel John ls, m	*Madison*
Sullivan, William Johnstone, B.A.	*Duluth, Minn.*
Sullivan, Willis Gregory ls	*Hurley*
Summers, Beatrice	*Hurley*
Sumner, Willard Carlyle ls, m	*Madison*
Sumnicht, Louise	*Columbus*
Sun, Tsing-faung Alfred ls	*Shanghai, China*
Sundt, Guy Merrill	*Stoughton*
Sutherd, Calvin Eugene	*Westville, Ill.*
Suttle, Henry McKie, B.A.	*Viroqua*
Sutton, Alice Elizabeth	*Janesville*
Sutton, James Wynne ls	*Peoria, Ill.*
Swancutt, Ivan Leroy ls	*Viola*
Swanson, Ida Christine	*Marinette*
Swayzee, Lucile, B.A.	*Des Moines, Iowa*
Swenson, Rudolph Emil	*Minneapolis, Minn.*
Swigart, Marian ls	*Clinton, Ill.*
Swiggum, Mary Elmira	*Blanchardville*
Symes, John Harold	*Blooming Prairie, Minn.*
Syster, Ruth Isabelle, B.A.	*Hiawatha, Kan.*
Talley, Robert B. ls	*Terre Haute, Ind.*
Tanghe, Edward F., B.S.	*Milwaukee*
Tangney, Homer Francis	*Kilbourn*
Tannenbaum, Herman	*New York, N. Y.*
Tanner, Virginia Scott	*Jackson, Mich.*
Tasche, John Augustus	*Sheboygan*
Taugher, Claude Buckley, LL.B.	*Marathon City*
Taugher, Mary Blanche	*Vincennes, Ind,*
Taylor, Ada Bernice	*Aurora, Ill.*
Taylor, Adeline Olcott	*La Crosse*
Taylor, Frances Elizabeth, B.A.	*Kansas City, Mo.*
Taylor, Guy Baker, Ph.D.	*Wilmington, Del.*
Taylor, Harold Patrick ls	*Ashland*
Taylor, Mary Ella	*Washington, D. C.*
Taylor, Mildred Neaera	*Cleveland, Ohio*
Taylor, Palmer William ls	*Stevens Point*
Taylor, Sarah Ellen	*Superior*
Taylor, Wanda Faulds	*Black River Falls*
Tenney, Bernice Estelle	*Geneva, Ohio*
Terrell, Mabel Ione, B.A.	*Holton, Kan.*
Terwedo, Viola Evalina	*Oshkosh*
Teske, Charles Ferdinand	*Luxemburg*
Theis, Ethel Anna	*Minier, Ill.*

Theisen, Harold Joseph ls	*Slinger*
Theiss, Marcella Anna	*Cincinnati, Ohio*
Thixton, Ada B.	*Louisville, Ky.*
Thomas, Eugene Shorb	*Washington, D. C.*
Thomas, Frances Ormsby, B.A.	*Chicago, Ill.*
Thomas, James Roy	*Loyal*
Thomas, Jessie Violet	*Terre Haute, Ind.*
Thomas N. Catherine	*Dunkirk, Ind.*
Thomas, Warren Stratman ls	*Minneapolis, Minn.*
Thompson, Albert Wheeler ls	*Milwaukee*
Thompson, Clement Francis	*Louisville, Ky.*
Thompson, Bertha V.	*Argyle*
Thompson, Dorothy Marguerite	*Madison*
Thompson, Francis Henry	*Edgerton*
Thompson, Gilman Alfred, B.S.	*Mt. Horeb*
Thompson, Helen Mildred, B.S.	*Galesburg, Ill.*
Thompson, Irene	*Superior*
Thompson, Lavinia Huff	*Madison*
Thompson, Margaret Eunice	*West Point, Neb.*
Thompson, Mary Fishbyrne	*Elmwood*
Thompson, Matilda Beatrice, B.S.	*Fargo, N. D.*
Thompson, Roland Lewis, M.D.	*Elroy*
Thomson, Ruth Emogene	*Hancock*
Thomson, Melvin Thelmer	*River Falls*
Thomson, Stewart Craig	*Byron, Ill.*
Thorpe, Reed ls	*Salt Lake City, Utah*
Thorson, Harvey Allan	*Hawkins*
Thorson, Sidney Reuben ls	*Madison*
Thrapp, John Carson	*Milwaukee*
Thulin, Alice Christine	*Alpha, Ill.*
Thull, Margaret Cecilia	*Marinette*
Thurston, Irene Belle	*Marion, Ohio*
Thurston, Katharine Eloise, B.A.	*Oberlin, Ohio*
Tigay, Clara Deborah ls, m	*Madison*
Tilbury, Sadie Cora	*Zion, Ill.*
Tilford, Edgar Lockhart ls	*Martinsville, Ind.*
Timbers, Margaret Alice	*Mauston*
Timm, Ernie	*Milwaukee*
Timmons, Catherine	*Monroe*
Timmons, Elizabeth	*Monroe*
Titus, Marjorie M. ls	*Fond du Lac*
Tobias, Vivian Goldman	*Madison*
Tochterman, Alta Mina	*Monroe*
Todd, Leona Mae	*Clifton, Ill.*
Tolerton, Robert Isreal	*Alliance, Ohio*
Toner, Mary Cecele	*St. Paul, Minn.*
Tonge, Mildred, B.A.	*Lancashire, England*
Toplon, Beatrice Dorothy ls	*Wausau*
Torrent, Lewis L.	*Muskegon, Mich.*

Torrison, Agnes Inanda	*Chicago, Ill.*
Toser, Marie Antoinette	*Milwaukee*
Tourtelotte, Bessie Genevra, M.A.	*Tabor, Iowa*
Townsend, Grace Christine ls	*Poynette*
Townsend, Mary Jeanette	*Poynette*
Trachte, Leonard N. ls	*Madison*
Traut, Minnie Esther	*Edmore, Mich.*
Trayser, Don G. ls	*New London*
Treat, Frank Morris	*Madison*
Tressler, Willis Lalanner ls, m	*Madison*
Troemel, Ernestine Anna ls	*Madison*
Trolander, N. Evelyn	*Alborn, Minn.*
Trott, Harry Louis, B.S.	*Mountain*
Trowbridge, Marguerite Hazel	*Beaver Dam*
Truesdale, James William	*New York, N. Y.*
Tsai, Eaton Kung Chun	*Foochow City, China*
Tucker, Albert Belman ls	*Wilmette, Ill.*
Tucker, Page, B.A.	*Atlanta, Ga.*
Tudor, Edward Orin	*Lake Forest, Ill.*
Tufts, Kathrin Marie	*Eau Claire*
Tuhtar, Eugene William ls	*Milwaukee*
Turnbull, Ida Caroline, B.A.	*Carlinville, Ill.*
Turner, Harriet Pauline ls	*Kewaunee, Ill.*
Tweed, Erma Russell, B.A.	*Kansas City, Mo.*
Twyman, Carolyn, B.A.	*Kansas City, Mo.*
Tyner, Ruth ls	*Wabash, Ind.*
Ulbricht, Vera Minna	*St. Louis, Mo.*
Ullmann, Doris ls	*Elmhurst, Ill.*
Umbreit, Florence Lillian, B.A.	*Naperville, Ill.*
Unseth, Helen Laura	*Chicago, Ill.*
Upton, Mildred	*Louisville, Ky.*
Urch, Mildred Louise	*Aurora, Ill.*
Usher, Frederick R.	*Stoughton*
Uthoff, Elfriede A., B.A.	*St. Louis, Mo.*
Valinske, Cora C. ls	*Fox Lake*
Valle, Reuben Gabriel	*Rio Grande City, Tex.*
Van Altena, James Allen	*Milwaukee*
Van Cleave, Melba	*St. Louis, Mo.*
Vander Laan, C. Dorothea, Ph.B.	*Muskegon, Mich.*
Van Ingen, Marie Marcella Coates, B.L.	*College Springs, Iowa*
Van Sickle, Robert William, B.S.	*Frankfort, Ind.*
Vansteenberg, Victor ls	*Madison*
Van Wagener, James Henry ls	*Madison*
Van Winter, Carl B. ls	*Madison*
Varnell, Eva Catherine	*Baraboo*
Varney, Norma Helen	*Kansas City, Mo.*
Vaughan, Edith Caroline ls	*Amboy, Ill.*
Vaughn, Oscar Franklin	*Coatesville, Ind.*

Vaughn, Shirley Louise	*Milwaukee*
Vega, Emma Louise dela	*Omaha, Neb.*
Veley, Della Mae	*Butler, Ind.*
Venter, Vernal Faye	*El Dorado Springs, Mo.*
Verbeck, Norma Irene	*Lodi*
Vernon, Chester G., B.S.	*Raymond, Ill.*
Vernon, Mabel Dorothy, Ph.B.	*Madison*
Vernon, Pearl Lee	*Raymond, Ill.*
Vetter, Francis A.	*Fond du Lac*
Vetter, Gerhart Fredrick	*Stevens Point*
Vickers, Jeannette, B.A.	*New Orleans, La.*
Vickers, Sadie Earl B.A.	*New Orleans, La.*
Voegtle, Anna, M.A.	*Louisville, Ky.*
Voit, Bertha A., B.S.	*St. Louis, Mo.*
Volk, Ruth Katherine, B.A.	*Cleveland, Ohio*
Vollmer, Luella	*Alma*
Vosburg, Mary Jeanette ls	*Ft. Atkinson*
Voskuil, Harmon, B.A.	*Oostburg*
Vrooman, Maude Ogilvie	*Detroit, Mich.*
Wade, Helen Ruth	*Merrill*
Wade, Myra Isabella, B.A.	*Oak Park, Ill.*
Wagenbreth, Jean Catherine	*Madison*
Wagenbreth, William Herman	*Madison*
Wagenman, Ira Melvin, B.A.	*Bisbee, N. D.*
Wagner, Alma Cecelia	*Girard, Ill.*
Wagner, Grace	*Dravosburg, Pa.*
Wagner, Graydon Clifford	*Whitewater*
Wagner, William Max	*Cincinnati, Ohio*
Waite, Fanny Maud	*Beloit*
Wakefield, John Myron, B.A.	*Waterman, Cal.*
Wald, Arthur ls	*Republic, Mich.*
Walecka, John Alois	*Denmark*
Wales, Althea	*Lanark, Ill.*
Walker, Mary, B.A.	*Ridgwood, N. J.*
Walker, Howard McKinley ls, m	*Madison*
Walker, Katherine Maria	*Madison*
Walker, Mary Long	*Kansas City, Mo.*
Walker, Robert Arlo	*Madison*
Walker, Venus Victoria ls	*Wayne, Mich.*
Wall, Marie Jane	*Antigo*
Wallace, Coy Amanda	*Kansas City, Mo.*
Wallace, Letitia Agnes	*Cleveland, Ohio*
Waller, Pauline	*Washington, Ind.*
Wallesz, Selma	*Milwaukee*
Wallis, Samuel Reasin ls	*Mitchell, S. D.*
Wallis, Vera Mae	*Caro, Mich.*
Walmsley, Evelyn Metcalf, M.A.	*Milwaukee*
Walsh, Helen Marie	*Indianapolis, Ind.*
Walsh, Katharine Terese	*Hartford*

Walther, Kathryn Magdalene	*Milwaukee*
Walvoord, John Garret	*Sheboygan*
Wang, Chi-Chen ls	*Shantung, China*
Wangenstein, Victor Carl ls	*Duluth, Minn.*
Wanzer, Gordon Bradley ls	*Chicago, Ill.*
Ward, Gilbert Emanuel	*Fond du Lac*
Ward, Lavilla Amelia	*Davenport, Iowa*
Wardwell, Mable Grace	*Cambridge*
Ware, Clara	*Wichita, Kan.*
Warner, Eugene Eliot	*Whitewater*
Warner, Stanley Carlton	*Whitewater*
Warnock, Elizabeth, B.A.	*Ripon*
Wartinbee, D. Russell	*La Crosse*
Washburn, Eliza Jane	*Columbus, Ohio*
Washbush, Arnold Anthony ls	*Fond du Lac*
Wasserman, Mildred	*Milwaukee*
Wasserman, Mildred Ruth	*Sheboygan*
Waterman, Frances Dorothy	*Menomonie*
Waterman, Irl Lloyd ls	*Suring*
Waters, Everett Elwin	*Cornell*
Waters, Gladys Evelyn	*Cornell*
Watson, Claude Evans	*Livingston*
Watson, Frank Rundell	*Livingston*
Watson, James Torrence ls	*St. Louis, Mo.*
Watt, Lois Mary	*Chicago, Ill.*
Watts, Anna Lyle	*Hindsboro, Ill.*
Weaver, Mary Katharine	*Greensburg, Ind.*
Weaver, Mossie Goldie	*South Bend, Ind.*
Webb, Florence Evans, B.A.	*Lake Mills*
Weber, Sarah Katherine	*Superior, Ariz.*
Webster, Bell Valentine	*Oakfield*
Webster, Thales Albinus	*Roberts*
Wedge, Isabelle Merrick	*St. Louis, Mo.*
Wegel, Ethel Lucille ls	*Fond du Lac*
Weidman, Mary Elizabeth	*Parkersburg, W. Va.*
Weier, Florence Louise	*Kewaunee*
Weiland, Louis Emil	*Westfield*
Weimar, Clara Wilhelmina	*La Crosse*
Weimer, Dorothy Gertrude	*St. Albans, W. Va.*
Weinhoff, John Francis	*New Lisbon*
Weiss, F. Marie, B.S.	*Madison*
Weiss, Helen Catherine, B.A.	*Madison*
Weiss, Ruth Helene Orr, B.A.	*Orrville, Ohio*
Weix, Celia Marie	*Colby*
Welch, Mattie Eula	*Akron, Ohio*
Wellers, Emma Almeda	*Platteville*
Wells, Alberta	*Marissa, Ill.*
Wells, Charles Lucien ls	*Platteville*
Wells, Grace Eleanor	*Marissa, Ill.*

Wells, James Hutchison	*Evanston, Ill.*
Wells, Marian E. ls	*Portage*
Welty, Lois, M.A.	*St. Joseph, Mo.*
Wendell, Gertrude	*Pasadena, Cal.*
Wenisch, Elfride Ilse	*Chicago, Ill.*
Werrell, Charles Joseph	*Mondovi*
Werrell, William Alexander ls m	*Janesville*
West, Katherine Fulton	*Rice Lake*
West, Miriam Esther, M.A.	*Milton Junction*
West, Ruth Wyllys	*San Antonio, Tex.*
West, Stella Hardie	*Uniontown, Ala.*
Wettstein, Pauline Louise, B.M.	*Trenton, Mo.*
Whalen, Grace Allen	*Winona, Minn.*
Whalen, Lillian Catherine	*Kansas City, Mo.*
Whaley, Katherine	*Hannibal, Mo.*
Wharton, Virginia Poole	*Stoughton*
Wheeler, Helen Anna ls	*Columbus*
Wheeler, Julius Moran ls	*Menasha*
Wheeler, Myrtle Evelyn	*Burlington*
Whellihan, Harriot ls	*Necedah*
Whitaker, Elisazeth Corey,B.A.	*Dravosburg, Pa.*
Whitaker, Elroy Howard	*Madison*
Whitaker, Sarah Hyde	*Granville, Ill.*
White, Alice Amelia	*Madison*
White, Alta Grace	*Mabel, Minn.*
White, Annie Laurie	*Lewisburg, W. Va.*
White, Carmen Adell ls	*Madison*
White, Katharine Frances	*Algoma*
White, Mary Jane, B.A.	*Morgantown, W. Va.*
Whitehead, Louise Woodford	*Evanston, Ill.*
Whitelaw, Margaret Babbitt, B.A.	*Beloit*
Whitmer, Abraham Lincoln M.A.	*Rochester, Ind.*
Whitney, Elinor	*Kansas City, Mo.*
Whitney, Inez Jane	*Stevens Point*
Whitney, Jennie Merrill	*Kansas City, Mo.*
Whitney, Maude Henrietta	*Stevens Point*
Whitson, Merritt Braydon ls	*Madison*
Wickham, Mal, B.A.	*Iron Mountain, Mich.*
Wiedenbeck, Frances Theodora ls	*Madison*
Wienbergen, Eva Huntington	*Platteville*
Wienbergen, Harry Jacob	*Platteville*
Wiese, Max Edward	*Fresno, Cal.*
Wieslander, Lillian ls	*Ashland*
Wightman, Beatrice Myrtle	*Superior*
Wik, Myrtle Agnes	*Bantry, N. D.*
Wild, Agnes Katherine, B.A.	*Baltimore, Md.*
Wild, Monica Rosina, B.A.	*Cedar Falls, Iowa*
Wildman, Holder Borden	*New Haven, Conn.*
Wiley, Effie Lee, B.A.	*Madison*

Wiley, Harley Beal	*Hancock*
Wilkins, Anna Louise	*Erie, Pa.*
Wilkins, Robert Alvin	*Livingston*
Wilkinson, Ralph Burleigh, B.S.	*Methuen, Mass.*
Will, Robert James	*Waukesha*
Willard, Henry Matthew ls	*Stoughton*
Willegala, Rosella Mary	*Juneau*
Willey, Howard Elsworth ls, m	*Lake Mills*
Williams, Ethel, B.A.	*Milwaukee*
	Madison
Williams, Ida Caroline	*Nekoosa*
Williams, John Burr,B.S.	*Hartford, Conn.*
Williams, Leland Wolcott ls	*Bear Creek*
Williams, Leonard R.	*Cambria*
Williams, Mary Catherine ls	*Madison*
Williams, May O.	*Milwaukee*
Williams, Mildred Martha	*Cleveland, Ohio*
Williams, Myrtle Tylene	*Dexter, Mo.*
Williams, Pauline	*Hartford, Conn.*
Williamson, Jennie	*Louisville, Ky.*
Williford, Elizabeth Montague, Ph.B.	*Memphis, Tenn.*
Wilms, Minnie Hannah	*Petersburg, Ill.*
Wilson, Agnes Edna	*Madison*
Wilson, Ardelle	*Grand Rapids, Mich.*
Wilson, Erma Zallella	*Muscoda*
Wilson, George Alvin ls	*Madison*
Wilson, Jose Dimmick	*Montgomery, Ala.*
Wilson, Kathryn	*New London*
Wilson, Maurice Clement, B.S.	*Waynesville, N. C.*
Wilson, Rowena Angie	*Portland, Ind.*
Wilson, Theora May	*Cambridge, Ohio*
Wilson, Vera Gabrielle	*Portland, Ind.*
Winchell, Alexander Vaughn ls	*Madison*
Winder, Rulura Tostevin	*Madison*
Wing, Dorothy A.	*Murphysboro, Ill.*
Winslow, Edith Johnson, B.L.	*Ft. Wayne, Ind.*
Winston, Woody Maurice, B.A.	*Chicago, Ill.*
Wirig, Marres Harold ls, m	*Antigo*
Wiseman, Charles Herbert	*Des Moines, Iowa*
Wiswall, Zilla Elizabeth	*Madison*
Witeck, John Francis	*Oconto*
Wittenberg, Wilber William ls	*Milwaukee*
Wittler, Lawrence H.	*Amboy, Ill.*
Wohlwend, Mollie Elizabeth	*Salt Lake City, Utah*
Wold, Orin W. ls	*Minneapolis, Minn.*
Woldenberg, Rose Lillian	*Madison*
Wolf, Clifford Robert	*Milwaukee*
Wolf, Katie Robertson ls	*Madison*
Wolfert, Agnes Catherine ls	*Lena*

Wolk, Leanora Aldene	*El Paso, Ill.*
Wolters, Joseph Theodore ls	*Two Rivers*
Woltring, Marie	*Milwaukee*
Wolworth, Grace Chrystal	*Madison*
Wood, Frank Blaine	*Granton*
Wood, Harry Thomas, B.A.	*Hennepin, Ill.*
Wood, Humphrey Farmer ls	*Batavia, N. Y.*
Wood, Iva Justine	*Richland Center*
Wood, Jessie Catherine	*Sheboygan*
Wood, Julia Eliza	*Paris, Ill.*
Wood, Lila Ervilla	*Ripon*
Wood, Robert William	*Oshkosh*
Wood, Sarah Catherine	*Jacksonville, Ill.*
Wood, Sarah Frances	*Jacksonville, Ill.*
Wood, Willis 1	*Appleton*
Woodmansee, Buryl Shannon	*Converse, Ind.*
Woods, Carolyn Louise ls	*Madison*
Woods, Daniel L. ls, m	*Madison*
Woods, Ethel Margaret	*Cleveland, Ohio*
Woodward, Alda Jane, B.A.	*Uniondale, Ind.*
Wordelman, Frieda R.	*Sioux Falls, S. D.*
Worley, Maude Marion	*South Bend, Ind.*
Woulfe, Catherine Monica	*Chicago, Ill.*
Wrenchey, Laura Catherine, B.A.	*Kingman, Kan.*
Wright, Burchard Updyke	*Yonker's, N. Y.*
Wright, Mildred Virginia	*Webster Groves, Mo.*
Wright, Paul Mead	*Orange, Conn.*
Wulk, Bernard Herbert	*Marion*
Wurdack, Mary Elvira, M.S.	*Columbus, Ohio*
Wyant, Richard M., B.D.	*Waterloo, Iowa*
Wyckoff, Edward Horatio	*Alton, Ill.*
Wyckoff, Rodgers Lemen	*Alton, Ill.*
Wyland, Elizabeth, B.A.	*Harlan, Iowa*
Yager, Cora May	*Chicago, Ill.*
Yahr, Mayme Louise ls	*Unity*
Yates, Edith Oresta, B.A.	*Des Moines, Iowa*
Yauney, Sarah Ella	*Sylacauga, Ala.*
Young, Adelbert Jacob ls	*Colby*
Young, Arthur Raymond, B.A.	*Wichita, Kan.*
Young, Mary Brahan ls	*Memphis, Tenn.*
Zak, Albert, B.A.	*Angus, Minn.*
Zander, Mercedes Frances ls	*Two Rivers*
Zarne, Alfred	*Milwaukee*
Zartman, William	*Freeport, Ill.*
Zassenhaus, Mary	*Milwaukee*
Zaturensky, Marya ls	*Madison*
Zeigler, William James, B.A.	*Chicago, Ill.*
Zeismer, Arthur, B.A.	*Lena*
Zeman, Helen Jayne	*Chicago, Ill.*

Zeman, Laurette	*Chicago, Ill.*
Zenk, Martha	*Milwaukee*
Zeler, Mary Louise	*Plymouth*
Ziegelman, Gregor David	*Watertown*
Ziemann, Theodore W.	*Bloomer*
Zieske, Adelaide Alice ls	*Madison*
Ziestlow, Carl Frederick, B.A.	*Norwalk*
Zimmer, Verona Louise	*Kansas City, Mo.*
Zimmerer, John George	*Wausau*
Zimmerman, Harold Charles	*Pardeeville*
Zimmerman, Marguerite Marie	*Kansas City, Mo.*
Zimmerman, Pearl Lucille	*Oakland, Ill.*
Zimmerman, Ruby Camille, B.A.	*Oakland, Ill.*
Zimmerman, Sara Belle	*Enon Valley, Pa.*
Zimmermann, Felix Herman ls, m	*Watertown*
Zimmermann, Florence Susanna ls	*Peoria, Ill.*
Zimmermann, Gerhard Edmund	*Sheboygan*
Zinns, Charlotte Emilie	*Milwaukee*
Zinns, Ilma	*Milwaukee*
Zook, Mary May	*St. Louis, Mo.*
Zorn, Marian Vera	*De Soto, Mo.*

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Music

Ashbaucher, Hermina Eliza	*Bluffton, Ind.*
Bergeson, Flora A.	*Decorah, Iowa*
Biehm, Gertrude Emily	*Racine*
Brigham, Nira Hattie, B.A.	*Council Grove, Kan.*
Carey, Lulu Helen	*Argyle*
Christner, Mary Genevieve	*Rosemond, Ill.*
Clarke, Harriet Marie	*Waunakee*
De Lano, Forrest Pearl	*Kewanee, Ill.*
Duncan, Erma Leona mu	*Madison*
Estvad, Rigmor Christensen	*Madison*
Feist, Agnes Anna	*Coloma*
Fish, Evelyn H.	*Madison*
Flanagan, Gertrude Thresa	*Madison*
Flitcroft, Grace A.	*Paterson, N. J.*
Fronk, Irene	*Spring Green*
Glau, Leone Claire mu	*Charter Oak, Iowa*
Hall, Ella Ann	*El Paso, Ill.*
Haller, Mary Ruth	*Ft. Wayne, Ind.*
Hanson, Alice Mathilda	*Waukegan, Ill.*
Horton, Jeannette Jane	*Wyandotte, Mich.*
Huston, Lavina Catharine	*Viola*
Jones, Grace Mildred mu	*Yonkers, N. Y.*
Jones, Lucine Elizabeth	*Madison*
Klovstad, Marie mu	*Port Wing*

Levin, Esther Irene	*Wisconsin Rapids*
Maye, Kathleen Lyla	*New York, N. P.*
Messinger, Edwin Dorrance	*Highland Park, Ill.*
Metcalf, Leon Vinnedge mu	*Stanley*
Miller, Roy Carl mu	*Madison*
Neidhardt, Sarah Wilder, B.A.	*Rockford, Ill.*
Nelson, Gladys Irene	*Neodesha Kan.*
Nelson, Myrtle Emma	*Oneida, Ill.*
Norlander, Ella Victoria	*Kenosha*
Oldridge, Erle Leslie	*Madison*
O'Malley, Anne Louise	*Chicago, Ill.*
O'Reilly, Dorothy	*Chicago, Ill.*
Orvald, Olive Marguerite	*Superior*
Owens, David Franklin, B.A.	*Rochester, Minn.*
Palmer, Mabel	*Columbus*
Perham, Beatrice Minerva	*Sparta*
Peters, Hilda Elsie	*Milwaukee*
Peterson, Mabel Nellie mu	*Florence*
Powers, Catherine	*Racine*
Purtell, Jessie Margarite	*Madison*
Reid, Katharine Calvert mu	*Wellsburg, W. Va.*
Rice, Edna J., B.A.	*Siloam Springs, Ark.*
Rice, Florence Warren	*Nebraska City, Neb.*
Roberts, Bertha Porter	*Rockford, Ill.*
Ryan, Marion E., M.A. mu	*Wausau*
Ryan, Winefrid mu	*Wausau*
Scott, Lucile Achsah	*Maywood, Ill.*
Sister Mary Aquin Trobec	*Marinette*
Smith, Carolyn Alice	*Iowa Falls, Iowa*
Sprester, Marjorie Marie	*Black River Falls*
Stauber, Vlasta June	*Milwaukee*
Thompson, Coroll B.	*Mondovi*
Toftoy, Aslang	*Madison*
Watkins, Dorothea Fern	*Terre Haute, Ind.*
Weimer, Luella Mary	*Muncie, Ind.*
Weltin, Ione Bernice	*Aurora, Ill.*
Williams, Marian Sherman	*Marinette*
Wilson, Evelyn Gertrude mu	*Superior*
Young, Lela	*Guthrie Center, Iowa*

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Agriculture

Adams, John William, M.A.	*Galesburg, Ill.*
Allen, Inez Teare	*Waukesha*
Allison, Andrew Beardsley	*Durand*
Ames, Gertrude Helen	*Stephenson, Mich.*
Amory, Thomas Chace ls	*Walpole, N. H.*
Anderson, Anna Bishop	*Tucson, Ariz.*

Apker, James Wert	*Wonewoc*
Armstrong, Minnie Myrtis, B.S.	*Denton, Tex.*
Bailey, Charlotte, B.S.	*La Plata, Mo.*
Baldwin, Harold Carlyle, B.S.	*Madison*
Beach, Lloyd Elli	*Ravinia, Ill.*
Beadle, Joseph Orlo	*Millville*
Beatty, Alice Cotton a	*Birmingham, Ala.*
Becker, Eugenia Elizabeth	*Louisville, Ky.*
Beckus, Singhild Elenne	*Beloit*
Beebe, Louise a	*Sparta*
Bennett, Lulah Grace, B.A.	*Chariton, Iowa*
Benson, Irving Milton a	*Iola*
Berning, Mildred Sophia a	*Reedsburg*
Biddick, Eugene Harlan	*Livingston*
Black, Mary Ann, B.S.	*Oklahoma City, Okla.*
Buckley, Helen, B.S.	*Richmond, Ind.*
Burchfiel, Ora Bell	*Oklahoma City, Okla.*
Burkman, Ruth Bessie	*Roscoe, Ill.*
Buse, Leslie August a	*Beloit*
Campbell, G. Lucille, B.S.	*Madison*
Campbell, John Roy, M.S.	*Bozeman, Mont.*
Carew, Alvin Dennis a	*Madison*
Carey, Cornelia Lee, Ph.D.	*West Orange, N. J.*
Carlson, Ellen Mathilda	*Marinette*
Carroll, Mary Margaret a	*Oconto*
Chang, Chi-Chung	*Peking, China*
Chu, Tso Yung a	*Hankow, China*
Clendaniel, George Watson, B.S.	*Clarsville, Md.*
Clinton, Evva Elizabeth a	*Menasha*
Cobb, Helen Elizabeth a	*Ft. Scott, Kan.*
Coleman, Harriet Corinne	*Palmyra, Ill.*
Cooper, Austin A. a	*Dubuque, Iowa*
Copeland, Lynn, M.S.	*Hutchinson, Kan.*
Coughlin, Anna Margaret	*Madison*
Coyte, Sylvia Florence	*Chicago, Ill.*
Cravens, Mrs. C. C., B.S.	*Gleason, Tenn.*
Cravens, Mary	*Bloomfield, Ind.*
Cretney, Helen E. a	*Madison*
Crotty, Ruth Meredith	*Milwaukee*
Culler, Vesta Marie	*Springfield, Mo.*
Cummings, Cladys	*Lambert, Mont.*
Cutler, Garnet Homer, B.S.	*Edmonton, Alberta, Canada*
Davis, Archie Clyde	*Platteville*
Davis, Ida Isabel	*Bridgeport, Ohio*
Davis, Maybelle Laura	*Melrose*
Davy, Adeline Helen a	*Madison*
Davy, Leita a	*Rochester, N. Y.*
De Vries, Arnold John	*Madison*
Dine, Volunta Anna Is	*Minster, Ohio*

Dohrmann, Minnie Mae	*Mt. Union, Iowa*
Doud, Bessie Veda	*Chattanooga, Tenn.*
Duffy, Elizabeth Mary	*Akron, Ohio*
Dvorak, Eunice Margaret a	*Milwaukee*
Earley, Brant, B.S.	*Mt. Gilead, Ohio*
Elliot, Sadie Marie	*Coffeyville, Kan.*
Ellis, Crawford Raa	*Endeavor*
Emmert, Hazel Margaret	*Madison*
Erskine, Leone Schmidt a	*Forestville*
Faris, Nina Charlotte a	*Danville, Ill.*
Fay, Ivan G.	*Hayward*
Feeney, Ruth Mary a	*Madison*
Felix, Miriam Mary	*Prairie du Sac*
Fenimore, Blanche Hampton	*Economy, Ind.*
Fish, Laurens Brainerd a	*Webster Groves, Mo.*
Fisher, Cathryn, B.A.	*Lake Beulah*
FitzGerald, Madonna, B.S.	*El Reno, Okla.*
Flanagan, Leanore Mary	*Chicago, Ill.*
Ford, Thomas Howard a	*Livermore, Ky.*
Fowler, Florence Kathryn	*Watsontown, Pa.*
Frazier, Ethel C. Lehman, B.A.	*Norwalk*
Fritschel, Roland G. a	*Milwaukee*
Fuss, Neva Lucile, B.A.	*Hedgesville, W. Va.*
Fusz, Elizabeth Agnes	*St. Louis, Mo.*
Fusz, Marie Reine	*St. Louis, Mo.*
Gann, Murl, B.S.	*Springfield, Mo.*
Garber, La Von	*No. Manchtster, Ind.*
Gentry, Madge L.	*Rockport, Ind.*
Gordon, Arthur Ernest	*Nelsonville*
Gordon, Jessie Chrystal	*Hinsdale, Ill.*
Gorman, David Harold a	*Madison*
Gramling, Henry Jason a	*Milwaukee*
Grishaw, Ruth Campbell	*Tipton, Ind.*
Habernicht, Matilda Charlotte a	*Wauwatosa*
Habhegger, Marian Katherine a	*Milwaukee*
Hagen, Stella Hildur	*Westby*
Hall, Aileen Ella	*Winnipeg, Manitoba, Canada*
Halphide, Eunice May	*Menomonie*
Haney, Merwyn Augustin	*Sparta*
Hanna, Ida Evelyne, B.A.	*Waverly, Kan.*
Hansen, Ellen Marie a	*Neenah*
Harman, Helen Margaret, B.S.	*Madison*
Harrison, Virginia Frances	*DeKalb, Ill.*
Hartman, William Albert	*Madison*
Heggestad, Ernest J. a g	*Hollandale*
Henrikson, Mabel Gretchen	*Kirkwood, Ill.*
Herpich, Arno a	*Thiensville*
Hessel, Leonora Mae	*Kearney, Mo.*
Higgie, Beatrice Eugenia	*Racine*

Hill, Vivian	*Dewitt, Iowa*
Hinshaw, Lyla Ruth	*Ladysmith*
Hoch, Mildred Lillian, B.S.	*Oak Park, Ill.*
Holt, Jean Botsford	*Milwaukee*
Holzbog, Walter Charles	*Wauwatosa*
Honeywell, Edna Mildred g	*St. Louis, Mo.*
Hudgens, Elsia Alela, B.A.	*Johnston City, Ill.*
Hunt, Jean Margaret, B.A.	*Seattle, Wash.*
Iverson, Clarence Fred a	*Kenosha*
Jacobs, Ruth Kathryn a	*Stevens Point*
Janssen, Pearl Elizabeth, B.S.	*Madison*
Jenny, Gerald a	*Milwaukee*
Jewell, Eleanor Mary	*Grand Rapids, Mich.*
Johnson, Arthur Calvin a	*Elgin, Ill.*
Johnson, Vernon Webster, B.E.	*De Kalb, Ill.*
Jones, Helen Beatrice	*Elroy*
Josephson, Florence S.	*Cambridge*
Kane, Florence Janet	*Milwaukee*
Kanitz, Roy William	*Milwaukee*
King, Jane	*New Albany, Ind.*
Kinison, Cora Hinckley	*Rosemond, Ill.*
Kirley, Patrick Eugene a	*Townsend, Mont.*
Kirkpatrick, Vivian Charlene, B.S.	*St. Louis, Mo.*
Kline, Beatrice, B.S.	*Lafayette, Ind.*
Kuhns, Richard Jesse a	*Dayton, Ohio*
Lamoreux, Doris Marguerite a	*Milwaukee*
Langen, Bertram Byron	*Cincinnati, Ohio*
Lewis, Frances, B.S.	*Dodgeville*
Lifquist, Rosalind Caribelle	*Algoma*
Lochaya, Nai Chuang a	*Bangkok, Siam*
Logan, Ward Thomas, B.S. a	*Warsaw, Ind.*
Longsdorf, Lisle Leslie a	*Arkansaw*
Looker, Arthur R. a	*Viola*
Lurry, Teresa Elenore	*Colfax, La.*
Lyons, Maude May a	*Brodhead*
McClure, Olive Jane	*Gibson City, Ill.*
McClurg, Ruth Margaret a	*Lima, Ohio*
McCue, Grace Ellen a	*St. Louis, Mo.*
McDonough, Teresa Winifred	*Edgerton*
McGehee, Marian Louise	*Louisville, Ky.*
McKown, Lisle William	*Raymond, Ill.*
McNiff, Helen Dorothea	*Elmira, N. Y.*
Maldaner, Theodore a	*Watertown*
Marken, Caroline Sophia	*Valders*
Martin, Charlotte Mary, B.S.	*Syracuse, N. Y.*
Mason, Eunice Pearson, B.S.	*Minneapolis, Minn.*
Matteson, Angela Barbara a	*Milwaukee*
Maxwell, Martha Lillian	*Clarksburg, W. Va.*
Mellor, Milton E. a	*Madison*

Miller, Hester Olive	*Somers*
Mitten, Lois Edna, B.S.	*Coal City, Ind.*
Monroe, Dorothy May	*Lexington, Ky.*
Moore, Jessie Florence	*Mulberry Grove, Ill.*
Moore, Mary Ellen	*Louisville, Ky.*
Morey, Elizabeth May a	*North Freedom*
Morrison, Nell Mary	*Paris, Ill.*
Moser, Ada Magdalene a	*Hiawatha, Kan.*
Mulhall, Mary Louise a	*Sioux City, Iowa*
Murphy, Harold Edward a	*Delavan*
Nagle, Isabel Mary	*Chicago, Ill.*
Naset, Beulah Silverwood a	*Madison*
Neff, Edna Mary	*Sterling, Ill.*
Nye, Roy Frederick a	*Durand, Ill.*
Olsen, Irene a	*Whitewater*
Opitz, Herbert C. e	*Elkhorn*
Osius, William Fred a	*Plymouth*
Owen, Forrest Vern, M.S. g	*Ogden, Utah*
Owens, Frances Lillian Fraser, B.Di.	*Rochester, Minn.*
Pallett, Raymond Benjamin a	*Fennimore*
Palm, Isabel Reed	*Madison*
Palmer, Daisey	*Milwaukee*
Parker, Ruth Margaret	*Carthage, Ind.*
Parks, Mildred, B.S.	*Farmersville, Tex.*
Parlin, Maud Pauline	*Muskegon, Mich.*
Patterson, Georgia Tannert	*Madison*
Patton, Harold Smith, M.A.	*Edmonton, Canada*
Pearson, Frank William a	*Moorland, Ind.*
Pedersen, Gertrude a	*Winter Haven, Fla.*
Perkins, Everal Hartson	*Ellsworth*
Pettersen, Helen Emily a	*Madison*
Phillips, Angeline a	*Warren, Pa.*
Pitzele, Tillie Sylvia a	*East Chicago, Ind.*
Poundstone, Marie E. a	*Mellen*
Price, Ferdinand Theodore a	*Amherst*
Randall, Sadie Cecilia	*Chicago, Ill.*
Rathbun, Wilma Clara a	*Madison*
Reed, Alvin Josiah, B.S.	*Olney, Ill.*
Reed, Delpha Angeline	*Lakewood, Ohio*
Replogle, Catherine M.	*Chicago, Ill.*
Richer, Ruth Caroline	*Wisconsin Rapids*
Riising, Blanche Marie a	*Madison*
Robinson, Ethelyn Clyde, B.A.	*La Salle, Ill.*
Ross, Gladys De Ella, B.S.	*Oklahoma City, Okla.*
Rozinek, Frantisek	*Brno, Czechoslovakia*
Rude, Dora Mary	*Dodgeville*
Rugg, Margaret	*Rockford, Ill.*
Runkel, Dorothy Edith	*Burlington*
Rutherford, Howard Sidny	*Columbus*

Sanborn, Deborah Bertine a	*Kankakee, Ill.*
Scanlon, Irene Charlotte a	*Madison*
Schaefer, Herbert Carl a	*Brillion*
Schick, Barbara Kathryn	*Chicago, Ill.*
Schlieper, Carlos	*Buenos Aires, Argentina, S. A.*
Schwartz, Helen Lorraine	*Vincennes, Ind.*
Scott, Henry Thomas a	*Poynette*
Scott, Margaret Anne	*Ft. Wayne, Ind.*
Searls, William Henry	*Chicago, Ill.*
Segner, Esther Frances a	*St. Croix Falls*
Semb, Joseph a	*Galesville*
Sery, George Raymond a	*Milwaukee*
Severns, Dorris A	*Bushnell, Ill.*
Shugart, Grace Margaret a	*Princeton, Ill.*
Sister M. Josina Roth, B.S.	*La Crosse*
Sister M. Leonita Teeling ls	*La Crosse*
Skalitzky, David A.	*Waterloo*
Skifstad, Clinton E.	*River Falls*
Slattery, Inez Bertha	*Green Bay*
Smith, Florence Mary a	*Madison*
Smith, Helen Anne	*Oak Park, Ill.*
Smithyman, Ralph Pendleton a	*Wauwatosa*
Soper, Clarice M.	*Ogdensburg*
Sparks, Gertrude	*Parrish*
Starck, Meredith Marie a	*Superior*
Staley, Katherine Esther	*Meridian, Miss.*
Stangel, Viola Ann a	*Manitowoc*
Steedsman, Edna Amy, B.S.	*Larimore, N. D.*
Stevens, Theodore a	*Viroqua*
Stevenson, Ina Margaret a	*Winnebago, Minn.*
Suess, Elizabeth Josephine	*Hudson*
Sullivan, Catherine Ann a	*Madison*
Sutherland, Bernice Cecil	*Ft. Recovery, Ohio*
Taylor, Bertram Leloy, B.S.	*Butler, Mo.*
Tetzlaff, Glyden Stelzer a	*Mishicot*
Thatcher, Paul Alexander a	*Danbury*
Thiesen, Aileen M. a	*Racine*
Thomas, Clara Lucile a	*Madison*
Thompson, Helen Yoder	*West Point, Neb.*
Thompson, Mildred Harrington	*Chicago, Ill.*
Thompson, Nona Clemmie	*St. Louis, Mo.*
Thornton, Pauline	*Tulsa, Okla.*
Todd, Lois, B.S.	*Sullivan, Ill.*
Tollefson, John M. a	*Madison*
Tompkins, Elizabeth a	*Webster Groves, Mo.*
Topp, Margo Elisabeth a	*Columbus*
Tripp, Jennie Louise, B.S.	*Belvidere, Ill.*
Tyrrell, Nellie, B.S.	*Gloversville, N. Y.*
Upson, Mary Jane	*Cornell*

Van Slyke, Adah Maude	*Manilla, Iowa*
Wackman, Ralph Bruce a	*Brooklyn*
Waite, Bertha Wetherbee •	*Portsmouth, Ohio*
Walker, Elizabeth Frances Clary	*Mineral Point*
Wallber, Elsa Carrie a	*Milwaukee*
Wallrich, Marshall John	*Shawano*
Watson, Charlotte Home	*Burlington*
Webb, Rolland Blair a	*Poynette*
Wentworth, W. Norris a	*Madison*
Wenzel, Clarence Henry	*Milwaukee*
West, Eileen, B.S.	*Uniontown, Ala.*
Wheelock, Earle Nathaniel, B.S.	*Wilmette, Ill.*
Whitesel, Ritta	*Charleston, Ill.*
Wilder, Caledonia Esther	*Crowley, La.*
Williams, Margaret Elizabeth a	*Berlin*
Wilson, Edward Elmer a	*Burkesville, Ky.*
Wiseman, J. Wesley a	*Benton*
Wolf, Marcia Mary a	*Madison*
Wolfram, Violet March	*Watertown*
Wright, Adaline Victoria a	*Chicago, Ill.*
Young, Martha Grace, B.A.	*Memphis, Tenn.*
Zehrung, Gertrude Margaret	*Topeka, Kan.*

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Engineering

Abendroth, George H. e	*Milwaukee*
Alfery, Henry Frank e	*Milwaukee*
Anderson, Arthur Job e	*Chicago, Ill,*
Anderson, Oscar M. e	*Viola*
Andrae, Stephen C. e	*Madison*
Anthony, Herman Russel G. e	*Madison*
Aultman, Dwight Edward, Jr. e	*Ft. Harrison, Ind.*
Averill, Robert Lincoln e	*Batavia, Ill.*
Baehr, William Byron e	*Glencoe, Ill.*
Ballou, Ralph Norton ls	*Naperville, Ill.*
Barenscher, Otto William e	*Church's Ferry, N. D.*
Barker, Carleton Joseph e	*Madison*
Barker, Herman Henry e	*Noblesville, Ind.*
Baxandall, Frank Matthew e	*Fall River*
Becker, Elmer William e	*Appleton*
Bellew, Edgar Thomas e	*Appleton*
Bennett, George Vincent	*Janesville*
Bennett, Lester Cealian e	*Endeavor*
Bennett, Martin Toscan e	*Katonah, N. Y.*
Berg, Leo Frank e	*Lima Center*
Berger, Harold J. e	*Genoa Junction*
Blawusch, Robert William e	*Adams*
Bloodgood, Don E. e	*Elkhorn*
Blunt, Albert E. e	*Evansville*

Bohrnstedt, Russell George e	*Arcadia*
Bolender, Howard Hosier e	*Monroe*
Bollens, Fred Henry e	*Farmington, Mich.*
Bonawitz, Walter George e	*Milwaukee*
Bond, Jerome Sanford e	*Milwaukee*
Bonn, Melvin Francis	*Lancaster*
Brackett, Max A. e	*Elk Mound*
Branks, Joseph Orrin	*Janesville*
Breitenbach, William Edgar e	*Madison*
Breivogel, Milton William e	*Two Rivers*
Brock, James Ephriam, M.A.	*Bloomington, Ind.*
Bruce, John Nathan e	*Shawano*
Brumm, Roman Henry e	*Madison*
Busby, Lynn J. e	*Arcadia*
Bussey, Kenneth George e	*Chicago, Ill.*
Bybuth, Martin Edward e	*Eau Claire*
Caldwell, Earl Leroy e	*Indianapolis, Ind.*
Campbell, Don W. e	*Evansville*
Case, Clarence Chester	*Milwaukee*
Chadima, Willard John e	*Cedar Rapids, Iowa*
Christopherson, Fritz Conway	*Grantsburg*
Chyle John Joseph e	*Cudahy*
Clark, Henry Lurkins e	*Richland Center*
Coates, Royal Edward e	*Prairie du Chien*
Colbert, Thomas Peter e	*Chicago, Ill.*
Collins, William Allan e	*Madison*
Cooley, Donald Nash e	*Wauwatosa*
Corliss, Allen Gregory e	*La Grange, Ill*
Craney, James Benedict, B.A.	*Dubuque, Iowa*
Crew, Louis Crawford e	*Arcola, Miss.*
De Bot, Elmer Clarence e	*Wittenberg*
Desmond, John Thomas e	*Boscobel*
Devendorf, Joseph Joslin e	*Madison*
Diboll, Eugene Blocker	*New Orleans, La.*
Donkle, Melvin Clarence e	*Madison*
Drolenga, Nicholas Clarence e	*Chicago, Ill.*
Dueno, Fred Henry e	*Manitowoc*
Dyrud, Martinus Jacob e	*Baraboo*
Eddy, Russell Morris e	*Oconomowoc*
Edwards, Max H.	*Toledo, Ohio*
Ekstrom, Dean Bernard e	*Superior*
Empey, Leroy William	*Green Bay*
Engelke, Herman Gerarl e	*Milwaukee*
Enyart, William Ralph	*Connersville, Ind.*
Esterline, Merrill Brown e	*Indianapolis, Ind.*
Farwell, Knight Dick e	*Madison*
Fiedler, Stuart Otho e	*Madison*
Field, George Hansen e	*Racine*
Field, Walter Sherman e	*Madison*

Finch, Clayton Lindsay e	*Random Lake*
Fitze, Maurice Edward e	*Beloit*
Flanders, Jack Gilbert e	*Oconto*
Fleishauer, Wayne R. e	*Arkansaw*
Foxon, Roy Draper e	*Northampton, Mass.*
Frank, David Sol	*Sparta*
Gartner, Irl Cave e	*Linneus, Mo.*
Gary, Charles Vilas e	*Madison*
Gausman, William Henry e	*Verona*
Gebhardt, George Thrall ls	*Racine*
Gerhardt, William Arthur, Jr. e	*Neenah*
Gibson, Harley Louis e	*Madison*
Giles, William Ralph e	*Madison*
Goshaw, Irl Rufus e	*Gary, Ind.*
Gramm, Anthony Frank e	*Mt. Horeb*
Greeley, William Frederick e	*Delavan Lake*
Greene, Ernest Wilfred e	*Plant City, Fla.*
Grosjean, Harry William e	*Milwaukee*
Growt, Glenn Nicholls e	*Trempealeau*
Haddorff, Irving R. e	*Rockford, Ill.*
Halls, James w. e	*Winnipeg, Canada*
Hammann, William e	*Milwaukee*
Hansen, Magnus Christian	*Thorp*
Hanson, Malcolm Parker e	*Milwaukee*
Hare, Clarence Mathew e	*Barksdale*
Harris, Mace Van Sant e	*Fergus Falls, Mont.*
Harris, Robert Edwin e	*Chicago, Ill.*
Hart, Lyman Herbert e	*Madison*
Hartman, Rudolph Albert ls	*Lancaster*
Haugen, Edmond Harris e	*Madison*
Hazen, Harvey Duke e	*Phelps*
Heimbough, Grace	*Superior*
Heise, Lorenz William e	*Madison*
Henrichsen, Knut	*Madison*
Hering, Oswald H. e	*Madison*
Hiemer, Fred Victor ls	*Milwaukee*
Hirsch, Edmund e	*Milwaukee*
Hirth, Carl W. e	*Milwaukee*
Hogan, Harland Orville ls	*Madison*
Holden, Charles Edward e	*Burkhardt*
Hoover, Stephen Clark e	*Denver, Col.*
Ibenthal, Stanley John	*Middleton*
Ihling, Herbert M. e	*Milwaukee*
Isdahl, Einar	*Bergen, Norway*
Janzer, Lorin Henry e	*Milwaukee*
Johnson, Arthur Oliver a	*Madison*
Johnson, Edwin Eric e	*Dollar Bay, Mich.*
Johnson, Floyd Dwight e	*Bear Creek*
Jones, H. Grady e	*Madison*

Judson, Albert LeRoy	*Beloit*
Juhl, Martin E. e	*Ashland*
Kaiser, John George a	*Madison*
Kautz, Harold Raymond e	*Madison*
Kelhofer, Leon Martin e	*Madison*
Kent, Hugh, Jr., B.S. e	*Missoula, Mont.*
Ketelhohn, Alfred H. e	*Columbus*
Kietzmann, Edward Herman e	*Westfield*
King, Kenneth Jacob e	*Superior*
King, Timothy Paul e	*Niagara*
Kingston, Lyle Henry	*Marinette*
Kleinhammer, Herman Albert e	*Platteville*
Kloser, Marcellus Paul e	*Cassville*
Kratsch, Henry William e	*Oshkosh*
Krebs, Lester John e	*Chicago Heights, Ill.*
Krieger, Elmer Carl e	*Milwaukee*
Kroesche, Herold Joseph e	*German Valley, Ill.*
Krohn, Howard Gustav e	*Whitewater*
Krombholz, A. John e	*Milwaukee*
Kubista, William R. e	*Madison*
Kuenzli, Walter Arthur e	*Wauwatosa*
Kuhe, David Birmingham e	*Madison*
Lamboley, Raymond George e	*Belleville*
Landwehr, Waldemar John e	*Sheboygan*
Lee, Yun Hua	*Kwangsi, China*
Leith, Kenneth e	*Madison*
Lemmer, Vernon Eugene e	*Spooner*
Lerch, Glen Bennet e	*Virginia, Minn.*
Lessing, Otto e	*Williamstown, Mass.*
Levin, Rubin	*Milwaukee*
Li, Yiu Chiu	*Chihli, China*
Lindahl, Carl G. e	*Dawson, Alaska*
Lindner, Clement Pearl e	*Prairie du Chien*
Little, George Moody e	*Rockford, Ill.*
Lloyd, C. Herbert e	*Milwaukee*
Loranger, Raoul	*New Bedford, Mass.*
Luedtke, Elroy Robert e	*Reedsville*
Luening, Robert Louis	*Oconomowoc*
Lynn, Delmur Charles e	*Cornell*
McCormick, Gerald Thomas e	*Chicago, Ill*
McCullough, Herbert David e	*Fond du Lac*
McDougal, Donald e	*Riverside, Ill.*
McKaig, Willard Hulick	*Long Branch, N. J.*
MacLeish, Kenneth Clinton e	*Merrimack*
Maiers, Joseph Adam	*Madison*
Manthey, Rollin Henry e	*Ablemans*
Mariotte, Walter W. e	*Madison*
Markham, George Edward e	*Manitowoc*
Markham, Jack Dauphin e	*Manitowoc*

Marquardt, Edwin Gottlieb e	*Milwaukee*
Marquez, Ramon Gregorio	*Lucena, Tayabas, P. I.*
Marx, Carl Henry e	*Madison*
Masters, Dean Bartley e	*Canton, Minn.*
Mathy, Anton e	*Brussels*
Mayer, Herbert Clarence e	*Milwaukee*
Merrill, Robert Allen e	*Sparta*
Michael, John Hadji e	*Neenah*
Migone, Enrigue Joaquin	*Asuncion, Paraguay, S. A.*
Millard, George Earl e	*Tacoma, Wash.*
Miller, Edward Holmes e	*Green Bay*
Miller, Edwin W. e	*Kaukauna*
Minear, Virgil Luther, B.A.	*Rockland, Ida.*
Mohs, Carl E. e	*Madison*
Mooney, Fred Elmore e	*Oconto*
Morse, John Jay, Jr.	*St. Louis, Mo.*
Morton, B. Frank e	*Rhinelander*
Mueller, Rudolf Benajmin e	*Hot Springs, S. D.*
Murphy, Dennis John e	*Buhl, Minn.*
Musselman, Morse Monroe e	*Madison*
Naab, Milton Peter e	*West Bend*
Nelson, Edwin Fritchiel e	*Superior*
Nelson Erik Nels e	*Denver, Col.*
Nelson, Floyd Elmer e	*Kenosha*
Newell, Foster Sherriff	*Irma*
Nichol, Paul A. e	*Madison*
Nielsen, Arnold Helmuth e	*Sparta*
Nordquist, Eric Rudolph	*Milwaukee*
Novakovich, Stephen	*Milwaukee*
Odell, Milford e	*Madison*
Olson, Edward Erik e	*Milwaukee*
Otis, Edward Numan e	*Madison*
Ouweneel, William Edwin e	*Milwaukee*
Owens, Irvin King	*St. Louis, Mo.*
Parkinson, Herbert e	*La Crosse*
Pech, Reuben John e	*Manitowoc*
Peterson, Du Wayne J. e	*Dodgeville*
Pfeiffer, Milton J.	*Plymouth*
Pickford, Jerome Michael	*Cudahy*
Pieper, Frederick Walter	*Milwaukee*
Plewke, Walter Herman e	*Avalon*
Plummer, Richard Terzonk e	*Marble, Minn.*
Pokras, Adolph e	*Milwaukee*
Prideaux, Donald Williams e	*Madison*
Prien, Edwin Louis ls	*Columbus*
Quinn, Raymond John e	*Madison*
Rai, Naralehoop	*Bengal, India*
Rand, Alfred Emil e	*Chicago, Ill.*
Reader, Jay J. e	*Delavan*

Reinhold, Carl J. e	*Milwaukee*
Richter, Walter Hermann e	*Milwaukee*
Rick, Norman Andrew e	*Wausau*
Robb, Carroll Elbridge e	*La Crosse*
Roller, August Frank e	*Sun Prairie*
Rose, Leland Martin ls	*Monticello*
Rotter, Israel Irvin, B.S.	*Milwaukee*
Rundell, Edward Bacon e	*Madison*
Rynders, Arthur	*Madison*
Saltzstein, Irving D. e	*Milwaukee*
Savery, Thomas H. e	*Chicago, Ill.*
Schjolberg, Eiler R. K.	*Kristiania, Norway*
Schmidt, Charles John e	*Waunakee*
Schmidt, Eugene Albert e	*Milwaukee*
Schmidt, Walter Carl e	*Brillion*
Schmit, Dominic Frank	*Port Washington*
Schneider, Alfred William e	*Milwaukee*
Schoenoff, Waldemar Paul e	*Menomonie*
Scholes, Robert Henry e	*Endeavor*
Schowalter, Clarence Herman e	*Jackson*
Schrader, Roland, Ralph e	*Kaukauna*
Schrank, Joseph Michael e	*Ashland*
Schudt, Joseph A. e	*Freeport, Ill.*
Schuman, Everett Carlyle e	*Milwaukee*
Seastone, John Bouton e	*Madison*
Severson, Norman Arthur e	*Cambridge*
Sherburne, Henry C. e	*Fremont*
Simons, Fred Adams e	*Newtonville, Mass.*
Slama, Raymond Adolph e	*Prairie du Chien*
Smallshaw, James e	*Milwaukee*
Smith, Millard Beale e	*Wauwatosa*
Smith, Ralph Albert e	*Wauwatosa*
Smith, Richard Albert e	*Linden*
Sobey, James Henry	*Dodgeville*
Spetz, Ralph Ferdinand	*Milwaukee*
Stebbins, Lawrence Lane e	*Clinton, Iowa*
Steel, Beaumont, Andrew e	*Milwaukee*
Stegeman, Henry Randall, B.S.	*Ft. Thomas Ky.*
Stiehm, Floyd Manerd e	*Johnson Creek*
Strum, Sverre	*Drammen, Norway*
Swann, Ray Renaldo e	*Brodhead*
Sykora, Jerry George ls	*Batavia, Ill.*
Taylor, Daniel Gilman	*Madison*
Taylor, John Atkinson	*New Lisbon*
Teckemeyer, Oscar William e	*Madison*
Terry, Eugene John	*Madison*
Thomas, Cleo Whitney e	*Madison*
Thomas, Walter Edward e	*Milwaukee*
Tietjen, William Leiner e	*No. Milwaukee*

Ting, Ssu Hsien	*Peking, China*
Tjoflat, Gerald Benjamin e	*Ettrick*
Todd, George Alfred	*Packwaukee*
Tovey, David Stephen e	*Madison*
Tseng, Lisan e	*Shanghai, China*
Van Doren, Kenneth Reed e	*Birnamwood*
Villatoya, Roberto Pedro	*Luisiana, Laguna, P. I.*
Waffle, Nathan Lowell e	*Fond du Lac*
Weckwerth, Herbert Frederick	*Kaukauna*
Weimer, Bernard Arthur e	*Arlington Heights, Ill.*
Welch, John Frances e	*Jefferson*
West, Kenneth Allen e	*Madison*
Whelan, Richard A. e	*Milwaukee*
Whelan, W. Miller	*Mondovi*
White, Emil e	*Racine*
Whittet, Gordon Thomas e	*Edgerton*
Wienke, Arthur Robert e	*Beloit*
Wilbershide, Matt Louis	*Ablemans*
Wilcox, Clarendon Wilton e	*Madison*
Wilson, Ralph Calvin, B.S.	*St. Louis, Mo.*
Wing, Orlando Harold e	*Eau Claire*
Wolverton, Robert Farrow	*Oshkosh*
Wolworth, Lloyd Franklin e	*Madison*
Woods, Richard Northall	*Rockford, Ill.*
Woy, Frank Hobbins e	*Madison*
Yensen, Howard Magruder	*East Cleveland, Ohio*
Young, Ruby Reginald (Mr.) e	*Ft. Atkinson*
Zia, Yussuf Abraham e	*Constantinople, Turkey*

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Law

Ahlstrom, Roy Victor	*La Crosse*
Anderson, Rudolph l	*Superior*
Arnold, Lyman Kent l	*Madison*
Ary, Lester Clyde, B.A.	*Cherokee, Iowa*
Ballam, Cyril John ls	*Marshfield*
Bancroft, Blaine D. l	*Madison*
Bareis, Charles John	*Platteville*
Beggs, Lyall T. l	*Rice Lake*
Belknapp, Jamie Ray, B.A.	*McIntosh, S. D.*
Benesh, Lawrence F.	*Toledo, Iowa*
Beyer, Adelbert John, M.A. l	*Milwaukee*
Blum, Bruce Marty, B.A.	*Monroe*
Borgelt, Edward Hubert	*Milwaukee*
Brandeis, Elizabeth, B.A. g	*Washington, D. C.*
Brown, Lloyd J. l	*Madison*
Burke, Thomas Nicholas, B.A. l	*West De Pere*
Butts, Henry Pemberton	*Charleston, W. Va.*

Cadigan, Charles Patrick	*Superior*
Callahan, Kevin John 1	*Montello*
Chase, Lucius Peter, B.A. 1	*Madison*
Christianson, Carl 1	*Deerfield*
Christianson, Oscar, B.A. 1	*Beloit*
Clark, Farnham Adelbert 1	*Menomonie*
Clohesy, Marion Estelle	*Chicago, Ill.*
Conley, Paul Bernard 1	*Darlington*
Connors, Harold Francis, B.A.	*Hurley*
Conroy, Frances Philip	*Jacksonville, Ill.*
Cosgrove, Frank William 1	*Fond du Lac*
Cotton, Eugene Leigh	*Butte, Mont.*
Curtis, Joseph C., M.S.	*New Lisbon*
Dahl, A. Walter 1	*Superior*
Denyes, Lawrence Owens, B.S. g, 1	*Appleton*
Desmond, John William ls, 1	*Milwaukee*
Dittmann, Val William	*Racine*
Dorau, Armin Carl ls, 1	*Madison*
Dorau, Armin Carl ls, 1	*Sturgeon Bay*
Dunn, Lawrence Brewster, B.A.	*Appleton*
Edelson, Nathan 1	*Oshkosh*
Engelhard, Larry Mathew	*La Crosse*
Feldmann, Louis Charles	*Oshkosh*
Felten, Hilbert Oscar, B.A.	*Milwaukee*
Fitzgibbons, James Maurice, B.A.	*Monroe*
Fosgate, Frank Pilling	*Richland Center*
Frenchick, Edward William 1	*Weyerhauser*
Fritschler, John Curtis 1	*Sturgeon Bay*
Frye, Miriam Louise, B.A. 1	*Madison*
Gamroth, Joseph Claude 1	*Independence*
Gardner, William McHard, B.A. 1	*Huron, S. D.*
Garrigan, George Arthur, B.A.	*Beloit*
Gill, Franklin Edward, B.A.	*Sioux City, Iowa*
Glaeser, Elmer William	*Chicago, Ill.*
Goodman, Leo John 1	*Kendall*
Gregg, Ashton Carter, B.A. 1	*Decorah, Iowa*
Grover, Frank Harding 1	*Galesville*
Hackworth, James Leslie	*Bridgeport, Ala.*
Heassler, Alton Sprecker	*Madison*
Henderson, Palmer Edwin	*Ettrick*
Hickox, Warren R., Jr.	*Kankakee, Ill.*
Hiken, Charles 1	*Milwaukee*
Hill, Philip Henry	*Charleston, W. Va.*
Holscher, Herbert Frederick, B.A.	*McFarland*
Hopkins, Joseph J.	*Milwaukee*
Humphrey, Edward Emmett 1	*Wild Rose*
Hurley, John Joseph 1	*Milwaukee*
John, Frederick Charles 1	*Milwaukee*
Johnson, Guy Arthur, B.A.	*Blanchardville*

Jonas, Fred Charles l	*Mishicot*
Joslin Hiram Millard, B.A.	*Cedar Rapids, Iowa*
Kilness, Gideon Waldemar, M.A.	*Dell Rapids, S. D.*
Kraege, Frederick Halsey, Ph.B. l	*Madison*
Lewis, Harold Wilcox	*Quincy, Ill.*
Lowry, Scott Kerr	*Waukesha*
Macomber, Stephen D.	*New Lisbon*
Martelle, Wilbur William	*Menomniee, Mich.*
Martineau, John Baptiste l	*Oshkosh*
Moreau, Frederick James, Ph.B. l	*Casco*
Moroney, Robert Emmet, B.A.	*Dallas,Tex.*
Murphy, John Folk ls	*Madison*
Maujoks, Herbert Hugh ls	*Milwaukee*
Omernik, Edward Edmond	*Spooner*
Peterson, Elvin Norman	*Minneapolis, Minn.*
Peterson, Erhart Gustaf, B.A.	*Superior*
Phelps, William Wallace	*Central City, Iowa*
Phillips, Nathaniel Pope, B.S.	*Torras, La.*
Porter, Emery John, B.A.	*Mukwonago*
Randolph, John Binford, B.A.	*Lafayette, Ind.*
Rankuce, Vincent, B.A.	*Rochester, N. Y.*
Raushenbush, Paul A., B.A. g	*Milton*
Reitan, R. Norman l	*Bonduel*
Retzer, John Porter, B.A.	*Madison*
Reynolds, John Edwin	*Arcadia, La.*
Rinehard, Clarence Ellsworth, B.A.	*Shawano*
Risser, Frederic Emanuel	*Fountain City*
Samuelson, Charles Ransom	*Hildreth, Neb.*
Sanson, William Herbert	*Eau Claire*
Schmidt, Herman Arthur ls, l	*Columbus*
Schumacher, Earl Emerson l	*Beaver Dam*
Sells, Arthur Max l	*Florence*
Sigman, Samuel l	*Two Rivers*
Skrentny, Cecilia Mary l	*Indiana Harbor, Ind.*
Smith, Paul Francis, B.A.	*Dubuque, Iowa*
Stiles, Harry Farrar, B.A.	*New Orleans, La.*
Swenson, Harley George	*Hillsboro, N. D.*
Taylor, Marion Arch	*Shreveport, La.*
Thompson, Earl Joseph ls, l	*Cottage Grove*
Thorson, Arthur Thomas l	*Eau Claire*
Trowbridge, Frederick Newell, B.A. l	*Viroqua*
Walker, Beatrice Lampert l	*Madison*
Watts, Frederic Arnold	*Charleston. W. Va.*
Weisman, Jacob M.	*Racine*
Whitman, Marcus ls, l	*Baraboo*
Wilson, Howard Thornton, B.S.	*Granville, Ill.*
Youngquist, Seth Charles, B.A. g	*Madison*

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STATISTICAL TABLES

DEGREES ACCORDING TO COURSES

		1923
Number of first degrees granted, 1854–1923	18,857	1,404
Present Courses:		
Courses leading to the degree of Bachelor of Arts, 1904–1923	7,342	740
(Included in the above is the Course in Commerce, 1904–1923, 1,251; 1923, 187, the Course in Journalism, 1914–1923, 215; 1923, 50; and the Course in Humanities, 1922–1923, 9; 1923, 4)		
Course for Normal School Graduates, Ph.B., 1898–1923	705	38
General Course, Ph.B., 1917–1923	91	33
Chemistry Course, B.S., 1909–1923	227	19
Physical Education Course, B.S., 1920–1923	41	16
Applied Arts Course, B.S., 1922–1923	21	14
Industrial Education Course, B.S., 1922–1923	13	10
Medical Science Course, B.S., 1909–1923	417	51
Pharmacy Course, B.S., 1895–1923	83	8
Pharmacy Course, Ph.G., 1884–1923	421	17
Bachelor of Music, B.M., 1917–1923	60	19
Course for Supervisors of Music, 1910–1923	152*	17*
Course in Agriculture, B.S., 1878–1923	1,194	111
Home Economics Course, B.S., 1909–1923	529	64
Course in Agriculture (Middle Course), Ag.G., 1910–1923	210*	19*
Law Course, LL.B., 1869–1923	2,240	51
Civil Engineering Course, B.S., 1876–1923	826	42
Mechanical Engineering Course, B.S., 1876–1923	652	51
Electrical Engineering Course, B.S., 1892–1923	802	63
Chemical Engineering Course, B.S., 1903–1923	247	46
Mining Engineering Course, B.S., 1910–1923	82	11
Courses discontinued:		
Ancient Classical Course, B.A., 1854–1903	470	
Modern Classical Course, B.L., 1876–1903	548	

* Not included in totals.

		1923
English Course, B.L., 1887–1903	459	
Civil Historical Course, B.L., 1893–1903	383	
General Science Course, B.S., 1886–1903	722	
Geology Course, 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	
Manual Arts Course, B.S., 1921	2	
Course in Home Economics (Two Yr. Course), Ag.G., 1920–1922	8*	
Higher Degrees on Examination, 1875–1923	3,508	321
Master of Arts, M.A., 1879–1923	1,585	131
Master of Letters, M.L., 1879–1903	97	
Master of Science, M.S., 1879–1923	750	100
Master of Science, Engineering, M.S., 1922–1923	22	9
Engineer, 1879–1923	375	7
Master of Pharmacy, M.Pharm., 1903	1	
Master of Agriculture, M.Agr., 1893	1	
Master of Philosophy, M.Ph., 1879–1923	75	10
Master of Public Health, 1915–1916	4	
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1923	596	64

KIND OF DEGREES

Number of first degrees granted, 1854–1923		18,857
Bachelor of Arts, 1854–1923	7,812	
Bachelor of Philosophy, 1898–1923	796	
Bachelor of Letters, 1876–1903	1,398	
Bachelor of Science, 1873–1923	5,955	
Bachelor of Metallurgical Engineering, 1876–1896	16	
Bachelor of Laws, 1869–1923	2,240	
Bachelor of Music, 1917–1923	60	
Graduate of Music, 1896–1916	134	
Graduate in Pharmacy, 1884–1923	421	
Graduate in Agriculture (Middle Course), 1910–1923	218*	
Normal Course, 1865–1868	25	
Course for Supervisors of Music, 1910–1923	152*	

* Not included in totals.

Higher Degrees on Examination, 1875–1923		3,508
Masters, 1879–1923	2,535	
Engineer, 1879–1923	375	
Doctor of Public Health, 1912–1915	2	
Doctor of Philosophy, 1892–1923	596	
Grand Total of First and Higher Degrees granted, 1854–1923		22,365

HONORARY DEGREES

Doctor of Letters	6	2
Doctor of Laws	116	2
Doctor of Literature	3	
Doctor of Science	13	1
Doctor of Philosophy	4	
Doctor of Medicine	1	
Master of Arts	26	
Master of Science	1	
Civil Engineer	4	
Mechanical Engineer	1	
Bachelor of Arts	1	
Bachelor of Laws	2	
Bachelor of Mechanical Engineering	1	
Total Honorary Degrees	179	

FACULTY

	Men	Women	Total
President and Deans	**9**	**1**	**10**
Professors	139	2	141
Associate Professors	78	3	81
Assistant Professors	**115**	**32**	**147**
Lecturers (small part of time)	44	3	47
Instructors	249	90	339
Assistants (mainly half time, but a few more than half time, and a considerable number less than half time)	207	77	284
Student Assistants (small part of time)	40	4	44
Total	881	212	1,093

The above summary includes:

a. Members of the instructional staff at Madison, both 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.

d. The following who are on leave of absence for the academic year 1923–24:

	Men	Women	Total
Professors	7	0	7
Associate Professors	2	0	2
Assistant Professors	2	1	3
Lecturer	1	0	1
Instructor	1	0	1
Total	13	1	14

There are eight *emeritus* professors and one *emeritus* assistant professor not included in the above summary.

STUDENTS

Summary by Classes

	Men		Women		Total	
GRADUATE SCHOOL—						
College of Letters and Science.	368		222		590	
College of Engineering	44		0		44	
College of Agriculture	118		24		142	
		530		246		776
SENIORS—						
College of Letters and Science.	536		530		1,066	
College of Engineering	260		0		260	
College of Agriculture	103		85		188	
Law School, Third Year	68		2		70	
School of Music	0		9		9	
		967		626		1,593
JUNIORS—						
College of Letters and Science.	491		532		1,023	
College of Engineering	227		0		227	
College of Agriculture	79		75		154	
Law School, Second Year	49		2		51	
School of Music	1		8		9	
		847		617		1,464
SOPHOMORES—						
College of Letters and Science.	642		589		1,231	
College of Engineering	242		2		244	
College of Agriculture	55		80		135	
Law School, First Year	99		3		102	
School of Music	1		25		26	
		1,039		699		1,738
FRESHMEN—						
College of Letters and Science.	1,116		693		1,809	
College of Engineering	359		0		359	
College of Agriculture	92		78		170	
School of Music	4		58		62	
		1,571		829		2,400

	Men		Women		Total	
SPECIAL STUDENTS—						
College of Letters and Science.	34		28		62	
College of Engineering.....	8		0		8	
College of Agriculture.....	5		2		7	
Law School	15		1		16	
School of Music.....	1		3		4	
		63		34		97
UNCLASSIFIED STUDENTS—						
School of Music		4		13		17
MEDICAL SCHOOL—						
Graduates	19		8		27	
Seniors	77		7		84	
Juniors	43		2		45	
		139		17		156
WISCONSIN LIBRARY SCHOOL—						
Scholars	1		0		1	
Seniors	0		2		2	
Juniors	0		1		1	
Unclassified	0		34		34	
		1		37		38
Grand Total, Regular Year.....		5,161		3,118		8,279
Twice Counted		182		21		203
Net Total, Regular Year.....		4,979		3,097		8,076
SUMMER SESSION of 1923.....2,051			2,639		4,690	
Twice Counted	856		444		1,300	
		1,195		2,195		3,390
VOCATIONAL SCHOOL	150		1		151	
Twice Counted	116		0		116	
		34		1		35
SHORT COURSES IN AGRICULTURE—						
Short Course	178		0		178	
Winter Dairy Course.....	80		0		80	
	258		0		258	
Twice Counted	1		0		1	
		257		0		257
Grand Net Total (excluding Extension)		6,465		5,293		11,758

Summary by Colleges

	Men	Women	Total
GRADUATE SCHOOL—			
Fellows	37	11	48
Scholars	19	10	29
Other Graduate Students	474	225	699
(Not carried to totals because included in lists below.)	530	246	776
COLLEGE OF LETTERS AND SCIENCE—			
Fellows	22	9	31
Scholars	10	8	18
Graduates	336	205	541
Seniors	536	530	1,066
Juniors	491	532	1,023
Sophomores	642	589	1,231
Freshmen	1,116	693	1,809
Adult Specials, Fourth Year	2	0	2
Adult Specials, Third Year	1	0	1
Adult Specials, Second Year	3	2	5
Adult Specials, First Year	28	26	54
	3,187	2,594	5,781
Included above are the following Courses:			
COURSE IN COMMERCE:			
Seniors	158	27	185
Juniors	107	13	120
Sophomores	143	16	159
Freshmen	268	23	291
Adult Specials, Third Year	1	0	1
Adult Specials, Second Year	2	0	2
Adult Specials, First Year	5	1	6
	684	80	764
COURSE FOR NORMAL SCHOOL GRADUATES:			
Seniors	12	40	52
Juniors	11	44	55
Sophomores	0	5	5
	23	89	112
COURSE IN JOURNALISM:			
Seniors	23	35	58
Juniors	23	26	49
Sophomores	39	42	81
Freshmen	75	56	131
Adult Specials, Second Year	1	0	1
Adult Specials, First Year	0	4	4
	161	163	324

	Men	Women	Total
COURSE IN PHARMACY:			
FOUR YEAR COURSE:			
Seniors	12	2	14
Juniors	5	1	6
Sophomores	11	1	12
Freshmen	10	2	12
	38	6	44
TWO YEAR COURSE:			
Second Year	17	1	18
First Year	40	0	40
Adult Specials, First Year.	2	0	2
	59	1	60
COURSE IN CHEMISTRY:			
Seniors	16	2	18
Juniors	11	2	13
Sophomores	21	1	22
Freshmen	30	4	34
	78	9	87
COURSE WITHOUT FOREIGN LANGUAGE REQUIREMENT:			
Seniors	28	7	35
Juniors	31	8	39
Sophomores	40	8	48
Freshmen	46	9	55
Adult Specials, Fourth Year.	1	0	1
Adult Specials, First Year...	2	0	2
	148	32	180
COURSE IN HUMANITIES:			
Seniors	3	7	10
Juniors	1	3	4
Sophomores	2	15	17
Freshmen	3	11	14
	9	36	45
COURSE IN PHYSICAL EDUCATION:			
Seniors	0	24	24
Juniors	3	29	32
Sophomores	5	37	42
Freshmen	16	42	58
Adult Specials, First Year..	1	0	1
	25	132	157

	Men	Women	Total
COURSE IN APPLIED ARTS:			
Seniors	0	18	18
Juniors	1	16	17
Sophomores	1	21	22
Freshmen	9	32	41
	11	87	98
COURSE IN INDUSTRIAL EDUCATION:			
Seniors	14	0	14
Juniors	7	0	7
Sophomores	7	0	7
Freshmen	2	0	2
Adult Specials, Fourth Year.	1	0	1
	31	0	31
COURSE IN CHEMISTRY–COMMERCE:			
Juniors	4	0	4
Sophomores	6	0	6
Freshmen	22	0	22
	32	0	32
SCHOOL OF MEDICINE:			
Graduates	19	8	27
Seniors	77	7	84
Juniors	43	2	45
	139	17	156
SCHOOL OF EDUCATION:			
Fellows	1	1	2
Graduates	23	19	42
Seniors	16	185	201
Juniors	12	159	171
Sophomores	4	26	30
	56	390	446
ALL PHYSICAL EDUCATION, APPLIED ARTS AND INDUSTRIAL EDUCATION STUDENTS ARE IN THE SCHOOL OF EDUCATION. BELOW ARE OTHER STUDENTS IN BOTH THE SCHOOL OF EDUCATION AND SPECIAL COURSES. INCLUDED ONLY IN THEIR SPECIAL COURSES ABOVE:			
Seniors:			
Course in Commerce	4	2	6
Course for Normal School Graduates	5	14	19

	Men	Women	Total
Course in Journalism....	0	5	5
Course in Chemistry.....	2	1	3
Course Without Foreign Language Requirement	2	3	5
Course in Humanities....	0	5	5
Juniors:			
Course in Commerce.....	1	2	3
Course for Normal School Graduates	6	18	24
Course in Journalism.....	1	3	4
Course in Chemistry	1	0	1
Course without Foreign Language Requirement.	3	2	5
Sophomores:			
Course in Journalism	0	1	1
	(25)	(56)	(81)
LETTERS AND SCIENCE STUDENTS NOT IN SPECIAL COURSES:*			
Fellows	21	8	29
Scholars	10	8	18
Graduates	294	178	472
Seniors	177	176	353
Juniors	232	229	461
Sophomores	346	416	762
Freshmen	595	514	1,109
Adult Specials, Second Year.	0	2	2
Adult Specials, First Year...	18	21	39
	1,693	1,552	3,245
COLLEGE OF ENGINEERING:			
Fellows	3	0	3
Scholars	3	0	3
Graduates	38	0	38
Seniors	260	0	260
Juniors	227	0	227
Sophomores	242	2	244
Freshmen	359	0	359
Adult Specials, Second Year.	4	0	4
Adult Specials, First Year..	4	0	4
	1,140	2	1,142

* Letters and Science students electing law or library studies are included.

Included above are the following Courses:	Men	Women	Total
CIVIL ENGINEERING COURSE:			
Seniors	37	0	37
Juniors	60	0	60
Sophomores	70	0	70
Freshmen	117	0	117
Adult Specials, First Year	1	0	1
	285	0	285
MECHANICAL ENGINEERING COURSE:			
Seniors	74	0	74
Juniors	43	0	43
Sophomores	47	0	47
Freshmen	58	0	58
Adult Specials, Second Year.	1	0	1
	223	0	223
ELECTRICAL ENGINEERING COURSE:			
Seniors	99	0	99
Juniors	87	0	87
Sophomores	79	0	79
Freshmen	143	0	143
Adult Specials, Second Year.	2	0	2
Adult Specials, First Year	2	0	2
	412	0	412
CHEMICAL ENGINEERING COURSE:			
Seniors	37	0	37
Juniors	27	0	27
Sophomores	38	0	38
Freshmen	31	0	31
Adult Specials, Second Year.	1	0	1
Adult Specials, First Year	1	0	1
	135	0	135
MINING ENGINEERING COURSE:			
Seniors	13	0	13
Juniors	10	0	10
Sophomores	8	2	10
Freshmen	10	0	10
	41	2	43

College of Agriculture:	Men	Women	Total	
Fellows	12	2	14	
Scholars	6	2	8	
Graduates	100	20	120	
Seniors	103	85	188	
Juniors	79	75	154	
Sophomores	55	80	135	
Freshmen	92	78	170	
Adult Specials, Third Year..	1	0	1	
Adult Specials, Second Year.	1	1	2	
Adult Specials, First Year..	3	1	4	
	452	344		796

Included above are the following courses:

Long Course:			
Fellows	12	1	13
Scholars	6	2	8
Graduates	100	7	107
Seniors	103	1	104
Juniors	79	3	82
Sophomores	42	0	42
Freshmen	71	2	73
Adult Specials, Third Year..	1	0	1
Adult Specials, Second Year.	1	0	1
Adult Specials, First Year...	2	1	3
	417	17	434

Middle Course:			
Second Year	13	0	13
First Year	21	0	21
Adult Specials, First Year...	1	0	1
	35	0	35

Home Economics Course:			
Fellows	0	1	1
Graduates	0	13	13
Seniors	0	84	84
Juniors	0	72	72
Sophomores	0	80	80
Freshmen	0	76	76
Adult Specials, Second Year.	0	1	1
	0	327	327

	Men		Women		Total
SCHOOL OF EDUCATION (included above):					
Graduates	1		1		2
Seniors	34		55		89
Juniors	9		19		28
Sophomores	2		1		3
Adult Specials, Third Year.	1		0		1
	(47)		(76)		(123)
LAW SCHOOL—					
Third Year	68		2		70
Second Year	49		2		51
First Year	99		3		102
Specials, Third Year	2		0		2
Specials, Second Year	4		0		4
Specials, First Year	9		1		10
		231		8	239
MEDICAL SCHOOL—					
Second Year	62		6		68
First Year	77		11		88
		139		17	156
SCHOOL OF MUSIC—					
Four Year Course:					
Seniors	0		9		9
Juniors	1		8		9
Sophomores	1		13		14
Freshmen	4		32		36
Two Year Course:					
Second Year	0		12		12
First Year	0		26		26
Adult Specials, Second Year.	1		1		2
Adult Specials, First Year..	0		2		2
Unclassified Students	4		13		17
		11		116	127
SCHOOL OF EDUCATION (included above):					
Four Year Course:					
Juniors	0		3		3
Sophomores	0		2		2
Freshmen	0		2		2
Two Year Course					
Second Year	0		9		9
First Year	0		19		19
Adult Specials, First Year..	0		1		1
	0		(36)		(36)

	Men	Women	Total
Students in other schools and colleges electing music — 125. Graduates, 6; seniors, 31; juniors, 36; sophomores, 31; freshmen, 21.			
WISCONSIN LIBRARY SCHOOL—			
Library Course	0	34	34
Joint Course	1	3	4
	1	37	38
Grand Total, Regular Year	5,161	3,118	8,279
Twice Counted	182	21	203
Net Total, Regular Year	4,979	3,097	8,076
The item of 203 students twice counted occurs because of double classification in two colleges or schools as follows:			
Letters and Science and Medicine	139	17	156
Letters and Science and Law	42	1	43
Letters and Science and Wisconsin Library School	1	3	4
	182	21	203
SUMMER SESSION OF 1923—			
College of Letters and Science:			
Graduate Students	399	378	777
Undergraduates and Teachers	1,076	1,978	3,054
College of Engineering:			
Graduate Students	7	0	7
Undergraduates and Teachers	296	1	297
College of Agriculture:			
Graduate Students	76	33	109
Undergraduates and Teachers	84	188	272
Law School	107	5	112
School of Music	6	56	62
(Students in other colleges and schools electing music —71.)			
	2,051	2,639	4,690

	Men		Women		Total	
Deducting students in attendance during the regular year 1923–24	856		444		1,300	
		1,195		2,195		3,390
The 1,300 students in attendance during the regular year are classified as follows:						
College of Letters and Science:						
Graduate Students	95		47		142	
Undergraduates and Teachers	382		328		710	
College of Engineering:						
Graduate Students	4		0		4	
Undergraduates and Teachers	238		0		238	
College of Agriculture:						
Graduate Students	38		3		41	
Undergraduates and Teachers	48		53		101	
Law School	49		4		53	
School of Music	2		9		11	
	856		444		1,300	
ADDITIONAL ENROLLMENT—						
College of Agriculture:						
Short Course:						
Second Year	93		0		93	
First Year	85		0		85	
	178		0		178	
Deducting students in attendance during the regular year 1923–24	1		0		1	
	177		0		177	
Winter Dairy Course	80		0		80	
		257		0		257
FEDERAL BOARD STUDENTS RECEIVING VOCATIONAL EDUCATION—						
College of Letters and Science:						
Graduate Students	2		0		2	
Undergraduates	60		1		61	
College of Engineering:						
Graduate Students	1		0		1	
Undergraduates	41		0		41	
College of Agriculture:						
Graduate Students	5		0		5	
Undergraduates	24		0		24	
Short Course	1		0		1	

	Men	Women	Total	
Law School	12	0	12	
School of Medicine	4	0	4	
	150	1	151	
Deducting twice counted	116	0	116	
	34	1		35
Grand Net Total—Excluding Extension Students	6,465	5,293		11,758

The 116 Federal Board Students twice counted are included above in the number of students for the regular year or short course, and are classified as follows:

College of Letters and Science:			
Graduate Students	2	0	2
Undergraduates	46	0	46
College of Engineering:			
Graduate Students	1	0	1
Undergraduates	30	0	30
College of Agriculture:			
Graduate Students	5	0	5
Undergraduates	17	0	17
Law School	11	0	11
School of Medicine	4	0	4
	116	**0**	**116**
EXTENSION DIVISION (EXTRA-MURAL COLLEGE)—			
Correspondence – Study Department	12,810	7,205	20,015

This total enrollment comprised 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, 1923, 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
Regular Year, Summer Session only, Federal Board, and Short and Dairy Courses

SUMMARY BY STATES, FOREIGN COUNTRIES, AND SEX

Regular Year, Summer Session only, Federal Board, and Short and Dairy Courses

	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Total Different Students		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
1 Wisconsin	3,722	1,975	602	832	25	1	232	0	4,581	2,808	7,389
2 Illinois	400	374	129	341	6	0	14	0	549	715	1,264
3 Indiana	102	74	66	121	0	0	0	0	168	195	363
4 Missouri	41	59	45	157	0	0	0	0	86	216	302
5 Michigan	62	95	36	100	1	0	0	0	99	195	294
6 Iowa	88	81	30	82	0	0	1	0	119	163	282
7 Ohio	44	62	40	134	0	0	1	0	85	196	281
8 Minnesota	62	54	17	57	2	0	0	0	81	111	192
9 Kansas	15	24	22	58	0	0	1	0	38	82	120
10 New York	36	31	15	25	0	0	0	0	51	56	107
11 Pennsylvania	21	26	12	37	0	0	0	0	33	63	96
12 South Dakota	34	22	12	13	0	0	0	0	46	35	81
13 Kentucky	17	16	11	30	0	0	0	0	28	46	74
14 Nebraska	11	20	7	28	0	0	0	0	18	48	66
15 Texas	12	15	10	15	0	0	0	0	22	30	52
16 North Dakota	14	14	6	12	0	0	0	0	20	26	46
17 Massachusetts	16	17	6	5	0	0	0	0	22	22	44
18 Oklahoma	8	9	5	18	0	0	0	0	13	27	40
19 California	15	12	3	9	0	0	0	0	18	21	39
20 Colorado	14	16	3	6	0	0	0	0	17	22	39
21 Montana	17	7	6	8	0	0	0	0	23	15	38
22 Tennessee	4	8	8	18	0	0	0	0	12	26	38
23 New Jersey	6	11	6	12	0	0	0	0	12	23	35
24 Louisiana	3	6	11	7	0	0	0	0	14	13	27
25 West Virginia	4	1	6	15	0	0	0	0	10	16	26
26 Alabama	9	2	5	7	0	0	0	0	14	9	23
27 District of Columbia	9	8	1	4	0	0	0	0	10	12	22
28 Mississippi	7	3	2	9	0	0	0	0	9	12	21
29 Washington	7	7	3	3	0	0	0	0	10	10	20
30 Connecticut	9	0	7	3	0	0	0	0	16	3	19
31 Arkansas	3	3	4	6	0	0	0	0	7	9	16
32 Oregon	10	3	2	0	0	0	0	0	12	3	15

SUMMARY BY STATES, FOREIGN COUNTRIES AND SEX—Continued
Regular Year, Summer Session Only, Federal Board, and Short and Dairy Courses

	Regular Year		Summer Session		Federal Board		Short and Dairy Courses		Total Different Students		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Total
33 Maryland	2	6	2	4	0	0	0	0	4	10	14
34 Idaho	11	1	1	0	0	0	0	0	12	1	13
35 Utah	6	2	1	3	0	0	0	0	7	5	12
36 Virginia	4	2	3	0	0	0	2	0	9	2	11
37 Florida	6	2	1	0	0	0	1	0	8	2	10
38 Georgia	1	3	4	0	0	0	1	0	6	3	9
39 North Carolina	2	2	3	1	0	0	1	0	6	3	9
40 New Hampshire	2	2	1	0	0	0	0	0	3	2	5
41 Rhode Island	1	1	2	1	0	0	0	0	3	2	5
42 Arizona	0	2	0	2	0	0	0	0	0	4	4
43 New Mexico	2	0	1	1	0	0	0	0	3	1	4
44 South Carolina	3	0	0	0	0	0	0	0	3	0	3
45 Vermont	2	0	0	1	0	0	0	0	2	1	3
46 Wyoming	2	0	1	0	0	0	0	0	3	0	3
47 Delaware	0	0	1	1	0	0	0	0	1	1	2
48 Maine	0	2	0	0	0	0	0	0	0	2	2
Total, United States	4,866	3,080	1,159	2,186	34	1	254	0	6,313	5,267	11,580
1 China	42	2	15	0	0	0	0	0	57	2	59
2 Canada	16	4	6	3	0	0	0	0	22	7	29
3 Philippine Islands	11	1	2	0	0	0	0	0	13	1	14
4 Japan	8	1	3	0	0	0	0	0	11	1	12
5 India	5	0	1	1	0	0	0	0	6	1	7
6 France	0	6	0	0	0	0	0	0	0	6	6
7 Hawaii	3	0	1	2	0	0	0	0	4	2	6
8 Mexico	5	0	0	1	0	0	0	0	5	1	6
9 Argentina	3	0	1	0	0	0	1	0	5	0	5
10 Norway	1	0	3	0	0	0	0	0	4	0	4
11 Alaska	2	0	0	1	0	0	0	0	2	1	3
12 South Africa	2	0	1	0	0	0	0	0	3	0	3
13 Czecho-Slovakia	1	0	1	0	0	0	0	0	2	0	2

14 England	0	1	0	1	0	0	0	0	0	2	2
15 Persia	2	0	0	0	0	0	0	0	2	0	2
16 Peru	2	0	0	0	0	0	0	0	2	0	2
17 Sweden	0	0	1	0	0	0	1	0	2	0	2
18 Belgium	1	0	0	0	0	0	0	0	1	0	1
19 Brazil	1	0	0	0	0	0	0	0	1	0	1
20 Bulgaria	1	0	0	0	0	0	0	0	1	0	1
21 Denmark	0	0	0	0	0	0	1	0	1	0	1
22 Latvia	0	1	0	0	0	0	0	0	0	1	1
23 New Zealand	1	0	0	0	0	0	0	0	1	0	1
24 Paraguay	0	0	1	0	0	0	0	0	1	0	1
25 Porto Rico	0	1	0	0	0	0	0	0	0	1	1
26 Roumania	1	0	0	0	0	0	0	0	1	0	1
27 Russia	1	0	0	0	0	0	0	0	1	0	1
28 Siam	1	0	0	0	0	0	0	0	1	0	1
29 Spain	1	0	0	0	0	0	0	0	1	0	1
30 Switzerland	1	0	0	0	0	0	0	0	1	0	1
31 Turkey	1	0	0	0	0	0	0	0	1	0	1
Total, Countries outside the United States	113	17	36	9	0	0	3	0	152	26	178
Total, Wisconsin	3,722	1,975	602	832	25	1	233	0	4,582	2,808	7,390
Total, Other States	1,144	1,105	557	1,354	9	0	21	0	1,731	2,459	4,190
Grand Total	4,979	3,097	1,195	2,195	34	1	257	0	6,465	5,293	11,758

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